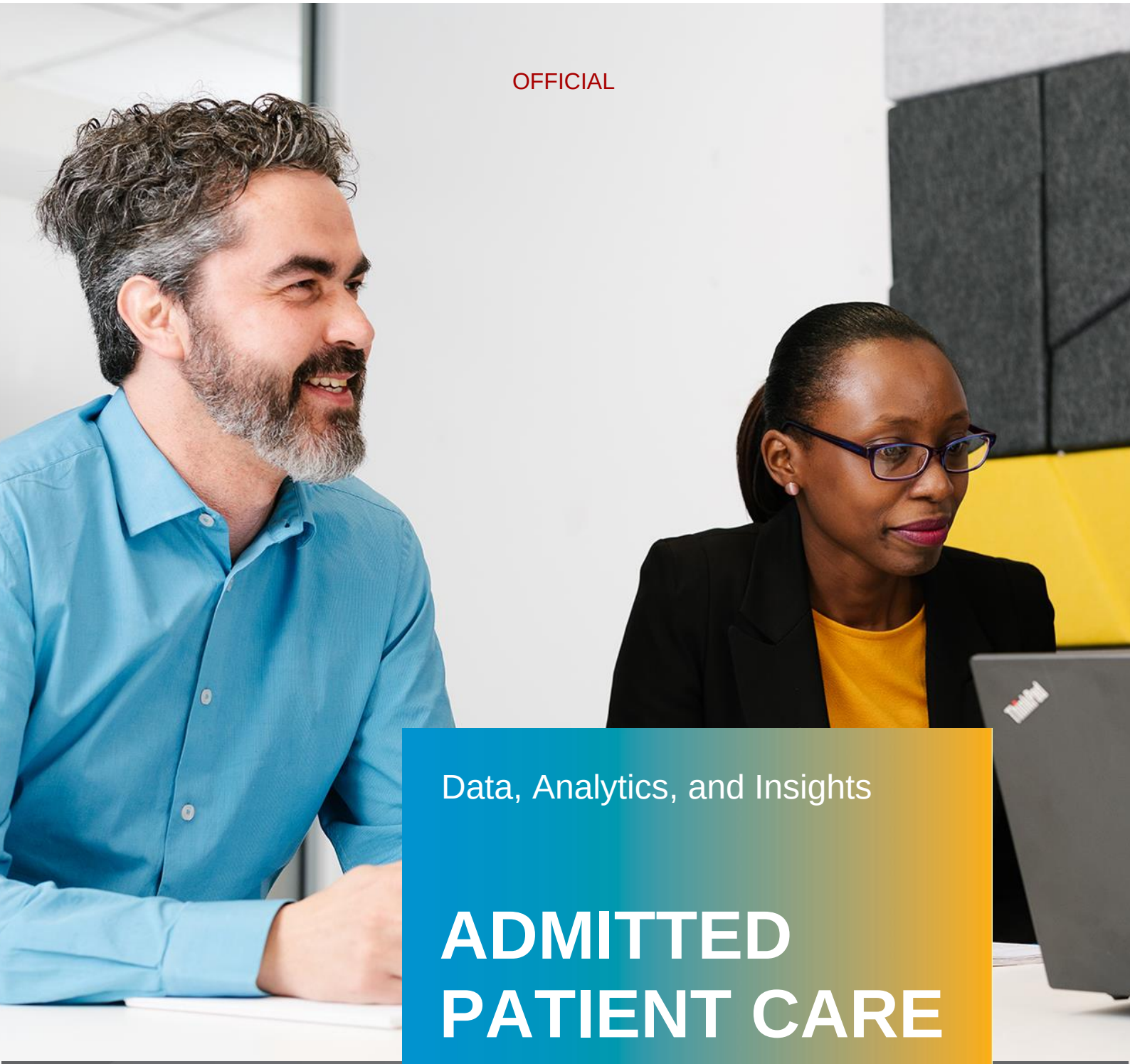

Data, Analytics, and Insights

ADMITTED PATIENT CARE

Data Quality Checks 2024 - 2025

Date: September 2024

Government of South Australia
SA Health

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4075: [Additional Diagnosis] of (Z511 or Z2921) and not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date] 273

4080: [Principal Diagnosis] or [Additional Diagnosis] of (F0000-F0091) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (G300-G309) 274

4081: [Sex] not (1, 2, or 3) 276

4085: [Principal Diagnosis] of (Z510) NOT COMPATIBLE WITH [Admission Date] <> [Separation Date] 277

4086: [Additional Diagnosis] of (U060) NOT COMPATIBLE WITH [Additional Diagnosis] of (B342 or B972) 278

4087: [Additional Diagnosis] of (U0770-U0774) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (T800-T809) 279

4090: [Procedure] from (4178900, or 4178901) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (J030-J039) 280

4091: [Principal Diagnosis] or [Additional Diagnosis] of (J450-J459, or J46) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] (J450-J459, or J46) 281

4095: [Additional Diagnosis] of (Z510) and not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date] 282

4105: [Additional Diagnosis] of (Z491, or Z492) and not (Z530-Z539) SHOULD BE [Principal Diagnosis] when Length of stay = 1 day 283

4110: [Additional Diagnosis] of (A090-A099, or K520-K529) SHOULD BE [Principal Diagnosis] with [Additional Diagnosis] of (E86) 284

4115: [Principal Diagnosis] of (Z491, or Z492) NOT COMPATIBLE WITH Length of stay of (> 1 day) 285

4121: [Type Of Usual Accommodation] of (C) NOT COMPATIBLE WITH [Nature Of Separation] of (3) UNLESS patient moving to respite care 286

4125: [Principal Diagnosis] or [Additional Diagnosis] of (Z491, or Z492) REQUIRES [Additional Diagnosis] of (Z530-Z539) or [Procedure] from (Block 1060, or Block 1061) 287

4130: [Principal Diagnosis] or [Additional Diagnosis] of (Z490-Z492) DOES NOT REQUIRE [Additional Diagnosis] of (Z992) 289

4140: [Principal Diagnosis] or [Additional Diagnosis] of (S0600, or S099) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (S0601-S0604) 290

4145: [Principal Diagnosis] or [Additional Diagnosis] of (C770-C799) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (C000-C768, or C800-C809) 291

4146: [Principal Diagnosis] or [Additional Diagnosis] of (C770-C809) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (C810-C8891) 292

4160: Length of Stay of (> 92 days), and [Admission Type] in (2, or 3) 294

4165: [Hospital Number] of (< 4000), [Episode Of Care] of (5, or 6), [Date Of Birth] = [Admission Date], and [Source Of Referral] not (4, X) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (Z380-Z388) 295

4170: Length of stay of (> 1 day), and [Hospital Number] in system reference table where [Day Hospital] of (1) 296

4175: Length of stay of (> 9999 days) 297

4180: Age at admission of (> 100 years) 298

4185: [Principal Diagnosis] or [Additional Diagnosis] of (O000-O079, O200, O470, O600-O603, or O364) REQUIRES [Additional Diagnosis] of (O090-O099) 299

4190: [Marital Status] not (1, 2, 3, 4, 5, or 9), and Age at admission of (>= 16 years) 301

4190A: [Marital Status] not (1, 2, 3, 4, 5, or 9), and Age at admission of (< 16 years) 302

4195: [Additional Diagnosis] of (Z370-Z379) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z3900-Z392) 303

4200: [Principal Diagnosis] of (Z312) REQUIRES [Procedure] from (Block 1297) 304

4201: [Principal Diagnosis] of (Z310-Z313), and [Additional Diagnosis] not (Z530-Z539) REQUIRES [Procedure] 305

4202: [Procedure] from (Block 1243) NOT COMPATIBLE WITH [Procedure] from (Block 1268, or Block 1269) 306

4203: [Principal Diagnosis] of (Z5181), and [Additional Diagnosis] not (Z530-Z539) REQUIRES [Admission Date] = [Separation Date] 307

4204: [Additional Diagnosis] of (Z5181), and [Additional Diagnosis] not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date] 308

4205: [Indigenous Status] of (1, 2, or 3) NOT COMPATIBLE WITH [Country Of Birth] of (<= 1100, >= 1199, and <> 1302) 309

4206: [Indigenous Status] changed from/to (1, 2, 3, or 4) since last admission record 310

4210: [Hospital Insurance] not (1, 2, or 9) 313

4215: [Postcode] and [Statistical Local Area] combination not in system reference table DEFAULTS [Statistical Local Area] to first lookup value for postcode 314

4220: [Legal Status] not (1, 2, 3 or 4) 315

4225: [Principal Diagnosis], [Additional Diagnosis], or [External Cause] contains [Diagnosis] in system reference table with [Rare Diagnosis] of (1) 316

4230: [Referral For Further Health Care] not (01, 02, 03, 04, 05, 06, 07, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, or 99) 318

4235: [Principal Diagnosis] or [Additional Diagnosis] of (I500, or I501) DOES NOT REQUIRE [Additional Diagnosis] of (I500, or I501) 320

4236: [Procedure] from (Block 1856, or 3821300) DOES NOT REQUIRE [Procedure] from (Block 650, Block 653, Block 655, or Block 656) 321

4237: [Principal Diagnosis] or [Additional Diagnosis] of (Z450) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z950) 323

4240: [Nature Of Separation] of (2, 5, 6, 7, or E), and [Referral For Further Health Care] not (01) 324

4245: [Principal Diagnosis] or [Additional Diagnosis] of (I500, or J81) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] (I500, or J81) 325

4246: [Principal Diagnosis] of (I501, or J81) DOES NOT REQUIRE [Additional Diagnosis] of (I501, or J81) 327

4250: [Hospital Transferred To] not in system reference table 329

4255: [Episode Of Care] of (4, or 7) INCOMPATIBLE WITH [Principal Diagnosis] of (Z500-Z501, or Z504-Z509) 330

4260: [Hospital Transferred To] not blank and [Nature Of Separation] not (2, 7, or X) 331

4265: [Episode Of Care] of (4) REQUIRES [Procedure] from (Block 1916) 332

4270: [Nature Of Separation] of (2, 7, or X) REQUIRES [Hospital Transferred To] 334

4275: [Procedure] of (3001001) REQUIRES [Procedure] from (9251400-9251499, or 9251500-9251599) 335

4276: [Additional Diagnosis] of (T203, T2130-T2139, T2230-T2232, T233, T243, T253, T293, or T303) MUST BE SEQUENCED BEFORE [Principal Diagnosis] of (T200-T202, T2100-T2129, T2200-T2222, T230-T232, T240-T242, T250-T252, T290-T292, or T300-T302) 337

4280: [Hospital Transferred To] = [Hospital Number] 339

4285: [Principal Diagnosis] or [Additional Diagnosis] of (T200-T253, T290-T293, or L550-L559) REQUIRES [Additional Diagnosis] of (T3100-T3199) 340

4290: [Hospital Transferred From] not in system reference table 342

4295: [Additional Diagnosis] of (T3100-T3199) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (T200-T253, T290-T293, or L550-L559) 343

4300: [Hospital Transferred From] is not blank and [Source Of Referral] not (4, or X) 345

4305: [Principal Diagnosis] or [Additional Diagnosis] of (T360-T509) NOT COMPATIBLE WITH [External Cause] or [Additional Diagnosis] of (Y400-Y599) 346

4310: [Hospital Transfer From] is blank and [Source Of Referral] of (4) 348

4315: [Principal Diagnosis] or [Additional Diagnosis] (R400-R402) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] (S0000-S099) 349

4320: [Hospital Transferred From] = [Hospital Number] 350

4321: [Referral For Further Health Care] of (08) is INVALID 351

4340: Age at admission of (> 365 days), and [Admission Weight] not blank and not of (0000) .. 352

4341: [Admission Weight] of (> 499 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0701) 353

4342: [Admission Weight] of (< 500, or > 749 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0702) 354

4343: [Admission Weight] of (< 750, or > 999 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0703) 355

4344: [Admission Weight] of (< 1000, or > 1249 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0711) 356

4346: [Admission Weight] of (< 1250, or > 1499) grams NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0712) 357

4347: [Admission Weight] of (< 1500, or > 2499 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0713) 358

4350: [Admission Weight] of (< 400 grams) 359

4355: [Hours on Mechanical Ventilation] of (0, or > 24 hours) NOT COMPATIBLE WITH [Procedure] from (1388200) 360

4360: [Admission Weight] of (> 6000 grams) 361

4365: [Hours on Mechanical Ventilation] of (< 24, or > 95 hours) NOT COMPATIBLE WITH [Procedure] from (1388201) 362

4370: [Clinical Unit] not in system reference table 363

4375: [Hours on Mechanical Ventilation] of (< 96 hours) NOT COMPATIBLE WITH [Procedure] from (1388202) 364

4380: [Medicare Number] of invalid format 365

4382: [Medicare Number IRN] not (1, 2, 3, 4, 5, 6, 7, 8, or 9), and [Medicare Number] not blank and not (0000000000, or 0000000009) 366

4382A: [Medicare Number IRN] not (0), and [Medicare Number] of (0000000000, or 0000000009) 367

4385: Admitted Patient Care Hours on Mechanical Ventilation not compatible with CVS codes 368

4390: [Patient Category] not (1, 2, or 4), and [Admission Date] <> [Separation Date] 369

4390A: [Patient Category] not (1, 2, or 4), and [Admission Date] = [Separation Date] 370

4395: [Indigenous Status] (not 1, 2, 3, 4, or 9) 371

4396: [Indigenous Status] of (1, 2, or 3) NOT COMPATIBLE WITH [Funding Source] of (07, or 08) 372

4400: [Admission Category] not (1, 2, 3, or 4) 373

4405: [Admission Category] not (3) INCOMPATIBLE WITH [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, or 0030) 374

4410: [Admission Election] not (2), and [Hospital Number] of (>= 4000) 375

4410A: [Admission Election] not (1), and [Hospital Number] of (< 4300) 376

4415: [Admission Category] not (4) INCOMPATIBLE WITH [Source Of Referral] of (A, or E) ... 377

4420: [Admission Type] not (1, 2, or 3) 378

4425: [Hospital Number] of (>= 4302), and [Principal Diagnosis] contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of (1) = Unacceptable Principal Diagnosis 379

4426: [Hospital Number] of (>= 4302), and [Principal Diagnosis] or [Additional Diagnosis] contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of (2) = Unacceptable Diagnosis 380

4430: [Principal Diagnosis] of (N320) and [Additional Diagnosis] of (N40) MUST BE [Principal Diagnosis] of (N40) and [Additional Diagnosis] of (N320) 381

4435: [Principal Diagnosis] of (L8900, L8910, L8920, L8930, L894, L895, L896, L897, L898, or L8990) INCOMPATIBLE WITH [Additional Diagnosis] of (L8900, L8910, L8920, L8930, L894, L895, L896, L897, L898, or L8990) 382

4440: [Principal Diagnosis] or [Additional Diagnosis] of (E1011–E149) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (R73) 383

4450: [Status Change Election] not (0, 1, or 2) 384

4460: [Status Change Type] not (0, 1, 2, or 3) 385

4470: [Status Change Effective Date] of invalid format 386

4474: [Status Change Election] same as [Admission Election], or [Status Change Type] same as [Admission Type] 387

4480: [Status Change Type] of (1, 2, or 3), [Status Change Effective Date] is valid date, and [Status Change Election] of blank 389

4490: [Status Change Election] of (1, or 2), and [Status Change Effective Date] is valid date, and [Status Change Type] 390

4500: [Status Change Election] of (1, or 2), [Status Change Type] of (1, 2, or 3), and [Status Change Effective Date] of blank 391

4505: [Sex] of (3) NOT COMPATIBLE WITH Age at separation of (> 90 days) 392

4506: [Sex] changed since last admission record 393

4510: [Admission Number] of blank, or not numeric 395

4520: [Veteran Card Number] REQUIRED 396

4521: [Funding Source] changed from/to (4) and not (4) since last admission record 397

4530: [Veteran Card Type] of blank, and [Veteran Card Number] is valid 399

4540: [Veteran Card Type] not (G, W or N), and [Veteran Card Number] is valid 400

4551: [Procedure] from (2200700, 2200800, 9017902, 9203500, or 9203501) NOT COMPATIBLE WITH [Procedure] from (Block 569, or Block 570) 401

4552: [Procedure] from (2200701, 2200801, or 9017906) NOT COMPATIBLE WITH [Procedure] from (Block 569) 402

4553: [Procedure] from (9017905) NOT COMPATIBLE WITH [Procedure] from (Block 570) 403

4560: [Contracted Service Hospital Number] = [Hospital Number], or [Contracted Service Hospital Number] not in system reference table 404

4561: [Source Of Referral] not (7) and [Contracted Service Hospital Number] not in system reference table, [Contract Hospital Patient Unit Record Number] of (0000000000), or [Contracted Service Admission Date] is not a valid date 405

4562: [Source Of Referral] of (7) REQUIRES [Contracted Service Hospital Number] 406

4570: [Contracted Service Hospital Number] = [Hospital Number] AND [Contracted Service Patient Unit Record Number] = [Patient Unit Record Number] 407

4571: [Contracted Service Patient Unit Record Number] is invalid 408

4580: [Contracted Service Admission Date] is an invalid date, [Contracted Service Admission Date] < [Admission Date], or [Contracted Service Admission Date] > [Separation Date] 409

4580A: [Contracted Service Admission Date] of (00000000) and [Contracted Service Hospital Number] of not blank DEFAULTS [Contracted Service Admission Date] to blank 410

4600: [Principal Diagnosis] or [Additional Diagnosis] of (E0921-E099) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (E1001-E149) 411

4610: [Leave From Date] is valid, and [Leave From Time] is an invalid time or blank 413

4620: [Leave To Date] is valid, and [Leave To Time] is an invalid time or blank 414

4625: Length of leave of (> 7 consecutive days) NOT COMPATIBLE WITH [Legal Status] not (1) 415

4630: [Unplanned Readmission] not (1, 2, or 3) DEFAULTS [Unplanned Readmission] to (3) 416

4640: [Hospital Number] not (0300), and [Mental Health Linking Number] = [Patient Unit Record Number] or is invalid format 417

4641: [Clinical Unit] of (78, 79, 80, 85, 86, or 95), or [Principal Diagnosis] in system reference table with [Mental Health Diagnosis Flag] of (Y) REQUIRES [Episode Of Care] of (I, J, K, or L) 418

4643: [Episode Of Care] of (I, J, K, or L) REQUIRES [Clinical Unit] of (78, 79, 80, 85, 86, or 95), or [Principal Diagnosis] in system reference table with [Mental Health Diagnosis Flag] of (Y) ... 419

4648: [Principal Diagnosis] of (Z718) DOES NOT REQUIRE [Additional Diagnosis] of (E1001-E149) ... 420

4649: [Principal Diagnosis] of (E1001-E149) and [Additional Diagnosis] of (Z718) REQUIRES [Procedure] from (9555014) ... 421

4650: [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1100-E1199, E1300-E1399, E1400-E1499, or O2440-O2449) ... 422

4651: [Principal Diagnosis] or [Additional Diagnosis] of (E1100-E1199) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1300-E1399, E1400-E1499, or O2440-O2449) ... 424

4652: [Principal Diagnosis] or [Additional Diagnosis] of (E1300-E1399) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1100-E1199, E1400-E1499, or O2440-O2449) ... 426

4653: [Principal Diagnosis] or [Additional Diagnosis] of (E1400-E1499) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1100-E1199, E1300-E1399, or O2440-O2449) ... 428

4654: [Principal Diagnosis] or [Additional Diagnosis] of (O2440-O2449) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1100-E1199, E1300-E1399, or E1400-E1499) ... 430

4655: [Principal Diagnosis] or [Additional Diagnosis] of (S1410-S1413) REQUIRES [Additional Diagnosis] from (S1470-S1478, or S2470-S2477) ... 432

4656: [Principal Diagnosis] or [Additional Diagnosis] of (S2410-S2412) REQUIRES [Additional Diagnosis] of (S2470-S2477, or S3470-S3476) ... 433

4657: [Principal Diagnosis] or [Additional Diagnosis] of (S341) REQUIRES [Additional Diagnosis] of (S3470-S3476) ... 434

4658: Mic'surg Anastomo's code required + free flap ... 435

4659: [Procedure] from (Block 1907) REQUIRES [Procedure] from (9251410-9251599) ... 436

4660: [Additional Diagnosis] of (Z8610 – Z8618) NOT COMPATIBLE WITH [Additional Diagnosis] of (U073 or U074) ... 437

4661: [Additional Diagnosis] of (I698, or Z479) and [Hospital Number] of (0001-0500) NOT COMPATIBLE WITH [Principal Diagnosis] of (Z500-Z501, or Z504-Z509) ... 438

4662: [Additional Diagnosis] of (B230, R75, or Z21) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (B20, B21, B22, B238, B24, R75, or Z21) ... 439

4663: [Additional Diagnosis] of (B230, R75, or Z21) NOT COMPATIBLE WITH [Additional Diagnosis] of (B20, B21, B22, B238, or B24) ... 440

4664: [Principal Diagnosis] or [Additional Diagnosis] of (B21) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (C000-C969) ... 441

4665: [Principal Diagnosis] of (Z080-Z089) NOT COMPATIBLE WITH [Additional Diagnosis] of (C000-C969) ... 443

4666: [Principal Diagnosis] of (O040-O049) IS RARE WITH [Additional Diagnosis] of (O093, or O094) 444

4667: [Principal Diagnosis] of (I460-I469) SHOULD NOT BE [Principal Diagnosis] if the underlying cause is known 445

4668: [Principal Diagnosis] or [Additional Diagnosis] of (D683, or R7983) DOES NOT REQUIRE [Additional Diagnosis] of (Z921) 446

4669: [Principal Diagnosis] or [Additional Diagnosis] of (B150-B199, or O984) DOES NOT REQUIRE [Additional Diagnosis] of (B942) 448

4670: [Hospital Number] of (0003) REQUIRES [Adult / Child Flag] of (C, or O) 449

4680: [Hospital Number] of (0003) REQUIRES [Adult / Child Flag] of (C, or O) 450

4690: [Date Of Birth] is INVALID or missing) 451

4690: [Date Of Birth] INVALID 453

4691: [Date Of Birth] changed since last admission record 454

4691: [Date Of Birth] INVALID 456

4700: [Admission Time] of (2400) DEFAULTS [Admission Time] to (0000), and [Admission Date (data item 21) to ([Admission Date] + 1) 457

4710: Length of stay of (> 1 year) 458

4715: [Interpreter Required] not (1, 2, 3, 4, 5, or 9) 459

4720: [Mental Health Accommodation Prior] not (00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 or 24) 460

4725: [Preferred Language] not in system reference table 462

4730: [Adult / Child Flag] not blank, and [Hospital Number] not (0003, or 0296) 463

4735: [Religious Affiliation] not in system reference table 464

4740: [Source Of Referral] of (E) or [Nature Of Separation] of (E) NOT COMPATIBLE WITH [Hospital Number] of (>= 4000 and <= 4999) 465

4755: [Previous Specialised Treatment] not (0, 1, 2, 3, 4, 5, or blank) 466

4760: [Employment status] not (0, 1, 2, 3, 4, 5, 6, or 9) 467

4770: [Pension Status] not (0, 5, or 9) 468

4780: [Type Of Usual Accommodation] not (1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, H, M, N, O, P, R, S or Y), and [Hospital Number] of <4000 469

4789: [Date Of Birth Accuracy Flag] not (2), and [Date Of Birth] = 01-Jul-1890 471

4790: [Date Of Birth Accuracy Flag] not (1, or 2) 472

4791: [Additional Diagnosis] of (Z940) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N183, N184, N185, or I120) 473

4792: **INACTIVE from 1/7/10 - for details contact health.dataanalyticsandinsights@sa.gov.au** 474

4793: [Principal Diagnosis] or [Additional Diagnosis] of (I129, I130, or I139) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N181-N184, or N189) 475

4794: [Additional Diagnosis] of (Z992) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N185, or I120) 476

4795: [Principal Diagnosis] or [Additional Diagnosis] of (I120, or I131) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (N181-N189) 478

4796: [Principal Diagnosis] or [Additional Diagnosis] of (N185) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (I129, I130, or I139) 479

4800: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in system reference table with [Sex Flag] of (1) for [Principal Diagnosis] or [Additional Diagnosis] 480

4810: Age at admission NOT COMPATIBLE WITH [Age Range] in system reference table for [Principal Diagnosis] 481

4811: [External Cause] or [Additional Diagnosis] of (Y900-Y908) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (F100-F102, or T510) 482

4812: [Principal Diagnosis] or [Additional Diagnosis] of (F101) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F102-F109) 484

4814: [Principal Diagnosis] or [Additional Diagnosis] of (F111) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F112–F119) 485

4816: [Principal Diagnosis] or [Additional Diagnosis] of (F121) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F122–F129) 486

4818: [Principal Diagnosis] or [Additional Diagnosis] of (F171) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F172–F179) 487

4819: [Principal Diagnosis] or [Additional Diagnosis] of (F171, or F172) DOES NOT REQUIRE [Additional Diagnosis] of (Z587, Z720, or Z8643) 488

4819A: [Additional Diagnosis] of (Z8643, or Z720) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z587) 490

4820: [Sex] from patient record NOT COMPATIBLE WITH, [Sex] in system reference table with [Sex Flag] of (1) for [Procedure] 491

4822: [Episode Of Care] of (7) and [Source Of Referral] of (A) REQUIRES [Principal Diagnosis] of (Z500-Z509, or Z519) 492

4824: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Source Of Referral] not (A) and [Principal Diagnosis] of (Z519) 493

4830: Age at admission NOT COMPATIBLE WITH [Age Range] in system reference table for [Procedure] 494

4832: Principal [Procedure] contains [Procedure] in system reference table with [Unacceptable First Procedure Flag] of (Y), or Principal [Procedure] of (9623100, 9623300, or 9623400), and [Additional Diagnosis] not Z533 495

4833: [Procedure] from (Block 451, Block 1940-1941, Block 1943-2016, and not 3068800) WITHOUT [Procedure] from (9251410-9251599), delete Radiological procedure 496

4834: [Principal Diagnosis] or [Additional Diagnosis] of (D63) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (A188, A527, B54, B700, B769, or E039) 498

4840: [Principal Diagnosis] or [Additional Diagnosis] is [Diagnosis] in system reference table with [External Cause Flag] of (Y) REQUIRES [External Cause] 499

4860: [Activity When Injured] of (U5000-U739) REQUIRES [External Cause] 500

4870: [Activity When Injured] of (U5000-U739), and [Additional Diagnosis] or [External Cause] not (V0000-Y34) 501

4880: [External Cause] of (V0000-Y34), and [Activity When Injured] not (U5000-U739) 503

4885: [Additional Diagnosis] of (V0000-Y34) REQUIRES [Additional Diagnosis] or [Activity When Injured] of (U5000-U739) 504

4890: [Principal Diagnosis] or [Additional Diagnosis] of (O601-O603, O620-O879, or O900-O909), or [Procedure] from (Block 1336–1340, Block 1343-1344, Block 1346-1347) REQUIRES [Additional Diagnosis] from (Z370-Z379, or Z3900-Z392) 506

4890A: [Principal Diagnosis] or [Additional Diagnosis] of (O601-O603, O620-O879, or O900-O909), or [Procedure] from (1656400-1656401, or 9047102-9047106) REQUIRES [Additional Diagnosis] from (Z370-Z379, or Z3900-Z392) 508

4891: [Principal Diagnosis] or [Additional Diagnosis] of (O600) DOES NOT REQUIRE [Additional Diagnosis] of (Z370-Z379) 510

4892: [Principal Diagnosis] or [Additional Diagnosis] of (O600) DOES NOT REQUIRE [Additional Diagnosis] of (Z3900-Z392) 511

4893: [Procedure] from (1657300, or 9048100) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O700-O709) 512

4895: [Principal Diagnosis] or [Additional Diagnosis] of (O700-O709) REQUIRES [Procedure] from (1657300, 9047200, or 9048100) 513

4896: [Hospital Number] not (0035) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z379) 514

4897: [Principal Diagnosis] or [Additional Diagnosis] of (O601-O759, O85-O879, or O900-O909) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O80-O849, or Z3900-Z3903) 515

4898: [Additional Diagnosis] of (Z370-Z379) REQUIRES [Principal Diagnosis] of (O040-O049, or O80-O849), or [Additional Diagnosis] of (O80-O849) 517

4900: Duplicate Diagnosis code from [Principal Diagnosis], [Additional Diagnosis], [External Cause], [Place Of Occurrence], and/or [Activity When Injured] DELETES duplicate Diagnosis code 518

4904: [Principal Diagnosis] or [Additional Diagnosis] of (O80, or O840) REQUIRES [Procedure] Code Block 1336 521

4905: [Principal Diagnosis] or [Additional Diagnosis] of (O757) NOT COMPATIBLE WITH [Procedure] from (1652000, 1652001, 1652002, 1652003, 1652004, or 1652005) 522

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CHANGE HISTORY

Document Version	Date	Updated By	Change Summary
1.0	07-Jul-22	Mark Hall, Manager Information Assembly	New 2296, 2511, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 4081, 4087, 4203, 4204 & 4426 Amended 1310, 2060, 2077, 2078, 2081, 2082, 2083, 2084, 2086, 2087, 2088, 2090, 2114, 2117, 2280, 2300, 2341, 2510, 2610, 2611, 2612, 2753, 2754, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4010, 4020, 4030, 4036, 4040, 4046, 4066, 4070, 4075, 4080, 4170, 4175, 4190, 4190A, 4210, 4220, 4225, 4230, 4240, 4250, 4260, 4280, 4290, 4300, 4310, 4320, 4340, 4370, 4380, 4382, 4382A, 4390, 4390A, 4395, 4400, 4410, 4410A, 4420, 4425, 4450, 4460, 4470, 4474, 4480, 4490, 4500, 4510, 4530, 4540, 4560, 4570, 4571, 4580, 4610, 4620, 4641, 4643, 4652, 4755, 4760, 4770, 4780, 4789, 4790, 4800, 4820, 4880, 4906, 4910, 4920, 4920A & 4960 Deactivated 2078, 2089, 2160 2161, 2162, 2295, 2757 & 4086
2.0	30-Sep-22	Mark Hall, Manager Information Assembly	Amended 4691, 4824, 4833, 4870, 4898
3.0	21-Dec-22	Mark Hall, Senior Quality Assurance Officer	Updated Periods of Leave appendix Amended 2585, 4662, 4670, 4690, 4730 & 4950 Deactivated 4663 & 4680
4.0	29-May-23	Mark Hall, Senior Quality Assurance Officer	New 4660 Amended 0990, 0991, 1000, 1010, 1020, 1030, 1040, 1060, 1100, 1110, 1130, 1150, 1190, 1300, 1340, 1350, 1360, 2753, 4030 Deactivated 2780

5.0	19-Jun-23	Mark Hall, Senior Quality Assurance Officer	New 4992 Amended 2170, 4013, 4220, 4230, 4720, 4780 Deactivated 2341
6.0	07-Mar-24	Chloe Earls, Data Quality Assurance Officer	New 4041 Amended 4013, 4780
6.1	30-June-24	Chloe Earls, Data Quality Assurance Officer	Amended 2080, 2085 Deactivated 4474

APPROVALS

This document is approved on the basis that it meeting the following acceptance criteria.

Document Endorsement

This document requires the following endorsement:

Version	Date	Name	Endorsed Yes/No?	Signature
1.0	5th September 2022	Anthony Fantasia A/Manager, Data Governance & Quality Assurance	Yes	AF
2.0	30th September 2022	Anthony Fantasia A/Manager, Data Governance & Quality Assurance	Yes	AF
3.0	21st December 2022	Anthony Fantasia Manager Data Governance and Quality Assurance	Yes	AF
4.0	30th May 2023	Anthony Fantasia Manager Data Governance and Quality Assurance	Yes	AF
5.0	30th June 2023	Anthony Fantasia Manager Data Governance and Quality Assurance	Yes	AF
6.0	06 March 2024	Anthony Fantasia Manager Data Governance and Quality Assurance	Yes	AF
6.1	30 June 2024	Anthony Fantasia Manager Data Governance and Quality Assurance	Yes	AF

EXECUTIVE SUMMARY

Background

Admitted Patient Care data quality checks are owned by two departments:

- DG&I: Data Governance and Integrity
- HIGU: Health Information Governance Unit

HIGU owned data quality checks are primarily concerned with clinical attributes (such as diagnoses and procedure codes), and are documented in the SA Morbidity Coding Standards. DG&I data quality checks are primarily concerned with internal consistency (such as valid dates, value domains, etc.), and are documented in the Admitted Patient Care Data Quality Checks Reference Manual.

Additional resources are available from:

https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/about+us/our+performance/our+data+collections/admitted+patient+care

Deactivated data quality checks

Data quality checks are to be set to inactive. The functionality is no longer applicable.

New data quality checks

New data quality checks have been implemented.

Code	Description
4041	[Principal Diagnosis] or [Additional Diagnosis] CONTAINS (Z01.9 or Z41.9)

Table 2: New data quality checks

Updated data quality checks

Data quality checks that have been reviewed and found to require updating because of changes in approved functionality.

Code	Description
4013	[Referral For Health Care] of (21 or 24) NOT COMPATIBLE WITH [Nature of Separation] of (1, or 3)
4078	[Type Of Usual Accommodation] not (1, 2, 3, 4, 5,6, 7, 8, A, B, C, D, H, M, N,O, P, R, S or Y), and [Hospital Number] < 4000

Table 3: Updated data quality checks

DATA QUALITY CHECKS

Types of checks

There are three classes of validations, commonly called Data Quality Checks

- **Rejected errors**: 0900 and 1000 series
- **Critical errors**: 2000 series
- **Non-critical warning messages**: 4000 series

Note: These error checks apply to both administrative data elements and clinical codes.

Rejected errors

All rejected errors must be reviewed by the hospital and may result in resubmission of the entire record; no data from a rejected record is loaded to the Admitted Patient Care domain.

Rejected errors are concerned with data elements which identify a specific Episode of Care:

- [Hospital Number]
- [Patient Unit Record Number]
- [Separation Date]
- [Separation Time]

Types of errors occurring in this group or class of error range are:

- Invalid values with any of the data items
- Logical errors between Admission & Separation Dates
- Submitting a record which already exists on the database

Critical errors

A critical error will arise when an invalid or inconsistent value is submitted for a data item that is required for one or more of the following:

- Assigning Australian Refined - Diagnostic Related Groups (AR-DRGs)
- Public Hospital Casemix Funding Model (CFM) calculation
- Establishing correct place of residence
- Establishing Veteran Affairs eligibility

Records that have a critical error are not assigned AR-DRGs (grouped) and are not extracted for the CFM. Consequently, all critical errors require prompt attention and correction so the record can be grouped accurately, included in the CFM and funded.

Critical Errors consist of:

- Invalid errors (where a reported value is not valid)
- Inconsistent reporting errors (where a reported value is inconsistent with another reported value).

Invalid errors include invalid data for:

- [Date Of Birth]
- [Admission Date]
- [Principal Diagnosis] / [Additional Diagnosis] / [Activity When Injured] / [External Cause] / [Place Of Occurrence] codes

- [Procedure] codes

Inconsistent reporting errors include:

- [Date Of Birth] after [Admission Date]
- [Admission Date] after [Separation Date]
- [Hours in ICU] greater than Length of Stay
- [Admission Time] greater than [Separation Time] (when [Admission Date] equals [Separation Date])

Non-critical warning messages

Non-critical warning message:

- Warning errors indicate that a reported value is unusual within the context of other information that has been provided for the record.

Upon review of these errors, no further action is required if the reported value is deemed acceptable. However, if that value is not deemed accepted, then generate a correction file to resubmit the record to the Admitted Patient Care domain.

Examples of non-critical errors:

- [Hospital Transferred To] not required
    - The value in [Hospital Transferred To] is queried because [Nature Of Separation] is neither 2 (Other hospital: Up) nor 7 (Other hospital: down)

Examples of warning errors:

- Age > 100 years
    - The age has been calculated to be over 100 years. Check that the patient's age is greater than 100 years.
- [Admission Weight] < 400 grams
    - Check that the [Admission Weight] is less than 400 grams.
- [Separation Date] > 1 year ago
    - Check that the [Separation Date] is more than 1 year ago.

Improving Errors

If you suspect that a data quality check is incorrect, or raising a large number of queries unnecessarily, please email the Data Governance and Integrity department via DataAnalyticsandInsights.sa.gov.au

Data Quality Checks

Data quality checks are explained in the section that follows.

The following background colours are used to identify status groups:

- Dark grey: Does not exist
- Light grey: Inactive
- Green: New
- Orange: Update

0990: Record with [Separation Date] & [Separation Time] for same [Patient Unit Record Number] and [Hospital Number] occurs multiple times in file

Pseudocode

```
IF
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
=
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
for another record for this patient in the file
THEN
        REJECT record
        PRINT error message 0990: Record with [Separation Date] & [Separation Time] for same
        [Patient Unit Record Number] and [Hospital Number] occurs multiple times in file
```

Status

Active.

Implementation

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

0991: Record with [Separation Date] & [Separation Time] for same [Patient Unit Record Number] and [Hospital Number] already exists in database

Pseudocode

```
IF
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
=
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
for another record for this patient in the database
THEN
        REJECT record
        PRINT error message 0991: Record with [Separation Date] & [Separation Time] for same
        [Patient Unit Record Number] and [Hospital Number] already exists in database
```

Status

Active.

Implementation

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1000: [Hospital Number] not in system reference table

Pseudocode

```
IF
       [Hospital Number] (data item 01) not in system reference table
THEN
       REJECT record
       PRINT error message 1000: [Hospital Number] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code in hc_Code
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1010: [Separation Date] format is INVALID

Pseudocode

```
IF
	[Separation Date] (data item 43) is an invalid date
THEN
	REJECT record
	PRINT error message 1010: [Separation Date] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.IsDDMMYYYY(Separation_Date_original,null,0) = 1
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1020: [Separation Date] < [Admission Date]

Pseudocode

```
IF
	[Separation Date] (data item 43) < [Admission Date] (data item 21)
THEN
	REJECT record
	PRINT error message 1020: [Separation Date] < [Admission Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
convert(date,separation_date,103) < convert(date,admission_date,103)
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1030: [Separation Time] < [Admission Time]

Pseudocode

```
IF
	[Separation Time] (data item 70) < [Admission Time] (data item 67)
THEN
	REJECT record
	PRINT error message 1030: [Separation Time] < [Admission Time]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.IsHHMM(Separation_Time_original,'0000',0) = 0
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1040: [Separation Date] > [Date that record is loaded]

Pseudocode

```
IF
	[Separation Date] (data item 43) > [Date that record is loaded]
THEN
	REJECT record
	PRINT error message 1040: [Separation Date] > [Date that record is loaded]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Separation_Date <= getdate()
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1050: [Admission Date] > [Date that record is loaded]

Pseudocode

```
IF
       [Admission Date] (data item 21) > [Date that record is loaded]
THEN
       REJECT record
       PRINT error message 1050: [Admission Date] > [Date that record is loaded]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Admission_Date <= getdate()
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1060: [Patient Unit Record Number] format is INVALID

Pseudocode

```
IF
	[Patient Unit Record Number] (data item 03) is an invalid format
THEN
	REJECT record
	PRINT error message 1060: [Patient Unit Record Number] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
IsNumeric(Patient_Unit_Number) = 1 and
len(Patient_Unit_Number) = 10 and
(case when isnumeric(patient_unit_number)=1 then convert(bigint,patient_unit_number) else 0
end) >= 1
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1080: [Record Type] not in system reference table

Pseudocode

```
IF
       [Record Type] not in system reference table
THEN
       REJECT record
       PRINT error message 1000: [Record Type] not in system reference table
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Record_Type = codes.domain dc_Code and
dc_field_name = 'Record Type - on submission'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1100: Data item number is INVALID, not found on system reference table

Pseudocode

```
IF
       Data item number not found on system reference table
THEN
       REJECT record
       PRINT error message 1100: Data item number is INVALID, not found on system reference
       table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1110: For [Record Type] of (5) NOT COMPATIBLE WITH [Delete Code] not (0, or 1)

Pseudocode

```
IF
        [Record Type] = 5 (New record)
AND
(
        [Delete Code] <> 0 (Not deleted)
        AND
        [Delete Code] <> 1 (Deleted)
)
THEN
        REJECT record
        PRINT error message 1110: For [Record Type] of (5) NOT COMPATIBLE WITH [Delete Code]
        not (0, or 1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
record_type = '5' and
(delete_indicator not in ('0','1') or
delete_indicator is null  )
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1130: Record with [Admission Date] & [Admission Time] occurs multiple times for same [Patient Unit Record Number] and [Hospital Number]

Pseudocode

```
IF
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
=
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
for another record for this patient in the file
THEN
        REJECT record
        PRINT error message 1130: Record with [Admission Date] & [Admission Time] occurs
        multiple times for same [Patient Unit Record Number] and [Hospital Number]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1131: Record with [Admission Date] & [Admission Time] already in database for same [Patient Unit Record Number] and [Hospital Number]

Pseudocode

```
IF
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
=
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
for another record for this patient in the database
THEN
	REJECT record
	PRINT error message 1131: Record with [Admission Date] & [Admission Time] already in
	database for same [Patient Unit Record Number] and [Hospital Number]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid
    DECLARE @cnt INT
        --DECLARE @s varchar(1000)
    --SET @s='edit_1131: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@admission_date + ' || ' + @admission_time + ' || '  + @separation_date + ' || ' +
@separation_time + ' || ' + @record_type
    --EXEC xp_logevent 50001,@s
     -- New record... looking for any overlap for same Hosp + MRN
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[adm_date] = SUBSTRING(@admission_date, 5, 4) + SUBSTRING(@admission_date, 3,
2) + SUBSTRING(@admission_date, 1, 2)  -- Change to matching YYYYMMDD format
    AND      IFA.[adm_time] = @admission_time
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      @record_type = '2' -- New
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
-- Correction record... looking for overlap for same Hosp + MRN but not record being updated
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected
    AND      IFA.[adm_date] = SUBSTRING(@admission_date, 5, 4) + SUBSTRING(@admission_date, 3,
2) + SUBSTRING(@admission_date, 1, 2)  -- Change to matching YYYYMMDD format
    AND      IFA.[adm_time] = @admission_time
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      @record_type = '3' -- Correction
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1140: 2 or more deletion records for same patient

Pseudocode

None.

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1150: Records indicating [Delete Code] of (1, or 2) exist the same correction file for same record key

Pseudocode

```
IF
	duplicate key found
AND
(
	[Delete Code] = 1 (Deleted) in one of the matching records
	AND
	[Delete Code] = 0 (Not deleted) in another matching record within the same correction
	file
)
THEN
	REJECT record
	PRINT error message 1150: Records indicating [Delete Code] of (1, or 2) exist the same
	correction file for same record key
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1160: Invalid date, time or value submitted

Pseudocode

None.

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Does not exist.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1170: [Record Type] not (R, or S)

Pseudocode

```
IF
(
	[Record Type] not <> R
	AND
	[Record Type] not <> S
)
THEN
	REJECT record
	PRINT error message 1000: [Record Type] not (R, or S)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Record_Type_ISAAC in    ('R', 'S') and
some_other_condition
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1190: Correction Record found no Match

Pseudocode

None.

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1300: [Patient Category] of (3), or [Principal Diagnosis] of (Z763, or Z764)

Pseudocode

```
IF
        [Patient Category] (data item 14) = 3 (Boarder)
OR
        [Principal Diagnosis] (data item 45) = Z763, or Z764
THEN
        REJECT record
        PRINT error message 1300: [Patient Category] of (3), or [Principal Diagnosis] of
        (Z763, or Z764)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Patient_Category = '3' or
Principal_Diagnosis = 'Z763'
```

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1310: [Patient Category] of (3), or [Principal Diagnosis] of (Z763, or Z764), or [Additional Diagnosis] of (Z763, or Z764)

Pseudocode

```
IF
        [Patient Category] (data item 14) = 3 (Boarder)
OR
        [Principal Diagnosis] (data item 45) = Z763, or Z764
OR
        [Additional Diagnosis] (data item 46) = Z763, or Z764
THEN
        REJECT record
        PRINT error message 1310: [Patient Category] of (3), or [Principal Diagnosis] of
        (Z763, or Z764), or [Additional Diagnosis] of (Z763, or Z764)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE    @IsInValid    SMALLINT = 0 ;


    IF    (
            (@correction_deletion_item_number='45' or '46' AND
@correction_deletion_new_information='Z763')
            OR (@correction_deletion_item_number='45' or '46' AND
@correction_deletion_new_information='Z764')
            OR (@correction_deletion_item_number = '14' AND
@correction_deletion_new_information = '3')
        )

    BEGIN
        SET @IsInValid = 1 ;
    END ;


    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Updated August 2021.

Result

None.

Action

None.

1340: [Separation Date] & [Separation Time] is between [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record in file

Pseudocode

```
IF
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
is in between
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
AND
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
of another record for this patient in the file
THEN
        REJECT record
        PRINT error message 1340: [Separation Date] & [Separation Time] is between [Admission
        Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record
        in file
```

Status

Active

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1341: [Separation Date] & [Separation Time] is between [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record in database

Pseudocode

```
IF
(
	[Separation Date] (data item 43)
	&
	[Separation Time] (data item 70)
)
is in between
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
AND
(
	[Separation Date] (data item 43)
	&
	[Separation Time] (data item 70)
)
of another record for this patient in the database
THEN
	REJECT record
	PRINT error message 1341: [Separation Date] & [Separation Time] is between [Admission
	Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record
	in database
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_1341: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@separation_date + ' || ' + @separation_time
    --EXEC xp_logevent 50001,@s
    SELECT  @cnt = COUNT(*)
    FROM            [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[ADM_DATETIME] < DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Separation date GT other admission date
    AND      IFA.[SEP_DATETIME] > DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Separation date LT SAME other separation date
    HAVING COUNT(*) > 0 -- Duplicate
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1

    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1350: Overlapping Record - Admission Date/Time between Adm Date/Time & Sep Date/Time of another record in file both records rejected

Pseudocode

```
IF
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
is in between
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
AND
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
of another record for this patient in the file
THEN
        REJECT both records
```

Status

Active

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1351: [Admission Date] & [Admission Time] is between [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record in database

Pseudocode

```
IF
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
is in between
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
AND
(
	[Separation Date] (data item 43)
	&
	[Separation Time] (data item 70)
)
of another record for this patient in the database
THEN
	REJECT record
	PRINT error message 1351: [Admission Date] & [Admission Time] is between [Admission
	Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record
	in database
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_1351: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@admission_date + ' || ' + @admission_time + ' || '  + @separation_date + ' || ' +
@separation_time + ' || ' + @record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for any overlap for same Hosp + MRN
    SELECT  @cnt = COUNT(*)
    FROM            [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@admission_date, 1, 2) + '/'  + SUBSTRING(@admission_date, 3, 2) +
'/' + SUBSTRING(@admission_date, 5, 4)) = 1 -- Can only compare valid admission date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[ADM_DATETIME] < DATEADD(MI, CONVERT(INT,SUBSTRING(@admission_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@admission_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@admission_date, 1, 2) +'/'  + SUBSTRING(@admission_date, 3, 2) + '/' +
SUBSTRING(@admission_date, 5, 4)))) -- Admission date GT other admission date
    AND      IFA.[SEP_DATETIME] > DATEADD(MI, CONVERT(INT,SUBSTRING(@admission_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@admission_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@admission_date, 1, 2) +'/'  + SUBSTRING(@admission_date, 3, 2) + '/' +
SUBSTRING(@admission_date, 5, 4)))) -- Admission date LT SAME other separation date
    AND      @record_type = '2' -- New
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    -- Correction record... looking for overlap for same Hosp + MRN but not record being
updated
    SELECT  @cnt = COUNT(*)
```

```
    FROM            [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISDATE(SUBSTRING(@admission_date, 1, 2) + '/'  + SUBSTRING(@admission_date, 3, 2)
+ '/' + SUBSTRING(@admission_date, 5, 4)) = 1 -- Can only compare valid admission date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected
    AND      IFA.[ADM_DATETIME] < DATEADD(MI, CONVERT(INT,SUBSTRING(@admission_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@admission_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@admission_date, 1, 2) +'/'  + SUBSTRING(@admission_date, 3, 2) + '/' +
SUBSTRING(@admission_date, 5, 4)))) -- Admission date GT other admission date
    AND      IFA.[SEP_DATETIME] > DATEADD(MI, CONVERT(INT,SUBSTRING(@admission_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@admission_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@admission_date, 1, 2) +'/'  + SUBSTRING(@admission_date, 3, 2) + '/' +
SUBSTRING(@admission_date, 5, 4)))) -- Admission date LT SAME other separation date
    AND      @record_type = '3' -- Correction
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

1360: Overlapping Record - Admission & Separation Date/Time for this records is between Adm Date/Time & Sep Date/Time of another record in the file – both records rejected (Inner Record)

Pseudocode

```
IF
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
        is in between
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
AND
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
        of another record for this patient in the file
THEN
        REJECT both records
```

Status

Active

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1360: Overlapping Record - Admission & Separation Date/Time for another record in the file is between Adm Date/Time & Sep Date/Time of this record – both records rejected (Outer Record)

Pseudocode

```
IF
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
        is in between
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
AND
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
        of another record for this patient in the file
THEN
        REJECT both records
```

Status

Active

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

Updated status to active May 2023. Data Quality check is active but is run pre-processing.

Result

None.

Action

None.

1361: [Admission Date] & [Admission Time] < [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] > [Separation Date] & [Separation Time] of another record in database

Pseudocode

```
IF
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
<
(
	[Admission Date] (data item 21)
	&
	[Admission Time] (data item 67)
)
AND
(
	[Separation Date] (data item 43)
	&
	[Separation Time] (data item 70)
)
>
(
	[Separation Date] (data item 43)
	&
	[Separation Time] (data item 70)
)
of another record for this patient in the database
THEN
	REJECT record
	PRINT error message 1361: [Admission Date] & [Admission Time] < [Admission Date] &
	[Admission Time], and [Separation Date] & [Separation Time] > [Separation Date] &
	[Separation Time] of another record in database
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_1361: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@admission_date + ' || ' + @admission_time + ' || '  + @separation_date + ' || ' +
@separation_time + ' || ' + @record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for any overlap for same Hosp + MRN
    SELECT  @cnt = COUNT(*)
    FROM            [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISDATE(SUBSTRING(@admission_date, 1, 2) + '/'  + SUBSTRING(@admission_date, 3, 2)
+ '/' + SUBSTRING(@admission_date, 5, 4)) = 1 -- Can only compare valid admission date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[ADM_DATETIME] > DATEADD(MI, CONVERT(INT,SUBSTRING(@admission_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@admission_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@admission_date, 1, 2) +'/'  + SUBSTRING(@admission_date, 3, 2) + '/' +
SUBSTRING(@admission_date, 5, 4)))) -- Admission date LT other admission date
    AND      IFA.[SEP_DATETIME] < DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Separation date GT SAME other separation date
```

```
    AND      @record_type = '2' -- New
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    -- Correction record... looking for overlap for same Hosp + MRN but not record being
updated
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISDATE(SUBSTRING(@admission_date, 1, 2) + '/'  + SUBSTRING(@admission_date, 3, 2)
+ '/' + SUBSTRING(@admission_date, 5, 4)) = 1 -- Can only compare valid admission date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected
    AND      IFA.[ADM_DATETIME] > DATEADD(MI, CONVERT(INT,SUBSTRING(@admission_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@admission_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@admission_date, 1, 2) +'/'  + SUBSTRING(@admission_date, 3, 2) + '/' +
SUBSTRING(@admission_date, 5, 4)))) -- Admission date LT other admission date
    AND      IFA.[SEP_DATETIME] < DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3, 2)),
DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Separation date GT SAME other separation date
    AND      @record_type = '3' -- Correction
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2000: [Admission Date] format is INVALID

Pseudocode

```
IF
       [Admission Date] (data item 21) is an invalid date
THEN
       ACCEPT submitted date
       PRINT error message 2000: [Admission Date] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.IsDDMMYYYY(admission_date_original,'00000000',0) = 1
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2001: [Date Of First Operating Theatre Procedure] < [Admission Date] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033), and [Procedure Location Indicator] of (1)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033
AND
        [Procedure Location Indicator] (data item 85_001-85_099) = 1 (This hospital)
AND
        [Date Of First Operating Theatre Procedure] (data item 96) < [Admission Date] (data
        item 21)
THEN
        ACCEPT submitted record
        PRINT error message 2001: [Date Of First Operating Theatre Procedure] < [Admission
        Date] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033),
        and [Procedure Location Indicator] of (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code in ('0003','0005','0014','0018','0019','0027','0030','0033') and
(principal_procedure_location = 1 or
dbo.ValidateDelimitedField(additional_procedure_location,',',1,101) = 1 ) and ----26
convert(date,Date_time_of_First_OT_Procedure_Performed,103) <
convert(date,admission_date_time,103)
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2002: [Date Of First Operating Theatre Procedure] > [Separation Date] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033), and [Procedure Location Indicator] of (1)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033
AND
        [Procedure Location Indicator] (data item 85_001-85_099) = 1 (This hospital)
AND
        [Date Of First Operating Theatre Procedure] (data item 96) > [Separation Date] (data
        item 43)
THEN
        ACCEPT submitted record
        PRINT error message 2002: [Date Of First Operating Theatre Procedure] > [Separation
        Date] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033),
        and [Procedure Location Indicator] of (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code in ('0003','0005','0014','0018','0019','0027','0030','0033') and
(principal_procedure_location = 1 or
dbo.ValidateDelimitedField(additional_procedure_location,',',1,101) = 1 ) and
convert(date,Date_time_of_First_OT_Procedure_Performed,103) >
convert(date,separation_date_time,103)
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2003: [Time Of First Operating Theatre Procedure] < [Admission Time] where [Date Of First Operating Theatre Procedure] = [Admission Date] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033
AND
        [Procedure Location Indicator] (data item 85_001-85_099) = 1 (This hospital)
AND
(
        [Date Of First Operating Theatre Procedure] (data item 96) = [Admission Date] (data
        item 21)
        AND
        [Time Of First Operating Theatre Procedure] (data item 81) < [Admission Time] (data
        item 67)
)
THEN
        ACCEPT submitted record
        PRINT error message 2003: [Time Of First Operating Theatre Procedure] < [Admission
        Time] where [Date Of First Operating Theatre Procedure] = [Admission Date] for
        [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
hospital_code in ('0003','0005','0014','0018','0019','0027','0030','0033') and
(principal_procedure_location = '1' and
dbo.ValidateDelimitedField(additional_procedure_location,',',1,101) = '1' ) and --26
(date_of_first_ot_procedure_performed = admission_date and
time_of_first_ot_procedure_performed < admission_time )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2004: [Time Of First Operating Theatre Procedure] > [Separation Time] where [Date Of First Operating Theatre Procedure] = [Separation Date] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033
AND
        [Procedure Location Indicator] (data item 85_001-85_099) = 1 (This hospital)
AND
(
        [Date Of First Operating Theatre Procedure] (data item 96) = [Separation Date] (data
        item 43)
        AND
        [Time Of First Operating Theatre Procedure] (data item 81) > [Separation Time] (data
        item 70)
)
THEN
        ACCEPT submitted record
        PRINT error message 2004: [Time Of First Operating Theatre Procedure] > [Separation
        Time] where [Date Of First Operating Theatre Procedure] = [Separation Date] for
        [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
/*
declare @s varchar(1000)
set @s=RIGHT([separation_date], 4) + SUBSTRING([separation_date], 3, 2) +
LEFT([separation_date], 2)+'<'+convert(varchar(10),dateadd(yy,-10,getdate()),112)
exec xp_logevent 50001,@s
*/
---exec xp_logevent 50001,@Separation_Date
select @ret= case when (
@hospital_code in ('0003','0005','0014','0018','0019','0027','0030','0033') and
(@principal_procedure_location =   '1'   or
patindex('%,1,%',','+@additional_procedure_location+',')>0 ) and
datediff(D,@Date_time_of_First_OT_Procedure_Performed,@separation_date_time)=0 and
datediff(SS,@Date_time_of_First_OT_Procedure_Performed,@separation_date_time)<0
) then 1
else 0
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2005: [Date Of First Operating Theatre Procedure] REQUIRES [Time Of First Operating Theatre Procedure] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033
AND
        [Date Of First Operating Theatre Procedure] (data item 96) is a valid date ≥
        01/07/2008
AND
        [Time Of First Operating Theatre Procedure] (data item 81) is blank
THEN
        ACCEPT submitted record
        PRINT error message 2005: [Date Of First Operating Theatre Procedure] REQUIRES [Time
        Of First Operating Theatre Procedure] for [Hospital Number] of (0003, 0005, 0014,
        0018, 0019, 0027, 0030, or 0033)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code in ('0003','0005','0014','0018','0019','0027','0030','0033') and
dbo.IsDDMMYYYY (date_of_first_ot_procedure_performed_original, '00000000',0) > 0 and
convert(date,date_of_first_ot_procedure_performed,103) >= '2008-07-01' and
IsNumeric(time_of_first_ot_procedure_performed_original) = 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2006: [Time Of First Operating Theatre Procedure] REQUIRES [Date Of First Operating Theatre Procedure] for [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003, 0005, 0014, 0018, 0019, 0027, 0030, or 0033
AND
        [Date Of First Operating Theatre Procedure] (data item 96) is blank
AND
        [Time Of First Operating Theatre Procedure] (data item 81) is a valid time
THEN
        ACCEPT submitted record
        PRINT error message 2006: [Time Of First Operating Theatre Procedure] REQUIRES [Date
        Of First Operating Theatre Procedure] for [Hospital Number] of (0003, 0005, 0014,
        0018, 0019, 0027, 0030, or 0033)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code in ('0003','0005','0014','0018','0019','0027','0030','0033') and
Date_of_First_OT_Procedure_Performed is null  and
nullif(Time_of_First_OT_Procedure_Performed,'00:00:00') is not null
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2010: [Admission Date] >= [Hospital Closure Date] for [Hospital Number] in system reference table

Pseudocode

```
IF
        [Hospital Number] (data item 01) = [Hospital Number] in system reference table
AND
        [Admission Date] (data item 21) >= [Hospital Closure Date] for [Hospital Number] in
        system reference table
THEN
        ACCEPT submitted record
        PRINT error message 2010: [Admission Date] >= [Hospital Closure Date] for [Hospital
        Number] in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF  EXISTS (
            SELECT TOP (1) 1
            FROM codes.Hospitals h
            WHERE   h.hc_Code = @hospital_code
                AND REPLACE(@admission_date, '-', '') >= CONVERT(VARCHAR(10),
h.hc_Date_Closed, 112) -- Comparing yyyymmdd
        )
    BEGIN
        SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2020: [Admission Date] >= [Separation Date]

Pseudocode

```
IF
       [Admission Date] (data item 21) >= [Separation Date] (data item 43)
THEN
       ACCEPT submitted record
       PRINT error message 2020: [Admission Date] >= [Separation Date]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
admission_date >= separation_date
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2030: [Admission Date] >= (10 years ago)

Pseudocode

```
IF
       [Admission Date] (data item 21) >= 10 years ago
THEN
       ACCEPT submitted values
       PRINT error message 2030: [Admission Date] >= (10 years ago)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Admission_Date >=    dateadd(yy,-10,getdate())
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2040: [Date Of Birth] format is INVALID

Pseudocode

```
IF
       [Date Of Birth] (data item 09) is blank, or is an invalid date
THEN
       ACCEPT submitted record
       PRINT error message 2040: [Date Of Birth] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.IsDDMMYYYY(Date_of_birth_original,null,0) = 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2050: [Date Of Birth] > [Admission Date], and [Date Of Birth] not (01-Jul-1890)

Pseudocode

```
IF
	[Date Of Birth] (data item 09) > [Admission Date] (data item 21)
AND
	[Date of Birth] (data item 09) <> 01/07/1890
THEN
	ACCEPT submitted record
	PRINT error message 2050: [Date Of Birth] > [Admission Date], and [Date Of Birth] not
	(01-Jul-1890))
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
convert(date,Date_of_Birth,103) > convert(date,Admission_date,103) and
convert(varchar(10),Date_of_Birth,103) <> '01/07/1890'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2060: [Admission Time] of invalid format

Pseudocode

```
IF
       [Admission Time] (data item 67) is blank, or is an invalid time
THEN
       ACCEPT submitted record
       PRINT error message 2060: [Admission Time] of invalid format
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.IsHHMM(Admission_Time_original,'0000',0) = 0
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

2070: [Separation Date] >= (10 years ago)

Pseudocode

```
IF
       [Separation Date] (data item 43) >= 10 years ago
THEN
       ACCEPT submitted values
       PRINT error message 2030: [Separation Date] >= (10 years ago)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF REPLACE(@separation_date, '-', '') <= CONVERT(VARCHAR(10), DATEADD(YEAR, -10,
GETDATE()), 112)
    BEGIN
        SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2077: [Additional Diagnosis] of (U0770-U0774) REQUIRES [Additional Diagnosis] or [External Cause] of (Y590)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46) = U0770-U0774
AND
        [Additional Diagnosis] (data item 46-46) <> Y590
        AND
        [External Cause] (data item 47) <> Y590

THEN
        ACCEPT submitted record
        PRINT error message 2077: [Additional Diagnosis] of (U0770-U0774) REQUIRES [Additional
        Diagnosis] or [External Cause] of (Y590)
```

Status

Active.

Implementation

None

Issue

None.

Update data quality check

Updated 1 July 2022 to increase Additional diagnosis range to U0770-U0774

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2078: [Additional Diagnosis] of (U0770-U0774) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (T800-T809)

Pseudocode

```
IF
	[Additional Diagnosis] (data item 46) = U0770-U0774
AND
	(
	[Principal Diagnosis] (data item 45) = T800-T809
	OR
	[Additional Diagnosis] (data item 46) = T800-T809
	)
THEN
	ACCEPT submitted record
	PRINT error message 2078: [Additional Diagnosis] of (U0770-U0774) NOT COMPATIBLE WITH
	[Principal Diagnosis] or [Additional Diagnosis] of (T800-T809)
```

Status

Inactive.

Implementation

None

Issue

None.

Update data quality check

Downgrade to Warning 4087 in May 2022

Inactive from 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2079: [Additional Diagnosis] (U073, or U074) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U075), or [Additional Diagnosis] (U073, or U074)

```
IF
        [Additional Diagnosis] (data item 46) = U073 or U074
        AND
        (
                (
                        [Additional Diagnosis] (data item 46) = U075
                        OR
                        [Principal Diagnosis] (data item 45) = U075
                )
                OR
                        [Additional Diagnosis] (data item 46) = U073 or U074
        )
THEN
        ACCEPT submitted record
        PRINT error message 2079: [Additional Diagnosis] (U073, or U074) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (U075), or [Additional Diagnosis]
        (U073, or U074)
```

Status

Active.

Implementation

None

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2080: [Nature Of Separation] not (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, E or X)

Pseudocode

```
IF
(
        [Nature Of Separation] (data item 42) <> 0 (Discharge on leave)
        AND
        [Nature Of Separation] (data item 42) <> 1 (Home)
        AND
        [Nature Of Separation] (data item 42) <> 2 (Other hospital: Up transfer)
        AND
        [Nature Of Separation] (data item 42) <> 3 (Residential aged care facility)
        AND
        [Nature Of Separation] (data item 42) <> 4 (Other health care accommodation)
        AND
        [Nature Of Separation] (data item 42) <> 5 (Died: No autopsy)
        AND
        [Nature Of Separation] (data item 42) <> 6 (Died: Autopsy)
        AND
        [Nature Of Separation] (data item 42) <> 7 (Other hospital: Down transfer)
        AND
        [Nature Of Separation] (data item 42) <> 8 (Self discharge)
        AND
        [Nature Of Separation] (data item 42) <> 9 (Unknown)
        AND
        [Nature Of Separation] (data item 42) <> A (Administrative discharge)
        AND
        [Nature Of Separation] (data item 42) <> E (End of quarter reporting)
        AND
        [Nature Of Separation] (data item 42) <> B (NDIS residential aged care, not usual
        place of residence)
        AND
        [Nature Of Separation] (data item 42) <> C (NDIS residential aged care, usual place of
        residence)
        AND
        [Nature Of Separation] (data item 42) <> K (NDIS other)
        AND
        [Nature Of Separation] (data item 42) <> X (Retrieval)
)
THEN
        ACCEPT submitted value
        PRINT error message 2080: [Nature Of Separation] not (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A,
        B, C, E or X)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Nature_Of_Separation in codes.domain dc_Field_Name 'Nature of Separation' dc_Code
```

Issue

None.

Update data quality check

June 2024 to add codes B and C.

Result

None.

Action

None.

2081: [Additional Diagnosis] of (B948) NOT COMPATIBLE WITH [Additional Diagnosis] (U074)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46) = B948
AND
        (
        [Additional Diagnosis] (data item 46) = U074
        )
THEN
        ACCEPT submitted record
        PRINT error message 2081: [Additional Diagnosis] of (B948) NOT COMPATIBLE WITH
        [Additional Diagnosis] (U074)
```

Status

Active.

Implementation

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2082: [Principal Diagnosis] or [Additional Diagnosis] of (B342) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] (U0711, U0712 or U072)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = B342
OR
        [Additional Diagnosis] (data item 46) = B342
AND
        (
        [Principal Diagnosis] (data item 45) = U0711, U0712 or U072
        OR
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
        )
THEN
        ACCEPT submitted record
        PRINT error message 2082: [Principal Diagnosis] or [Additional Diagnosis] of (B342)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] (U0711, U0712 or
        U072)
```

Status

Active.

Implementation

Issue

None.

Update data quality check

Updated 1 July 2022.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2083: [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712, or U072) NOT COMPATIBLE WITH [Additional Diagnosis] or [Principal Diagnosis] (U075)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = U0711, U0712 or U072
OR
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
AND
        (
        [Additional Diagnosis] (data item 46) = U075
        OR
        [Principal Diagnosis] (data item 45) = U075
        )
THEN
        ACCEPT submitted record
        PRINT error message 2083: [Principal Diagnosis] or [Additional Diagnosis] of (U0711,
        U0712, or U072) NOT COMPATIBLE WITH [Additional Diagnosis] or [Principal Diagnosis]
        (U075)
```

Status

Active.

Implementation

Issue

None.

Update data quality check

Updated 1 July 2022.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2084: [Principal Diagnosis] or [Additional Diagnosis] of (M303) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U075)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = M303
OR
        [Additional Diagnosis] (data item 46) = M303
AND
        (
        [Additional Diagnosis] (data item 46) = U075
        OR
        [Principal Diagnosis] (data item 45) = U075
        )
THEN
        ACCEPT submitted record
        PRINT error message 2084: [Principal Diagnosis] or [Additional Diagnosis] of (M303)
        NOT COMPATIBLE WITH[Principal Diagnosis] or [Additional Diagnosis] of (U075)
```

Status

Active.

Implementation

Issue

None.

Update data quality check

Updated 1 July 2022.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2085: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Nature Of Separation] of (0, 4, A, B, E or X)

Pseudocode

```
IF
[Episode Of Care] (data item 51) = 7 (Hospital in the home / Rehab in the home)
AND
(
[Nature Of Separation] (data item 42) = 0 (Discharge on leave)
OR
[Nature Of Separation] (data item 42) = 4 (Other health care accommodation)
OR
[Nature Of Separation] (data item 42) = A (Administrative discharge)
OR
[Nature Of Separation] (data item 42) = B (Residential Aged Care – Not usual place of
       residence)
OR
[Nature Of Separation] (data item 42) = E (End of quarter reporting)
OR
[Nature Of Separation] (data item 42) = X (Retrieval)
)
THEN
       ACCEPT submitted record
       PRINT error message 2085: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Nature Of
       Separation] of (0, 4, A, B, E or X)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Nature_Of_Separation in (0, 4, A, B, E or X)and
Episode_Of_Care = '7'
```

Issue

None.

Update data quality check

Updated June 2024 Nature of Separation values to 0, 4, A, B, E or X.

Result

None.

Action

None.

2086: [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712 or U072) NOT COMPATIBLE with [Principal Diagnosis] or [Additional Diagnosis] of (Z0381)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = U0711, U0712 or U072
OR
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
AND
        (
        [Principal Diagnosis] (data item 45) = Z0381
OR
        [Additional Diagnosis] (data item 46) = Z0381
        )
THEN
        ACCEPT submitted record
        PRINT error message 2086: [Principal Diagnosis] or [Additional Diagnosis] of (U0711,
        U0712 or U072) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of
        (Z0381)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2087: [Principal Diagnosis] or [Additional Diagnosis] of (U0711 or U0712) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U072)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = U0711, or U0712
OR
        [Additional Diagnosis] (data item 46) = U0711, or U0712
        )
AND
        (
        [Principal Diagnosis] (data item 45) = U072
OR
        [Additional Diagnosis] (data item 46) = U072
        )
THEN
        ACCEPT submitted record
        PRINT error message 2087: [Principal Diagnosis] or [Additional Diagnosis] of (U0711 or
        U0712) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U072)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2088: [Principal Diagnosis] or [Additional Diagnosis] of (O000 to O984) or (O986 to O998), and [Additional Diagnosis] of (U0711, U0712 or U072) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O985)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = O000-O984 or O986-O998
        AND
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
        )
OR
        (
        [Additional Diagnosis] (data item 46) = O000-O984 or O986-O998
        AND
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
        )
AND
        [Principal Diagnosis] (data item 45) <> O985 or [Additional Diagnosis] (data item =
        46) <> O985
THEN
        ACCEPT submitted record
        PRINT error message 2088: [Principal Diagnosis] or [Additional Diagnosis] of (O000 to
        O984) or (O986 to O998), and [Additional Diagnosis] of (U0711, U0712, or U072)
        REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O985)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
DECLARE @IsInValid  SMALLINT = 0 ;
SELECT    @IsInValid =  CASE
WHEN
(
(
(SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
IN ('U0711','U0712','U072')) IS NOT NULL
AND
((SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
= 'O985') IS NULL)
AND
(
(ISNULL(RTRIM(LTRIM(@principal_diagnosis)),'') BETWEEN 'O000' AND 'O984')
OR
(ISNULL(RTRIM(LTRIM(@principal_diagnosis)),'') BETWEEN 'O986' AND 'O998')
)
)
OR
(
(SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
IN ('U0711','U0712','U072')) IS NOT NULL
AND
((SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
= 'O985') IS NULL)
AND
```

```
(ISNULL(RTRIM(LTRIM(@principal_diagnosis)),'') <> 'O985')
AND
(
 ((SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
BETWEEN 'O000' AND 'O984') IS NOT NULL )
OR
((SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
BETWEEN 'O986' AND 'O998') IS NOT NULL )
AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
AND REPLACE(@separation_date,'-','') >= '20190701'

THEN 1
ELSE 0
END ;
RETURN @IsInValid ;
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2089: [Additional Diagnosis] of (U071 or U072) REQUIRES [Principal Diagnosis] of (B342) or [Additional Diagnosis] of (B342 or B972)

Pseudocode

```
IF
[Additional Diagnosis] (data item 46) = U071 or U072
AND
(
[Principal Diagnosis] (data item 45) ≠ B342
OR
[Additional Diagnosis](data item 46) ≠ B342 or B972
)
THEN
ACCEPT submitted record

PRINT error message 2089: [Additional Diagnosis] of (U071 or U072) REQUIRES [Principal
Diagnosis] of (B342) or [Additional Diagnosis] of (B342 or B972)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
DECLARE @IsInValid  SMALLINT = 0 ;
SELECT    @IsInValid =  CASE
WHEN
(SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
IN ('U071','U072')) IS NOT NULL
AND
(
(ISNULL(RTRIM(LTRIM(@principal_diagnosis)),'') <> 'B342')
AND
(SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
IN ('B342','B972')) IS NULL
)

AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
AND REPLACE(@separation_date,'-','') >= '20190701'
THEN 1
ELSE 0
END ;
RETURN @IsInValid ;
```

Issue

None.

Update data quality check

Inactive – effective from 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2090: [Additional Diagnosis] of (U061-U068, U076, U078-U079, U130–U499 or U750-U779) NOT PERMITTED

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46) = U061-U068, U076, U078-U079, U130-U499, or
        U750-U779

THEN
        ACCEPT submitted record
        PRINT error message 2090: [Additional Diagnosis] of (U061-U068, U076, U078-U079, U130-
        U499 or U750-U779) NOT PERMITTED
```

Status

Active.

Implementation

None.

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2091: [Principal Diagnosis] of (O422) NOT COMPATIBLE WITH [Additional Diagnosis] of (O4211, or O4212), or [Principal Diagnosis] of (O4211, or O4212) NOT COMPATIBLE WITH [Additional Diagnosis] of (O422)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O422
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O4211, or O4212
)
OR
(
        [Principal Diagnosis] (data item 45) = O4211, or O4212
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O422
)
THEN
        ACCEPT submitted values
        PRINT error message 2091: [Principal Diagnosis] of (O422) NOT COMPATIBLE WITH
        [Additional Diagnosis] of (O4211, or O4212), or [Principal Diagnosis] of (O4211, or
        O4212) NOT COMPATIBLE WITH [Additional Diagnosis] of (O422)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis in ('O422') and
dbo.ContainsStrings('|O4211|O4212|',additional_diagnosis) > 0 ) or
(principal_diagnosis in ('O4211','O4212') and
dbo.ContainsStrings('|O422|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2093: [Principal Diagnosis] or [Additional Diagnosis] of (O80-O83) REQUIRES [Additional Diagnosis] of (Z370-Z371)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O80-O83
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z370-Z371
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O80-O83
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z370-Z371
)
THEN
        ACCEPT submitted values
        PRINT error message 2093: [Principal Diagnosis] or [Additional Diagnosis] of (O80-O83)
        REQUIRES [Additional Diagnosis] of (Z370-Z371)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis in ('O80','O81','O82','O83') or
dbo.ContainsStrings('|O80|O81|O82|O83|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z370|Z371|',additional_diagnosis) = 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2094: [Additional Diagnosis] of (Z370-Z371) REQUIRES [Principal Diagnosis] of (O040-O049, or O80-O83), or [Additional Diagnosis] of (O80-O83)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371
        AND
        (
                [Principal Diagnosis] (data item 45) <> O040-O049
                OR
                [Principal Diagnosis] (data item 45) <> O80-O83
        )
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O80-O83
)
THEN
        ACCEPT submitted values
        PRINT error message 2094: [Additional Diagnosis] of (Z370-Z371) REQUIRES [Principal
        Diagnosis] of (O040-O049, or O80-O83), or [Additional Diagnosis] of (O80-O83)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE    @IsInValid    SMALLINT = 0 ;

    IF dbo.ContainsStrings('|Z370|Z371|',@additional_diagnosis) > 0
    AND
    (
        -- 01-Jul-2019: Add O040-O049 as [Principle Procedure]
        @principal_diagnosis NOT IN
('O04O','O041','O042','O043','O044','O045','O046','O047','O048','O049','O80','O81','O82','O83'
)
        AND
        dbo.ContainsStrings('|O80|O81|O82|O83|',@additional_diagnosis) = 0
        )

    --AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
    --AND REPLACE(@separation_date,'-','') >= '20170701'

    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2095: [Additional Diagnosis] of (Z370-Z371) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O300-O309, or O840-O849)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371
        AND
        [Principal Diagnosis] (data item 45) = O300-O309, or O840-O849
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O300-O309, or O840-O849
)
THEN
        ACCEPT submitted values
        PRINT error message 2095: [Additional Diagnosis] of (Z370-Z371) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (O300-O309, or O840-O849)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'O300' and 'O309' or
principal_diagnosis between 'O840' and 'O849' or
dbo.ContainsStrings('|O30[0-9]|',additional_diagnosis) > 0 or
dbo.ContainsStrings('|O84[0-9]|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z370|Z371|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2096: [Additional Diagnosis] of (Z370-Z371, or Z375-Z377) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O632, or O661)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371, or Z375-Z377
        AND
        [Principal Diagnosis] (data item 45) = O632, or O661
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371, or Z375-Z377
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O632, or O661
)
THEN
        ACCEPT submitted values
        PRINT error message 2096: [Additional Diagnosis] of (Z370-Z371, or Z375-Z377) NOT
        COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O632, or O661)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis in ('O632','O661') or
dbo.ContainsStrings('|O632|O661|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z370|Z371|Z375|Z376|Z377|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

Deactivated from 1 July 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2097: [Additional Diagnosis] of (Z372-Z377) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O840-O849)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z372-Z377
        AND
        [Principal Diagnosis] (data item 45) <> O840-O849
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z372-Z377
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O840-O849
)
THEN
        ACCEPT submitted values
        PRINT error message 2097: [Additional Diagnosis] of (Z372-Z377) REQUIRES [Principal
        Diagnosis] or [Additional Diagnosis] of (O840-O849)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE    @IsInValid    SMALLINT = 0 ;

    IF dbo.ContainsStrings('|Z37[2-7]|',@additional_diagnosis) > 0
    AND
    (

        @principal_diagnosis NOT BETWEEN 'O840' and 'O849'
        AND
        dbo.ContainsStrings('|O84[0-9]|',@additional_diagnosis) = 0
        )

    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2098: [Additional Diagnosis] of (Z372-Z377) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O80-O83)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z372-Z377
        AND
        [Principal Diagnosis] (data item 45) = O80-O83
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z372-Z377
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O80-O83
)
THEN
        ACCEPT submitted values
        PRINT error message 2098: [Additional Diagnosis] of (Z372-Z377) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (O80-O83)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'O80' and 'O83' or
dbo.ContainsStrings('|O80|O81|O82|O83|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z37[2-7]|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2099: [Additional Diagnosis] of (Z370-Z374) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O301-O309)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z374
        AND
        [Principal Diagnosis] (data item 45) = O301-O309
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z374
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O301-O309
)
THEN
        ACCEPT submitted values
        PRINT error message 2099: [Additional Diagnosis] of (Z370-Z374) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (O301-O309)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'O301' and 'O309' or
dbo.ContainsStrings('|O30[1-9]|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z37[0-4]|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2105: [Additional Diagnosis] of (Z370-Z371, or Z375-Z377) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O661)

Pseudocode

```
IF
(
[Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371, or Z375-Z377
AND
[Principal Diagnosis] (data item 45) = O661
)
OR
(
[Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371, or Z375-Z377
AND
[Additional Diagnosis] (data item 46_001-46_099) = O661
)
THEN
ACCEPT submitted values
PRINT error message 2105: [Additional Diagnosis] of (Z370-Z371, or Z375-Z377) NOT COMPATIBLE
WITH [Principal Diagnosis] or [Additional Diagnosis] of (O661)
```

Status

Active.

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2106: [Additional Diagnosis] of (Z370-Z371) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O632)

Pseudocode

```
IF
(
[Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371
AND
[Principal Diagnosis] (data item 45) = O632
)
OR
(
[Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371
AND
[Additional Diagnosis] (data item 46_001-46_099) = O632
)
THEN
ACCEPT submitted values
PRINT error message 2106: [Additional Diagnosis] of (Z370-Z371) NOT COMPATIBLE WITH [Principal
Diagnosis] or [Additional Diagnosis] of (O632)
```

Status

Active.

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2111: [Additional Diagnosis] of (Z370-Z371, or Z375-Z377) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O300)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371, or Z375-Z377
        AND
        [Principal Diagnosis] (data item 45) = O300
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z371, or Z375-Z377
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O300
)
THEN
        ACCEPT submitted values
        PRINT error message 2111: [Additional Diagnosis] of (Z370-Z371, or Z375-Z377) NOT
        COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (O300)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'O300' or
dbo.ContainsStrings('|O300|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z370|Z371|Z375|Z376|Z377|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2112: [Principal Diagnosis] or [Additional Diagnosis] of (O80, or O840) NOT COMPATIBLE WITH [Procedure] from (Block 1337, Block 1338, Block 1339, Block 1340, Block 1341, Block 1342, Block 1343 (except 9047200), or 9048200)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O80 or O840
        AND
        [Procedure] (data item 49_001-49_099) = Block 1337, Block 1338, Block 1339, Block
        1340, Block 1341, Block 1342, or Block 1343 (except 9047200), or 9048200
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O80 or O840
        AND
        [Procedure] (data item 49_001-49_099) = Block 1337, Block 1338, Block 1339, Block
        1340, Block 1341, Block 1342, or Block 1343 (except 9047200), or 9048200
)
THEN
        ACCEPT submitted values
        PRINT error message 2112: [Principal Diagnosis] or [Additional Diagnosis] of (O80, or
        O840) NOT COMPATIBLE WITH [Procedure] from (Block 1337, Block 1338, Block 1339, Block
        1340, Block 1341, Block 1342, Block 1343 (except 9047200), or 9048200)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH valid_proceduresCTE AS
    (
        SELECT  ProcedureCode   = c.icd_Code
        FROM [dbo].[vw_Codes_ICD10AM] c
        WHERE   c.icd_proc_block IN ('1337', '1338', '1339', '1340', '1341', '1342') -- 01-
Jul-2019 Add 1339 (complete), 1341
        UNION
        SELECT  ProcedureCode   = c.ProcedureCode
        FROM (VALUES
                  ('9047300') --01-Jul-2019: Added Block 1343 (except 9047200)
                , ('9047400')
                , ('9047500')
                , ('9047600')
                , ('9047700')
                --('9047400')  -- NEW 1 July 2018 Removed 01-Jul-2019
                --, ('9047500')
                --, ('9047700')
                --, ('9047600')
                --, ('9048200')
                --, ('9047001')  -- Block 1339: Removed 01-Jul-2019
                --, ('9047002')
                --, ('9047003')
                --, ('9047004')
                --, ('9046800') -- Removed 1 July 2018. (Block 1337)
                --, ('9046801')
                --, ('9046802')
                --, ('9046803')
                --, ('9046804')
                --, ('9046806') -- Added July 17: Requested by A.Bent
                --, ('9046900')
        ) c(ProcedureCode)
    )
    , all_procedureCTE AS
    (
```

```
        SELECT p.ProcedureCode FROM (VALUES(@principal_procedure)) p(ProcedureCode) WHERE
NULLIF(p.ProcedureCode, '') IS NOT NULL
        UNION
        SELECT ProcedureCode = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT  icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   val IS NOT NULL
        UNION
        SELECT d.icd_code
        FROM (VALUES(@principal_diagnosis)) d(icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN
                                [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
                                AND
                                -- CONVERT(DATE, @separation_date, 1100) >= '2015-07-01'
                                -- Above.. additional condition so that only FY 15/16 and
newer records are considered; Based on logic in Edit 2695. AnnaB requested 28092015.

                                CONVERT(DATE, @separation_date, 126) >= '2017-07-01' -- 1 July
2018

                                AND
                                EXISTS (
                                    -- Note this checks both principal and additional
diagnosis
                                    SELECT TOP (1) 1
                                    FROM all_diagnosisCTE d
                                    WHERE   d.icd_code in ('O80', 'O84') -- 01-Jul-2019: Add
O84
                                )
                                AND EXISTS (
                                        SELECT TOP (1) 1
                                        FROM all_procedureCTE p
                                        WHERE   p.ProcedureCode IN (
                                                    SELECT  vp.ProcedureCode
                                                    FROM valid_proceduresCTE vp
                                                )
                                    )
                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2112A: [Principal Diagnosis] or [Additional Diagnosis] of O80 NOT COMPATIBLE WITH [Procedure] from (9047600, 9047700, Block 1337, Block, 1338, or Block 1340)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O80
        AND
        [Procedure] (data item 49) = 9047600, 9047700, Block 1337, Block 1338, or Block 1340
OR
        [Additional Diagnosis] (data item 46_001-46_099) = O80
        AND
        [Procedure] (data item 49) = 9047600, 9047700, Block 1337, Block 1338, or Block 1340
THEN
        ACCEPT submitted values
        PRINT error message 2112A: [Principal Diagnosis] or [Additional Diagnosis] of O80 NOT
        COMPATIBLE WITH [Procedure] from (9047600, 9047700, Block 1337, Block, 1338, or Block
        1340)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = vw_Codes_ICD10AM   icd_code or
[dbo].[ValidateDelimitedField] (additional_diagnosis,',',1,26) =    icd_code ) and
(((principal_diagnosis =    'O80' ) and
(principal_procedure in    ('9047700','9047600') or
dbo.ContainsStrings('|9047700|9047600|',additional_procedure) >    0 or
principal_procedure in vw_Codes_ICD10AM icd_proc_block '1337' icd_code or
principal_procedure in vw_Codes_ICD10AM icd_proc_block '1338' icd_code or
principal_procedure in vw_Codes_ICD10AM icd_proc_block '1340' icd_code )) or
((dbo.ContainsStrings('|O80|',additional_diagnosis) >    0 )and
((dbo.ContainsStrings('|9047700|9047600|',additional_procedure) >    0 ) or
(vw_Codes_ICD10AM.icd_proc_block in    ('1337','1338','1340') ))))
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2113: [Principal Diagnosis] or [Additional Diagnosis] of (O81, or O841) REQUIRES [Procedure] from (9046800, 9046801, 9046802, 9046804, 9046806, 9046900, 9047002, or 9047004)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O81, O841
        AND
        [Procedure] (data item 49_001-49_099) <> 9046800, 9046801, 9046802, 9046804, 9046806,
        9046900, 9047002, or 9047004
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O81, O841
        AND
        [Procedure] (data item 49_001-49_099) <> 9046800, 9046801, 9046802, 9046804, 9046806,
        9046900, 9047002, or 9047004
)
THEN
        ACCEPT submitted values
        PRINT error message 2113: [Principal Diagnosis] or [Additional Diagnosis] of (O81, or
        O841) REQUIRES [Procedure] from (9046800, 9046801, 9046802, 9046804, 9046806, 9046900,
        9047002, or 9047004)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH valid_proceduresCTE AS
    (
        SELECT  ProcedureCode   = c.ProcedureCode
        FROM (VALUES  ('9046800')
                    , ('9046801')
                    , ('9046802')
                    --, ('9046803') -- Removed 1 July 2018.
                    , ('9046804')
                    , ('9046900')
                    , ('9047002')
                    , ('9047004')
                    , ('9046806') -- Added July 17: Requested by A.Bent

                    -- NB: 1 July 2018. Removal request for 9046700 & 9047000, but values do
not exist.

        ) c(ProcedureCode)
    )
    , all_procedureCTE AS
    (
        SELECT p.ProcedureCode FROM (VALUES(@principal_procedure)) p(ProcedureCode) WHERE
NULLIF(p.ProcedureCode, '') IS NOT NULL
        UNION
        SELECT ProcedureCode = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT  icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   val IS NOT NULL
        UNION
        SELECT d.icd_code
        FROM (VALUES(@principal_diagnosis)) d(icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
```

```
    SELECT  @IsInValid = CASE
                            WHEN
                                -- 1 July 2018 Date Check
                                [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
                                AND
                                CONVERT(DATE, @separation_date, 126) >= '2017-07-01'

                                AND
                                EXISTS (
                                    -- Note this checks both principal and additional
diagnosis
                                    SELECT TOP (1) 1
                                    FROM all_diagnosisCTE d
                                    WHERE   d.icd_code IN ('O81', 'O841')
                                )
                                AND NOT EXISTS (
                                        SELECT TOP (1) 1
                                        FROM all_procedureCTE p
                                        WHERE   p.ProcedureCode IN (
                                                    SELECT  vp.ProcedureCode
                                                    FROM valid_proceduresCTE vp
                                                )
                                    )
                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2114: [Principal Diagnosis] or [Additional Diagnosis] of (O81, or O841) NOT COMPATIBLE WITH [Procedure] from (9046803, 9047001, 9047003, 9047702, Block 1336, or Block 1340)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = O81, or O841
        AND
        [Procedure] (data item 49_001-49_099) = 9046803, 9047001, 9047003, 9047702, Block
        1336, or Block 1340
)
OR
        (
        [Additional Diagnosis] (data item 46_001-46_099) = O81, or O841
        AND
        [Procedure] (data item 49_001-49_099) = 9046803, 9047001, 9047003, 9047702, Block
        1336, or Block 1340
        )
THEN
        ACCEPT submitted values
        PRINT error message 2114: [Principal Diagnosis] or [Additional Diagnosis] of (O81, or
        O841) NOT COMPATIBLE WITH [Procedure] from (9046803, 9047001, 9047003, 9047702, Block
        1336, or Block 1340)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;

    WITH valid_proceduresCTE AS
    (
        SELECT ProcedureCode = c.icd_code
        FROM [dbo].[vw_Codes_ICD10AM] c
        WHERE c.icd_proc_block IN (
                                      '1336'
                                    , '1340'
                                  )
        UNION
        SELECT ProcedureCode = c.ProcedureCode
        FROM (
                 VALUES ('9046803') -- NEW 1 July 2019
                      -- , ('9046805')  -- QSM #3116
                      -- , ('9046901')  -- QSM #3116
                      , ('9047001')
                      , ('9047003')
                      , ('9047702')
             ) c (ProcedureCode)
    )
    , all_procedureCTE AS
    (
        SELECT p.ProcedureCode
        FROM (
                 VALUES (@principal_procedure)
             ) p (ProcedureCode)
        WHERE NULLIF(p.ProcedureCode, '') IS NOT NULL
        UNION
        SELECT ProcedureCode = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT d.icd_code
```

```
        FROM (
                VALUES (@principal_diagnosis)
             ) d (icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT @IsInValid = CASE
                            WHEN [dbo].[IsYYYYMMDD] (@separation_date, NULL, 0) = 1
                                AND CONVERT (DATE, @separation_date, 126) >= '2017-07-01'
                                AND EXISTS (
                                            -- Note this checks both principal and
additional diagnosis
                                            SELECT TOP (1) 1
                                            FROM all_diagnosisCTE d
                                            WHERE d.icd_code IN (
                                                                 'O81'
                                                               , 'O841'
                                                                )
                                           )
                                AND EXISTS (
                                            SELECT TOP (1) 1
                                            FROM all_procedureCTE p
                                            WHERE p.ProcedureCode IN (
                                                                      SELECT
vp.ProcedureCode
                                                                      FROM
valid_proceduresCTE vp
                                                                     )
                                           ) THEN 1
                            ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Updated 1 July 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2115: [Procedure] from (9046800, 9046801, 9046802, 9046804, 9046806, 9046900, 9047002, or 9047004) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O81, O841, or O8482)

Pseudocode

```
IF
(
	[Procedure] (data item 49_001-49_099) = 9046800, 9046801, 9046802, 9046804, 9046806,
	9046900, 9047002, or 9047004
	AND
	[Principal Diagnosis] (data item 45) <> O81, O841, or O8482
)
OR
(
	[Procedure] (data item 49_001-49_099) = 9046800, 9046801, 9046802, 9046804, 9046806,
	9046900, 9047002, or 9047004
	AND
	[Additional Diagnosis] (data item 46_001-46_099) <> O81, O841, or O8482
)
THEN
	ACCEPT submitted values
	PRINT error message 2115: [Procedure] from (9046800, 9046801, 9046802, 9046804,
	9046806, 9046900, 9047002, or 9047004) REQUIRES [Principal Diagnosis] or [Additional
	Diagnosis] of (O81, O841, or O8482)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    /*
        Note:   Logic has been coded exactly in the same order as it is mentioned in the
specification
                This has been done to keep things simple enough
    */

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_proceduresCTE AS
    (
        SELECT  icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
        UNION
        SELECT d.icd_code FROM (VALUES(@principal_procedure)) d(icd_code) WHERE
NULLIF(d.icd_code, '') IS NOT NULL
    )
    , additional_diagnosisCTE AS
    (
        SELECT  icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN
                                -- 1 July 2018 Date Check
                                [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
                                AND
                                CONVERT(DATE, @separation_date, 126) >= '2017-07-01'

                            AND
                                (
                                    ISNULL(@principal_diagnosis, '') NOT IN ('O81', 'O841',
'O8482')
                                    AND EXISTS
                                    (
                                        SELECT TOP (1) 1
                                        FROM all_proceduresCTE
                                        WHERE    icd_Code BETWEEN '9046800' AND '9046802'
```

```
                                        OR    icd_Code = '9046804'
                                        OR    icd_Code = '9046806' -- Added July 17:
Requested by A.Bent
                                        OR    icd_Code = '9046900'
                                        OR    icd_Code = '9047002'
                                        OR    icd_Code = '9047004'
                                    )
                                )
                            AND
                                (
                                    NOT EXISTS
                                    (
                                       SELECT TOP (1) 1
                                       FROM additional_diagnosisCTE
                                       WHERE    icd_code IN ('O81', 'O841', 'O8482')
                                    )
                                    AND EXISTS
                                    (
                                       SELECT TOP (1) 1
                                       FROM all_proceduresCTE
                                       WHERE    icd_Code BETWEEN '9046800' AND '9046802'
                                           OR    icd_Code = '9046804'
                                           OR    icd_Code = '9046806' -- Added July 17:
Requested by A.Bent
                                           OR    icd_Code = '9046900'
                                           OR    icd_Code = '9047002'
                                           OR    icd_Code = '9047004'
                                    )
                                )
                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2116: [Principal Diagnosis] or [Additional Diagnosis] of (O82, or O842) REQUIRES [Procedure] from (Block 1340)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O82, or O842
        AND
        [Procedure] (data item 49_001-49_099) <> Block 1340
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O82, or O842
        AND
        [Procedure] (data item 49_001-49_099) <> Block 1340
)
THEN
        ACCEPT submitted values
        PRINT error message 2116: [Principal Diagnosis] or [Additional Diagnosis] of (O82, or
        O842) REQUIRES [Procedure] from (Block 1340)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH procblock_CTE AS
    (
        SELECT  icd_Code
        FROM [dbo].[vw_Codes_ICD10AM]
        WHERE icd_proc_block = '1340'
    ),
    all_proc_CTE AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT val
        FROM (VALUES(@principal_procedure)) p(val)
        WHERE NULLIF(p.val, '') IS NOT NULL
    )

    SELECT @IsInValid =

        CASE
             WHEN
                (@principal_diagnosis IN ('O82','O842')
                    OR dbo.ContainsStrings('|O82|O842|',@additional_diagnosis) > 0)

                AND NOT EXISTS
                    (SELECT TOP 1 val
                        FROM all_proc_CTE AP
                            INNER JOIN procblock_CTE PB ON AP.val = PB.icd_code)

                        --AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0) = 1
                        --AND REPLACE(@separation_date,'-','') >= '20170701'
            THEN 1
            ELSE 0
        END

    RETURN @IsInValid

END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2117: [Principal Diagnosis] or [Additional Diagnosis] of (O82, or O842) NOT COMPATIBLE WITH [Procedure] from (9046800, 9046801, 9046802, 9046804, 9046806, 9046900, 9048200, Block 1336 or Block 1339)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O82, or O842
        AND
        [Procedure] (data item 49_001-49_099) = 9046800, 9046801, 9046802, 9046804, 9046806,
        9046900, 9048200, Block 1336 or Block 1339
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O82, or O842
        AND
        [Procedure] (data item 49_001-49_099) = 9046800, 9046801, 9046802, 9046804, 9046806,
        9046900, 9048200, Block 1336 or Block 1339
)
THEN
        ACCEPT submitted values
        PRINT error message 2117: [Principal Diagnosis] or [Additional Diagnosis] of (O82, or
        O842) NOT COMPATIBLE WITH [Procedure] from (9046800, 9046801, 9046802, 9046804,
        9046806, 9046900, 9048200, Block 1336 or Block 1339)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @ret      BIT
   DECLARE @ProcBlock   VARCHAR(2000) ;
   WITH ProcBlckCTE (icd) AS
   (
      SELECT '|' + icd_code
      FROM [dbo].[vw_Codes_ICD10AM]
      WHERE icd_proc_block = '1339'
      FOR XML PATH('')
   )
   SELECT @ProcBlock = icd + '|' FROM ProcBlckCTE
   SELECT @ret = CASE
               WHEN
                  (
                     (@Principal_Diagnosis IN ('O82','O842') AND
dbo.ContainsStrings('|9046800|9046801|9046802|9046804|9046806|9046900|9048200' + @ProcBlock,
LTRIM(RTRIM(@principal_procedure)) + ',' + @Additional_procedure) > 0)
                        OR
                     (dbo.ContainsStrings('|O82|O842|',@Additional_Diagnosis) > 0 AND
dbo.ContainsStrings('|9046800|9046801|9046802|9046804|9046806|9046900|9048200' + @ProcBlock,
LTRIM(RTRIM(@principal_procedure)) + ',' + @Additional_procedure) > 0)
                  )
                  AND [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
                  AND CONVERT(DATE, @separation_date, 126) >= '2017-07-01'

                  THEN 1 -- Added code '9046806' July 17: Requested by A.Bent
                  ELSE 0
               END
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2118: [Procedure] from (Block 1340) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O82, O842, or O8482)

Pseudocode

```
IF
(
        [Procedure] (data item 49_001-49_099) = Block 1340
        AND
        [Principal Diagnosis] (data item 45) <> O82, O842, or O8482
)
OR
(
        [Procedure] (data item 49_001-49_099) = Block 1340
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O82, O842, or O8482
)
THEN
        ACCEPT submitted values
        PRINT error message 2118: [Procedure] from (Block 1340) REQUIRES [Principal Diagnosis]
        or [Additional Diagnosis] of (O82, O842, or O8482)
```

Status

Active.

Implementation

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;
    WITH valid_proceduresCTE AS
    (
        SELECT ProcedureCode = c.icd_code
        FROM [dbo].[vw_Codes_ICD10AM] c
        WHERE c.icd_proc_block IN ('1340')
    )
    , all_procedureCTE AS
    (
        SELECT p.ProcedureCode
        FROM (
                 VALUES (@principal_procedure)
             ) p (ProcedureCode)
        WHERE NULLIF(p.ProcedureCode, '') IS NOT NULL
        UNION
        SELECT ProcedureCode = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT d.icd_code
        FROM (
                 VALUES (@principal_diagnosis)
             ) d (icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT @IsInValid = CASE
                            WHEN    NOT EXISTS (
                                        -- Note this checks both principal and additional
diagnosis
                                        SELECT TOP (1) 1
                                        FROM all_diagnosisCTE d
                                        WHERE d.icd_code IN ('O82', 'O842', 'O8482')
                                    )
                                AND EXISTS (
                                        SELECT TOP (1) 1
                                        FROM all_procedureCTE p
                                        WHERE p.ProcedureCode IN (SELECT vp.ProcedureCode FROM
valid_proceduresCTE vp)
                                    )
```

```
                            THEN 1
                            ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2160: [Sex] not (1, 2, or 3)

Pseudocode

```
IF
(
        [Sex] (data item 08) <> 1 (Male)
        AND
        [Sex] (data item 08) <> 2 (Female)
        AND
        [Sex] (data item 08) <> 3 (Indeterminate)
)
THEN
        ACCEPT submitted record
        PRINT error message 2160: [Sex] not (1, 2, or 3)
```

Status

Inactive. Retired 1 July 2022.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Sex in codes.domain dc_Field_Name 'Sex' dc_Code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2161: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in system reference table with [Sex Flag] of (1) for [Principal Diagnosis] or [Additional Diagnosis]

Pseudocode

```
IF
       [Sex] <> ([Sex] in system reference table with [Sex Flag] = 1 for [Principal
       Diagnosis] (data item 45) or [Additional Diagnosis] (data item 46_001-46_099))
THEN
       ACCEPT submitted values
       PRINT error message 2161: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in
       system reference table with [Sex Flag] of (1) for [Principal Diagnosis] or [Additional
       Diagnosis]
```

Status

Inactive. Retired 1 July 2022.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(((Principal_Diagnosis in vw_Codes_ICD10AM icd_Sex 'F' icd_Code and
Principal_Diagnosis in vw_Codes_ICD10AM icd_Sex_flag '1' icd_Code ) or (
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM icd_Sex 'F'
icd_Code and --26
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM icd_Sex_flag
'1' icd_Code )) and --26
(Sex <> '2' )) or
(((Principal_Diagnosis in vw_Codes_ICD10AM icd_Sex 'M' icd_Code and
Principal_Diagnosis in vw_Codes_ICD10AM icd_Sex_flag '1' icd_Code ) or (
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM icd_Sex 'M'
icd_Code and --26
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM icd_Sex_flag
'1' icd_Code )) and --26
(Sex <> '1' ))
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2162: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in system reference table with [Sex Flag] of (1) for [Procedure]

Pseudocode

```
IF
       [Sex] <> ([Sex] in system reference table with [Sex Flag] = 1 for [Procedure] (data
       item 49_001-49_099))
THEN
       ACCEPT submitted values
       PRINT error message 2162: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in
       system reference table with [Sex Flag] of (1) for [Procedure]
```

Status

Inactive. Retired 1 July 2022.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret BIT ;
    ---declare @s varchar(1000)
    --set
@s=@date_transfer_to_discharge_lounge_original+'|'+@time_transfer_to_discharge_lounge_original
    --exec xp_logevent 50001,@s ----expect date like ddmmyyyy and time like hhmm
    IF EXISTS (
                  SELECT 1
                  FROM HealthValidator.dbo.vw_Codes_ICD10AM y
                  INNER JOIN (
                                (SELECT val
                                 FROM dbo.ValidateDelimitedField (@additional_procedure, ',',
1, 101) )
                                UNION
                                (SELECT @Principal_procedure AS val)
                           )                                    AS x
                      ON y.icd_code          = x.val
                          AND y.icd_sex      = (CASE
                                                    WHEN @Sex = '1' THEN 'F'
                                                    ELSE 'M'
                                                END
                                               )
                          AND y.icd_sex_flag = 1
              )
    BEGIN
        SET @ret = 1 ;
    END ;
    ELSE
    BEGIN
        SET @ret = 0 ;
    END ;

    RETURN @ret ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2163: [Principal Diagnosis] or [Additional Diagnosis] of (O00-O998, or Z340-Z349) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z33)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O00-O998, or Z340-Z349
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z33
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O00-O998, or Z340-Z349
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z33
)
THEN
        ACCEPT submitted values
        PRINT error message 2163: [Principal Diagnosis] or [Additional Diagnosis] of (O00-
        O998, or Z340-Z349) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z33)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid =    CASE
                                WHEN
                                    (
                                        (
                                            (
                                                @principal_diagnosis BETWEEN 'O00' AND 'O998'
                                                OR
                                                (SELECT TOP 1 val FROM
dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val BETWEEN 'O00' AND
'O998') IS NOT NULL
                                            )
                                        OR
                                            (
                                                @principal_diagnosis BETWEEN 'Z340' AND 'Z349'
                                                OR
                                                (SELECT TOP 1 val FROM
dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val BETWEEN 'Z340' AND
'Z349') IS NOT NULL
                                            )
                                        )
                                    AND dbo.ContainsStrings('|Z33|',@additional_diagnosis) > 0
                                    )

                                    --AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
                                    --AND REPLACE(@separation_date,'-','') >= '20190701'

                                THEN 1
                                ELSE 0
                            END ;

    RETURN @IsInValid ;
END ;
```

Issue

Functionality change due to ICD-10-AM 11th Edition implementation

Allows for up to 100 diagnosis codes and 100 procedure codes are to be supplied from the Patient Administration System.

Update data quality check

Updated.

Result

The pseudocode for this data quality check has been changed.

The error message for this data quality check has been changed.

The code to be implemented has been changed.

Action

The error message for this data quality check has been updated.

The implemented code for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2164: [Principal Diagnosis] or [Additional Diagnosis] of (O00-O998, Z33 or Z340-Z349) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z340-Z349)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O00-O998 or Z33
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z340-Z349
)
OR
(
        [Additional Diagnosis] (data item 49_001-49_099) = O00-O998 or Z33
        AND
        [Additional Diagnosis] (data item 49_001-49_099) = Z340-Z349
)
THEN
        ACCEPT submitted record
        PRINT error message 2164: [Principal Diagnosis] or [Additional Diagnosis] of (O00-
        O998, Z33 or Z340-Z349) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z340-Z349)
```

Status

New.

Implementation

None.

Issue

Proposed as a new data quality check.

Update data quality check

None

Result

This is proposed as a new data quality check.

Action

Implement and create code as a function.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2170: Age at admission of (≤27 days) REQUIRES [Admission Weight]

Pseudocode

```
IF
	[Admission Date] (data item 21) - [Date Of Birth] (data item 09) < 28 days
AND
	[Admission Weight] (data item 11) = 9999, or is blank
THEN
	ACCEPT submitted record
	PRINT error message 2170: Age at admission of (≤27 days) REQUIRES [Admission Weight]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
DATEDIFF(dd, date_of_birth,Admission_Date) ≤27 and
(Isnumeric(coalesce(nullif(rtrim(replace(admission_weight_grams,'0','')),''),NULL)) = 0 or
admission_weight_grams = '9999' )
```

Issue

None.

Update data quality check

Updated 1 July 2023 to reflect where age at admission ≤27 days.

Result

None.

Action

None.

2175: [Admission Weight] differs between records to be bundled for baby bundling

Pseudocode

```
IF
       [Admission Weight] on any of the records to be bundled differs from the other records
       to be bundled
THEN
       ACCEPT submitted record
       PRINT ERROR message 2175: [Admission Weight] differs between records to be bundled for
       baby bundling
```

Status

Does not exist.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2180: [Hours On Mechanical Ventilation] (< 0 or > 99999 hours)

Pseudocode

```
IF
       [Hours On Mechanical Ventilation] (data item 41) < 0000 or > 99999
THEN
       ACCEPT submitted record
       PRINT error message 2180: [Hours On Mechanical Ventilation] (< 0 or > 99999 hours)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@hours_on_mechanical_ventilation ---expect #####
select @ret = case
   when isnumeric(isnull(@hours_on_mechanical_ventilation,'NULL')) = 0 then 1
   when LEN(ltrim(rtrim(@hours_on_mechanical_ventilation)))<>5 then 1
   else
      case
      when not (convert(int,@hours_on_mechanical_ventilation) between 0 and 99999 ) then 1
      else 0
      end
end
return @ret
end
```

Issue

None.

Update data quality check

Increase field size to NNNNN.

Result

None.

Action

None.

2190: [Leave From Date] & [Leave From Time] < [Admission Date] & [Admission Time], or [Leave From Date] & [Leave From Time] > [Separation Date] & [Separation Time]

Pseudocode

```
IF
(
        [Leave From Date] (data item 32, 34, 36, or 38)
        &
        [Leave From Time] (data item 73, 75, 77, or 79)
) <
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
OR
(
        [Leave From Date] (data item 32, 34, 36, or 38)
        &
        [Leave From Time] (data item 73, 75, 77, or 79)
) >
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
THEN
        ACCEPT submitted record
        PRINT error message 2190: [Leave From Date] & [Leave From Time] < [Admission Date] &
        [Admission Time], or [Leave From Date] & [Leave From Time] > [Separation Date] &
        [Separation Time]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
declare @s varchar(1000)
---convert NULLs so we can display to log if we feel like
--set
@s=ISNULL(@leave_to_date_time_1,'NULL')+'|'+ISNULL(@leave_to_date_time_2,'NULL')+'|'+ISNULL(@l
eave_to_date_time_3,'NULL')+ISNULL(@leave_to_date_time_4,'NULL')
--set
@s=@s+'|'+ISNULL(@leave_from_date_time_1,'NULL')+'|'+ISNULL(@leave_from_date_time_2,'NULL')+'|
'+ISNULL(@leave_from_date_time_3,'NULL')+ISNULL(@leave_from_date_time_4,'NULL')
--set @s=@s+'|'+ISNULL(@admission_date_time,'NULL')+'|'+ISNULL(@separation_date_time,'NULL')
--exec xp_logevent 50001,@s expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM or
null
if (ISDATE(@admission_date_time)&ISDATE(@separation_date_time)) =1
begin
select @ret = case
   when ISDATE(@leave_from_date_time_1) =1 then
   case when (convert(datetime,@leave_from_date_time_1) <
convert(datetime,@admission_date_time )) OR
             (convert(datetime,@leave_from_date_time_1) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
select @ret = @ret|case
   when ISDATE(@leave_from_date_time_2) =1 then
   case when (convert(datetime,@leave_from_date_time_2) <
convert(datetime,@admission_date_time )) OR
             (convert(datetime,@leave_from_date_time_2) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
```

```
select @ret = @ret|case
   when ISDATE(@leave_from_date_time_3) =1 then
   case when (convert(datetime,@leave_from_date_time_3) <
convert(datetime,@admission_date_time )) OR
            (convert(datetime,@leave_from_date_time_3) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
select @ret = @ret|case
   when ISDATE(@leave_from_date_time_4) =1 then
   case when (convert(datetime,@leave_from_date_time_4) <
convert(datetime,@admission_date_time )) OR
            (convert(datetime,@leave_from_date_time_4) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2200: [Leave To Date] & [Leave To Time] < [Admission Date] & [Admission Time], or [Leave To Date] & [Leave To Time] > [Separation Date] & [Separation Time]

Pseudocode

```
IF
(
        [Leave To Date] (data item 33, 35, 37, 39)
        &
        [Leave To Time] (data item 74, 76, 78, or 80)
) <
(
        [Admission Date] (data item 21)
        &
        [Admission Time] (data item 67)
)
OR
(
        [Leave To Date] (data item 33, 35, 37, 39)
        &
        [Leave To Time] (data item 74, 76, 78, or 80)
) >
(
        [Separation Date] (data item 43)
        &
        [Separation Time] (data item 70)
)
THEN
        ACCEPT submitted record
        PRINT error message 2200: [Leave To Date] & [Leave To Time] < [Admission Date] &
        [Admission Time], or [Leave To Date] & [Leave To Time] > [Separation Date] &
        [Separation Time]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
declare @s varchar(1000)
---convert NULLs so we can display to log if we feel like
--set
@s=ISNULL(@leave_to_date_time_1,'NULL')+'|'+ISNULL(@leave_to_date_time_2,'NULL')+'|'+ISNULL(@l
eave_to_date_time_3,'NULL')+ISNULL(@leave_to_date_time_4,'NULL')
--set
@s=@s+'|'+ISNULL(@leave_from_date_time_1,'NULL')+'|'+ISNULL(@leave_from_date_time_2,'NULL')+'|
'+ISNULL(@leave_from_date_time_3,'NULL')+ISNULL(@leave_from_date_time_4,'NULL')
--set @s=@s+'|'+ISNULL(@admission_date_time,'NULL')+'|'+ISNULL(@separation_date_time,'NULL')
--exec xp_logevent 50001,@s expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM or
null
if (ISDATE(@admission_date_time)&ISDATE(@separation_date_time)) =1
begin
select @ret = case
   when ISDATE(@leave_to_date_time_1) =1 then
   case when (convert(datetime,@leave_to_date_time_1) < convert(datetime,@admission_date_time
)) OR
             (convert(datetime,@leave_to_date_time_1) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
select @ret = @ret|case
   when ISDATE(@leave_to_date_time_2) =1 then
   case when (convert(datetime,@leave_to_date_time_2) < convert(datetime,@admission_date_time
)) OR
             (convert(datetime,@leave_to_date_time_2) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
```

```
select @ret = @ret|case
   when ISDATE(@leave_to_date_time_3) =1 then
   case when (convert(datetime,@leave_to_date_time_3) < convert(datetime,@admission_date_time
)) OR
             (convert(datetime,@leave_to_date_time_3) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
select @ret = @ret|case
   when ISDATE(@leave_to_date_time_4) =1 then
   case when (convert(datetime,@leave_to_date_time_4) < convert(datetime,@admission_date_time
)) OR
             (convert(datetime,@leave_to_date_time_4) >
convert(datetime,@separation_date_time))
   then 1 else 0 end
   else 0 ---do not report on invalid date
   end
end
else  ---do not report on invalid admission/sep date
begin
   set @ret=0
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2210: [Leave From Date] and/or [Leave To Date] format is INVALID, or [Leave To Date] < [Leave From Date]

Pseudocode

```
IF
	[Leave To Date] (data item 33, 35, 37, or 39) < [Leave From Date] (data item 32, 34,
	36, or 38)
OR
(
	[Leave To Date] (data item 33, 35, 37, or 39) is a valid date
	AND
	[Leave From Date] (data item 32, 34, 36, or 38) is blank
)
OR
(
	[Leave From Date] (data item 32, 34, 36, or 38) is a valid date
	AND
	[Leave To Date] (data item 33, 35, 37, or 39) is blank
)
THEN
	ACCEPT submitted record
	PRINT error message 2210: [Leave From Date] and/or [Leave To Date] format is INVALID,
	or [Leave To Date] < [Leave From Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
declare @s varchar(1000)
/*
---convert NULLs so we can display to log if we feel like
--set
@s=ISNULL(@leave_to_date_time_1,'NULL')+'|'+ISNULL(@leave_to_date_time_2,'NULL')+'|'+ISNULL(@l
eave_to_date_time_3,'NULL')+ISNULL(@leave_to_date_time_4,'NULL')
--set
@s=@s+'|'+ISNULL(@leave_from_date_time_1,'NULL')+'|'+ISNULL(@leave_from_date_time_2,'NULL')+'|
'+ISNULL(@leave_from_date_time_3,'NULL')+ISNULL(@leave_from_date_time_4,'NULL')
--exec xp_logevent 50001,@s ---expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM
*/
select @ret = case
   when (ISDATE(@leave_to_date_time_1) & ISDATE(@leave_from_date_time_1))=1 then  ---both are
dates
   case when convert(datetime,@leave_to_date_time_1) <
convert(datetime,@leave_from_date_time_1) then 1 else 0  end
   else
   case
      when ((@leave_to_date_time_1 is null) and ISDATE(@leave_from_date_time_1)=1) then 1
      when ((@leave_from_date_time_1 is null) and ISDATE(@leave_to_date_time_1)=1) then 1
      else 0
   end
   end
select @ret = @ret+case
   when (ISDATE(@leave_to_date_time_2) & ISDATE(@leave_from_date_time_2))=1 then  ---both are
dates
   case when convert(datetime,@leave_to_date_time_2) <
convert(datetime,@leave_from_date_time_2) then 1 else 0  end
   else
   case
      when ((@leave_to_date_time_2 is null) and ISDATE(@leave_from_date_time_2)=1) then 1
      when ((@leave_from_date_time_2 is null) and ISDATE(@leave_to_date_time_2)=1) then 1
      else 0
   end
   end
select @ret = @ret+case
   when (ISDATE(@leave_to_date_time_3) & ISDATE(@leave_from_date_time_3))=1 then  ---both are
dates
```

```
   case when convert(datetime,@leave_to_date_time_3) <
convert(datetime,@leave_from_date_time_3) then 1 else 0  end
   else
   case
      when ((@leave_to_date_time_3 is null) and ISDATE(@leave_from_date_time_3)=1) then 1
      when ((@leave_from_date_time_3 is null) and ISDATE(@leave_to_date_time_3)=1) then 1
      else 0
   end
   end
select @ret = @ret+case
   when (ISDATE(@leave_to_date_time_4) & ISDATE(@leave_from_date_time_4))=1 then  ---both are
dates
   case when convert(datetime,@leave_to_date_time_4) <
convert(datetime,@leave_from_date_time_4) then 1 else 0  end
   else
   case
      when ((@leave_to_date_time_4 is null) and ISDATE(@leave_from_date_time_4)=1) then 1
      when ((@leave_from_date_time_4 is null) and ISDATE(@leave_to_date_time_4)=1) then 1
      else 0
   end
   end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2220: [Leave From Date] format is INVALID

Pseudocode

```
IF
	[Leave From Date] (data item 32, 34, 36, or 38) is an invalid date
THEN
	ACCEPT submitted record
	PRINT error message 2220: [Leave From Date] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
declare @s varchar(1000)
---convert NULLs so we can display to log if we feel like
select
@leave_from_date_1_original=ISNULL(@leave_from_date_1_original,'NULL'),
@leave_from_date_2_original=ISNULL(@leave_from_date_2_original,'NULL'),
@leave_from_date_3_original=ISNULL(@leave_from_date_3_original,'NULL'),
@leave_from_date_4_original=ISNULL(@leave_from_date_4_original,'NULL')
--set
@s=@leave_from_date_1+'|'+@leave_to_date_1+'|'+@leave_from_date_2+'|'+@leave_to_date_2+'|'+@le
ave_from_date_3+'|'+@leave_to_date_3+'|'+@leave_from_date_4+'|'+@leave_to_date_4
--exec xp_logevent 50001,@s ---expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM
---We use a NAND function that is not and by using 1 XOR (AND EXPRESSION)
select @ret = 1 ^ (Dbo.IsDDMMYYYY(@leave_from_date_1_original,'00000000',0) &
Dbo.IsDDMMYYYY(@leave_from_date_2_original,'00000000',0) &
Dbo.IsDDMMYYYY(@leave_from_date_3_original,'00000000',0) &
Dbo.IsDDMMYYYY(@leave_from_date_4_original,'00000000',0) )
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2230: [Leave To Date] format is INVALID

Pseudocode

```
IF
	[Leave To Date] (data item 33, 35, 37, or 39) is an invalid date
THEN
	ACCEPT submitted record
	PRINT error message 2230: [Leave To Date] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
declare @s varchar(1000)
---convert NULLs so we can display to log if we feel like
select
@leave_to_date_1_original=ISNULL(@leave_to_date_1_original,'NULL'),
@leave_to_date_2_original=ISNULL(@leave_to_date_2_original,'NULL'),
@leave_to_date_3_original=ISNULL(@leave_to_date_3_original,'NULL'),
@leave_to_date_4_original=ISNULL(@leave_to_date_4_original,'NULL')
--set
@s=@leave_to_date_1+'|'+@leave_to_date_1+'|'+@leave_to_date_2+'|'+@leave_to_date_2+'|'+@leave_to_date_3+'|'+@leave_to_date_3+'|'+@leave_to_date_4+'|'+@leave_to_date_4
--exec xp_logevent 50001,@s ---expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM
---We use a NAND function that is not and by using 1 XOR (AND EXPRESSION)
select @ret = 1 ^ (Dbo.IsDDMMYYYY(@leave_to_date_1_original,'00000000',0) &
Dbo.IsDDMMYYYY(@leave_to_date_2_original,'00000000',0) &
Dbo.IsDDMMYYYY(@leave_to_date_3_original,'00000000',0) &
Dbo.IsDDMMYYYY(@leave_to_date_4_original,'00000000',0) )
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2240: [Admission Date] = [Separation Date], and [Admission Time] > [Separation Time]

Pseudocode

```
IF
	[Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
	[Admission Time] (data item 67) > [Separation Time] (data item 70)
THEN
	ACCEPT submitted record
	PRINT error message 2240: [Admission Date] = [Separation Date], and [Admission Time] >
	[Separation Time]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(convert(date,Admission_date,103) = convert(date,Separation_date,103) and
Admission_time >= Separation_time )and
nullif(Admission_time,'') is not null
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2250: Age at admission > (124 years) NOT COMPATIBLE WITH [Date of Birth] not (01-Jul-1890) and [Date Of Birth Accuracy Flag] not (2)

Pseudocode

```
IF
        Age at admission > 124 years
AND
        [Date Of Birth Accuracy Flag] (data item 91) <> 2 (Estimate / Incomplete)
AND
        [Date Of Birth] (data item 09) <> 01/07/1890
THEN
        ACCEPT submitted record
        PRINT error message 2250: Age at admission > (124 years) NOT COMPATIBLE WITH [Date Of
        Birth] not (01-Jul-1890), and [Date Of Birth Accuracy Flag] not (2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    SELECT  @IsInValid = CASE
                            WHEN    [dbo].[IsYYYYMMDD](@date_of_birth, NULL, 0) = 1
                                AND ISDATE(@admission_date_time) = 1
                                AND DATEDIFF(YEAR, @date_of_birth, CONVERT(DATETIME,
@admission_date_time)) > 124
                                AND ISNULL(@date_of_birth_accuracy_flag, '') <> '2'
                                AND @date_of_birth <> '1890-07-01'
                            THEN 1
                            ELSE 0
                         END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2255: Age at admission > (9 days) NOT COMPATIBLE WITH [Episode Of Care] of (5, or 6)

Pseudocode

```
IF
	Age at admission > 9 days
AND
(
	[Episode Of Care] (data item 51) = 5 (Unqualified newborn)
	OR
	[Episode Of Care] (data item 51) = 6 (Qualified newborn)
)
THEN
	ACCEPT submitted values
	PRINT error message 2255: Age at admission > (9 days) NOT COMPATIBLE WITH [Episode Of
	Care] of (5, or 6)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0
    SELECT   @IsInValid = CASE
                          WHEN   [dbo].[IsYYYYMMDD](@date_of_birth, NULL, 0) = 1
                        AND [dbo].[IsYYYYMMDD](@admission_date, NULL, 0) = 1
                        AND DATEDIFF(DD, @date_of_birth, @admission_date) > 9
                        AND @episode_of_care IN ('5','6')
                        AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                        AND REPLACE(@separation_date,'-','') >= '20160701'
                          THEN 1
                          ELSE 0
                         END ;
    RETURN   @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2256: Length Of Stay > (9 days) NOT COMPATIBLE WITH [Episode Of Care] of (5)

Pseudocode

```
IF
        Length Of Stay > 9 days
AND
        [Episode Of Care] (data item 51) = 5 (Unqualified newborn)
THEN
        ACCEPT submitted values
        PRINT error message 2256: Length Of Stay > (9 days) NOT COMPATIBLE WITH [Episode Of
        Care] of (5)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE    @IsInValid    SMALLINT = 0 ;

    IF    (
            @length_of_stay_in_days > 9
            AND
            @episode_of_care = '5'

            -- AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
            -- AND REPLACE(@separation_date,'-','') >= '20180701'
        )

    BEGIN
        SET @IsInValid = 1
    END ;

    RETURN @IsInValid ;

END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2260: [Hours In ICU] > Length of stay in hours

Pseudocode

```
IF
       [Hours In ICU] (data item 40) > Length of stay in hours
THEN
       ACCEPT submitted record
       PRINT error message 2260: [Hours In ICU] > Length of stay in hours
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInvalid INT ;
   SELECT @IsInvalid = CASE
   WHEN (ISNUMERIC(@hours_in_intensive_care_unit) = 1 AND ISNUMERIC(@length_of_stay_in_hours)
= 1)
      AND CONVERT(decimal(7,2),@hours_in_intensive_care_unit) >
CONVERT(decimal(12,2),@length_of_stay_in_hours)
      AND NULLIF(@admission_time,'') IS NOT NULL
      THEN 1
      ELSE 0
   END
RETURN @IsInvalid
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2270: [Hours On Mechanical Ventilation] > Length of stay in hours

Pseudocode

```
IF
       [Hours On Mechanical Ventilation] (data item 41) > Length of stay in hours
THEN
       ACCEPT submitted record
       PRINT error message 2270: [Hours On Mechanical Ventilation] > Length of stay in hours
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@hours_on_mechanical_ventilation ---expect ####
select @ret = case
   when isnumeric(isnull(@hours_on_mechanical_ventilation,'NULL')) = 0 OR
ISNUMERIC(ISNULL(@Length_of_Stay_in_Hours,'null')) = 0 OR
LEN(@hours_on_mechanical_ventilation)<>4 then 0
   else
      case
      when convert(int,@hours_on_mechanical_ventilation)>convert(int,@Length_of_Stay_in_Hours)
then 1
      else 0
      end
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2280: [Veteran Card Type] of (G, W, or N), [Funding Source] = (04), and [Veteran Card Number] is blank, or invalid format

Pseudocode

```
IF
(
        [Veteran Card Type] (data item 31) = G (Gold: DVA Health Card - For all conditions)
        OR
        [Veteran Card Type] (data item 31) = W (White: DVA Health Card - For specific
        conditions)
        OR
        [Veteran Card Type] (data item 31) = N (Not available)
)
OR
        [Funding Source] (data item 95) = 04 (Veteran)
)
AND
(
        [Veteran Card Number] (data item 69) is blank
        OR
        [Veteran Card Number] (data item 69) is invalid
)
THEN
        ACCEPT submitted record
        PRINT error message 2280: [Veteran Card Type] of (G, W, or N) or [Funding Source] =
        (04), and [Veteran Card Number] is blank, or invalid
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
/*
declare @s varchar(1000)
set @s=RIGHT([separation_date], 4) + SUBSTRING([separation_date], 3, 2) +
LEFT([separation_date], 2)+'<'+convert(varchar(10),dateadd(yy,-10,getdate()),112)
exec xp_logevent 50001,@s
*/
---exec xp_logevent 50001,@Separation_Date
select @ret= case when (
(@veteran_card IN ('G','W','N') OR @Funding_Source ='04') AND
nullif(ltrim(rtrim(@veteran_identification_number)),'') IS NULL
) then 1
Else 0
end
return @ret
end
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

2285: [Funding Source] of (04) AND [Episode of Care] of (1) for [Hospital Number] of (< 4000) NOT COMPATIBLE WITH [Principal Diagnosis] (Z742)

Pseudocode

```
IF
        [Hospital Number] (data item 01) < 4000
AND
        [Funding Source] (Data item 95) = 04 (Veteran)
AND
        [Episode of Care] (Data item 51) = 1 (Acute)
AND
        [Principal Diagnosis] (Data item 45) = Z742
THEN
        ACCEPT submitted record
        PRINT error message: 2285: [Funding Source] of (04) AND [Episode of Care] of (1) for
        [Hospital Number] of (< 4000) NOT COMPATIBLE WITH [Principal Diagnosis] (Z742)
```

Status

Active.

Implementation

March 2021

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2290: [Veteran Card Number] War Code INVALID for [Hospital Number] of (< 4000)

Pseudocode

```
IF
(
        LEFT([Veteran Card Number] (data item 69), 1) <> N (New South Wales)
        AND
        LEFT([Veteran Card Number] (data item 69), 1) <> Q (Queensland)
        AND
        LEFT([Veteran Card Number] (data item 69), 1) <> S (South Australia)
        AND
        LEFT([Veteran Card Number] (data item 69), 1) <> T (Tasmania)
        AND
        LEFT([Veteran Card Number] (data item 69), 1) <> V (Victoria)
        AND
        LEFT([Veteran Card Number] (data item 69), 1) <> W (Western Australia)
)
OR
(
        MID([Veteran Card Number] (data item 69), 2, 7) contains O
        AND
        MID([Veteran Card Number] (data item 69), 2, 7) does not contain PWO
)
OR
(
        (
        MID([Veteran Card Number] (data item 69), 2, 1) <> A (Allied Forces)
               AND
        MID([Veteran Card Number] (data item 69), 2, 1) <> N (New Zealand 1914)
        AND
        MID([Veteran Card Number] (data item 69), 2, 1) <> P (British Pension 1914)
        AND
        MID([Veteran Card Number] (data item 69), 2, 1) <> Q (Query)
        AND
        MID([Veteran Card Number] (data item 69), 2, 1) <> X (Australian Forces 1939)
        )
        OR
        (
        MID([Veteran Card Number] (data item 69), 2, 2) <> BW (Boer War)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> CN (Canadian Forces 1914)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> GW (Australian Gulf War)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> IV (Indigenous Veteran 1939)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> KM (Korea-Malaya)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> NF (Newfoundland)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> NG (New Guinea Civilian War
               Pension)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> NK (New Zealand Korea-Malaya)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> NX (New Zealand 1939)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> PK (British Korea/Malaya)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> PX (British Pension 1939)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> RD (Southern Rhodesia 1939)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> SA (South African Forces 1949)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> SL (Sierra Leone)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> SM (Serving Member)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> SR (Far East Strategic Reserve)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> SS (Special Overseas Act)
        AND
        MID([Veteran Card Number] (data item 69), 2, 2) <> ZZ (Zanzibar)
        )
```

```
OR
(
MID([Veteran Card Number] (data item 69), 2, 3) <> AGX (Act of Grace 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> BUR (Burma)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> CGW (Commonwealth Gulf War)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> CIV (Civilians)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> CNK (Canada Korea/Malaya)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> CNS (Canada Special Overseas
Service)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> CNX (Canadian Forces 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> FIJ (Fiji)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> GHA (Ghana)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> HKS (Hong Kong (SP Eligibility))
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> HKX (Hong Kong 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> IND (India)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> KYA (Kenya)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> MAL (Malaya-Singapore)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> MAU (Mauritius)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> MLS (Malaysia - Singapore SP
Eligibility)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> MTX (Malta 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> MWI (Malawi)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> NGR (Nigeria)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> NRD (Northern Rhodesia)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> NSM (New Zealand Serving Members)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> NSS (New Zealand Special Overseas
Service)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> NSW (New Zealand Merchant Navy)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PAD (British Admiralty Pension)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PAM (British Air Ministry Pension)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PCA (Governments and
Administration)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PCR (British Service Department -
CRO)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PCV (British Pension Civilian)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PMS (British Merchant Seaman 1914)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PSM (British Serving Members)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PSW (British Merchant Seaman 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> PWO (British War Offices Pension)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> RDX (Southern Rhodesia 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> SAX (South African Forces 1939)
AND
MID([Veteran Card Number] (data item 69), 2, 3) <> SUD (Sudan)
AND
```

```
        MID([Veteran Card Number] (data item 69), 2, 3) <> SWP (Seamans War Pension 1939)
        AND
        MID([Veteran Card Number] (data item 69), 2, 3) <> TZA (Tanganyika (Tanzania))
        )
)
AND
        [Hospital Number] (data item 01) < 4000
THEN
        ACCEPT submitted values
        PRINT error message 2290: [Veteran Card Number] War Code INVALID for [Hospital Number]
        of (< 4000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

   SELECT @IsInValid = CASE WHEN (
            @veteran_identification_number != UPPER(@veteran_identification_number) COLLATE
Latin1_General_CS_AI
            OR LEFT(@veteran_identification_number,1) NOT IN ('Q','N','S','T','V','W')
            --OR SUBSTRING(LTRIM(@veteran_identification_number),2,7) LIKE '%O%'
                OR  (
                        SUBSTRING(LTRIM(@veteran_identification_number),2,7) LIKE '%O%'
                        AND SUBSTRING(LTRIM(@veteran_identification_number),2,3) <> 'PWO'
                    ) OR
             (
                SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[A][0-9][0-
9][0-9][0-9][0-9][0-9]')      -- A  : Allied Forces
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[X][0-9][0-
9][0-9][0-9][0-9][0-9]') -- X  : Australian Forces 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[P][X][0-
9][0-9][0-9][0-9][0-9]')    -- PX : British Pension 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[S][S][0-
9][0-9][0-9][0-9][0-9]')    -- SS : Special Overseas Act
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[S][M][0-
9][0-9][0-9][0-9][0-9]')    -- SM : Serving Member
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][S][W][0-9][0-9][0-9][0-9]')      -- PSW: British Merchant Seaman 1939
                -- 1 July 18
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[K][M][0-
9][0-9][0-9][0-9][0-9]')    -- KM : Korea-Malaya
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[S][R][0-
9][0-9][0-9][0-9][0-9]')    -- SR : Far East Strategic Reserve
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[S][W][P][0-9][0-9][0-9][0-9]')      -- SWP: Seamans War Pension 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[P][K][0-
9][0-9][0-9][0-9][0-9]')    -- PK : British Korea/Malaya
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][S][M][0-9][0-9][0-9][0-9]')      -- PSM: British Serving Members
                -- QSM 1164
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[0-9][0-
9][0-9][0-9][0-9][0-9][0-9]')
                -- QSM 1530
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[N][S][M][0-9][0-9][0-9][0-9]')      -- NSM: New Zealand Serving Members
                -- QSM 1549
http://www.dva.gov.au/sites/default/files/files/publications/health/PHacts/PHactsNov2014.pdf
p. 5
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[A][G][X][0-9][0-9][0-9][0-9]')      -- AGX: Act of Grace 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[B][U][R][0-9][0-9][0-9][0-9]')      -- BUR: Burma
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[B][W][0-
9][0-9][0-9][0-9][0-9]')    -- BW : Boer War
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[C][G][W][0-9][0-9][0-9][0-9]')      -- CGW: Commonwealth Gulf War
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[C][I][V][0-9][0-9][0-9][0-9]')      -- CIV: Civilians
```

```
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[C][N][0-
9][0-9][0-9][0-9][0-9]')    -- CN : Canadian Forces 1914
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[C][N][K][0-9][0-9][0-9][0-9]')      -- CNK: Canada Korea/Malaya
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[C][N][S][0-9][0-9][0-9][0-9]')      -- CNS: Canada Special Overseas Service
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[C][N][X][0-9][0-9][0-9][0-9]')      -- CNX: Canadian Forces 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[F][I][J][0-9][0-9][0-9][0-9]')      -- FIJ: Fiji
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[G][H][A][0-9][0-9][0-9][0-9]')      -- GHA: Ghana
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[G][W][0-
9][0-9][0-9][0-9][0-9]')    -- GW : Australian Gulf War
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[H][K][S][0-9][0-9][0-9][0-9]')      -- HKS: Hong Kong (SP Eligibility)
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[H][K][X][0-9][0-9][0-9][0-9]')      -- HKX: Hong Kong 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[I][N][D][0-9][0-9][0-9][0-9]')      -- IND: India
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[I][V][0-
9][0-9][0-9][0-9][0-9]')    -- IV : Indigenous Veteran 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[K][Y][A][0-9][0-9][0-9][0-9]')      -- KYA: Kenya
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[M][A][L][0-9][0-9][0-9][0-9]')      -- MAL: Malaya-Singapore
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[M][A][U][0-9][0-9][0-9][0-9]')      -- MAU: Mauritius
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[M][L][S][0-9][0-9][0-9][0-9]')      -- MLS: Malaysia - Singapore SP Eligibility
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[M][T][X][0-9][0-9][0-9][0-9]')      -- MTX: Malta 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[M][W][I][0-9][0-9][0-9][0-9]')      -- MWI: Malawi
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[N][0-9][0-
9][0-9][0-9][0-9][0-9]') -- N  : New Zealand
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[N][F][0-
9][0-9][0-9][0-9][0-9]')    -- NF : Newfoundland
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[N][G][0-
9][0-9][0-9][0-9][0-9]')    -- NG : New Guinea Civilian War Pension
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[N][G][R][0-9][0-9][0-9][0-9]')      -- NGR: Nigeria
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[N][K][0-
9][0-9][0-9][0-9][0-9]')    -- NK : New Zealand Korea-Malaya
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[N][R][D][0-9][0-9][0-9][0-9]')      -- NRD: Northern Rhodesia
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[N][S][S][0-9][0-9][0-9][0-9]')      -- NSS: New Zealand Special Overseas Service
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[N][S][W][0-9][0-9][0-9][0-9]')      -- NSW: New Zealand Merchant Navy
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[N][X][0-
9][0-9][0-9][0-9][0-9]')    -- NX : New Zealand 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[P][0-9][0-
9][0-9][0-9][0-9][0-9]') -- P  : British Pension 1914
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][A][D][0-9][0-9][0-9][0-9]')      -- PAD: British Admiralty Pension
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][A][M][0-9][0-9][0-9][0-9]')      -- PAM: British Air Ministry Pension
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][C][A][0-9][0-9][0-9][0-9]')      -- PCA: Governments and Administration
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][C][R][0-9][0-9][0-9][0-9]')      -- PCR: British Service Department - CRO
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][C][V][0-9][0-9][0-9][0-9]')      -- PCV: British Pension Civilian
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][M][S][0-9][0-9][0-9][0-9]')      -- PMS: British Merchant Seaman 1914
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[P][W][O][0-9][0-9][0-9][0-9]')      -- PWO: British War Office Pension
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[Q][0-9][0-
9][0-9][0-9][0-9][0-9]') -- Q  : Query
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[R][D][0-
9][0-9][0-9][0-9][0-9]')    -- RD : Southern Rhodesia 1914
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[R][D][X][0-9][0-9][0-9][0-9]')      -- RDX: Southern Rhodesia 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[S][A][0-
9][0-9][0-9][0-9][0-9]')    -- SA : South African Forces 1914
```

```
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[S][A][X][0-9][0-9][0-9][0-9]')      -- SAX: South African Forces 1939
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[S][L][0-
9][0-9][0-9][0-9][0-9]')    -- SL : Sierra Leone
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[S][U][D][0-9][0-9][0-9][0-9]')      -- SUD: Sudan
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE
('[T][Z][A][0-9][0-9][0-9][0-9]')      -- TZA: Tanganyika (Tanzania)
                AND SUBSTRING(LTRIM(@veteran_identification_number),2,7) NOT LIKE ('[Z][Z][0-
9][0-9][0-9][0-9][0-9]')    -- ZZ : Zanzibar
            )
            OR CHARINDEX(CHAR(32),(SUBSTRING(LTRIM(@veteran_identification_number),2,7))) > 0
            OR (
               LEN(RTRIM(LTRIM(@veteran_identification_number))) = 9
                  AND RIGHT(LTRIM(@veteran_identification_number),1) NOT LIKE '[A-Z]'
                  ))
         AND NULLIF(@veteran_identification_number,'') IS NOT NULL --Condition added as per
A.B. email - 28/07/2017
         AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
         AND REPLACE(@separation_date,'-','') >= '20170701'
      THEN 1
      ELSE 0
   END
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2295: [Funding Source] not (04) DOES NOT REQUIRE [Veteran Card Number] or [Veteran Card Type]

Pseudocode

```
IF
(
        [Veteran Card Number] (data item 69) is not blank
        OR
        (
                [Veteran Card Type] (data item 31) = G (Gold: DVA Health Card - For all
                conditions)
                OR
                [Veteran Card Type] (data item 31) = W (White: DVA Health Card - For specific
                conditions)
        )
)
AND
        [Funding Source] (data item 95) <> 04 (Veteran)
THEN
        ACCEPT submitted values
        PRINT error message 2295: [Funding Source] not (04) DOES NOT REQUIRE [Veteran Card
        Number] or [Veteran Card Type]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE      @IsInValid        SMALLINT    = 0 ;

    IF
    (
        (
            NULLIF(@veteran_identification_number, '') IS NOT NULL
            AND @veteran_identification_number <> '000000000'
        )
        OR
        (
            NULLIF(@veteran_card, '') IS NOT NULL
            --AND @veteran_card NOT IN ('N','X')
            AND @veteran_card NOT IN ('N') -- 01-Jul-2019: Removed 'X'
        )
    )
    AND
    (
        @funding_source NOT IN ('04') -- Note document says exclude 4, but code was there for
04.
                                      -- So if it has changed then we must be mapping
somewhere, so will go with 04.
    )
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Made inactive December 2021.

Result

None.

Action

None.

2296: [Funding Source] of (04) REQUIRES [Veteran Card Number] and [Veteran Card Type]

Pseudocode

```
IF
(
        [Veteran Card Number] (data item 69) is not blank
        OR
        (
                [Veteran Card Type] (data item 31) = G (Gold: DVA Health Card - For all
                conditions)
                OR
                [Veteran Card Type] (data item 31) = W (White: DVA Health Card - For specific
                conditions)
        )
)
AND
        [Funding Source] (data item 95) <> 04 (Veteran)
THEN
        ACCEPT submitted values
        PRINT error message 2295: [Funding Source] not (04) DOES NOT REQUIRE [Veteran Card
        Number] or [Veteran Card Type]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
USE [HealthValidator]
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

CREATE FUNCTION [dbo].[edit_2296]
(
      @veteran_card                   VARCHAR(1)
    , @veteran_identification_number  VARCHAR(9)
    , @funding_source                 VARCHAR(2)

) RETURNS SMALLINT
AS

BEGIN
    DECLARE      @IsInValid        SMALLINT    = 0 ;

    IF
    (
        @funding_source IN ('04') -- Note document says exclude 4, but code was there for 04.
                                  -- So if it has changed then we must be mapping somewhere,
so will go with 04.
    )
    AND
    (
        (
            NULLIF(@veteran_identification_number, '') IS NULL
            OR @veteran_identification_number = '000000000'
        )
        OR
        (
            NULLIF(@veteran_card, '') IS NULL
            --AND @veteran_card NOT IN ('N','X')
            OR @veteran_card IN ('N') -- 01-Jul-2019: Removed 'X'
        )
    )
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Created December 2021 to replace data quality check 2295

Result

None.

Action

None.

2300: [Hours In ICU] not (0-99999 hours)

Pseudocode

```
IF
	[Hours In ICU] (data item 40) < 0 or > 99999
THEN
	ACCEPT submitted record
	PRINT error message 2300: [Hours In ICU] not (0-99999 hours
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hours_in_Intensive_Care_Unit not between '00000' AND '99999' or
nullif(Hours_in_Intensive_Care_Unit,'') is null  or
charindex(' ',Hours_in_Intensive_Care_Unit,1) > 0 or
len(Hours_in_Intensive_Care_Unit) < 5
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

2301: [Episode Of Care] of (5, or 7) NOT COMPATIBLE WITH [Hours In ICU] not (0)

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) = 5 (Unqualified newborn)
        OR
        [Episode Of Care] (data item 51) = 7 (Hospital in the home / Rehab in the home)
        (Hospital at home / Rehab at home)
)
AND     [Hours In ICU] (data item 40) <> 0
THEN
        ACCEPT submitted values
        PRINT error message 2301: [Episode Of Care] of (5, or 7) NOT COMPATIBLE WITH [Hours In
        ICU] not (0)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
episode_of_care IN ('5','7') and
hours_in_intensive_care_unit <> 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2302: [Episode Of Care] of (5, or 7) NOT COMPATIBLE WITH [Hours On Mechanical Ventilation] not (0)

Pseudocode

```
IF
(
	[Episode Of Care] (data item 51) = 5 (Unqualified newborn)
	OR
	[Episode Of Care] (data item 51) = 7 (Hospital in the home / Rehab in the home)
)
AND
	[Hours On Mechanical Ventilation] (data item 41) <> 0
THEN
	ACCEPT submitted values
	PRINT error message 2302: [Episode Of Care] of (5, or 7) NOT COMPATIBLE WITH [Hours On
	Mechanical Ventilation] not (0)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@hours_on_mechanical_ventilation ---expect ####
select @ret = case when @episode_of_care in ('5','7') and
LEN(@hours_on_mechanical_ventilation)=4 and @hours_on_mechanical_ventilation<>'0000' then 1
else 0 end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2310: [Postcode] and [Statistical Local Area] combination not in system reference table

Pseudocode

```
IF
(
	[Postcode] (data item 6)
	&
	[Statistical Local Area] (data item 7)
) not in system reference table
THEN
	ACCEPT submitted values
	PRINT error message 2310: [Postcode] and [Statistical Local Area] combination not in
	system reference table
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
	DECLARE @IsInvalid SMALLINT = 0, @CheckSLA VARCHAR(4), @CheckPostcode VARCHAR(4);

	SET	@CheckSLA = LTRIM(RTRIM(@SLA))
	SET	@CheckPostcode = LTRIM(RTRIM(@POSTCODE))

	IF	ISNUMERIC(@CheckPostcode) = 1 AND
		ISNUMERIC(@CheckSLA) = 1 AND
		@CheckSLA NOT IN ('0999', '0000') AND
		(	NOT EXISTS		(	SELECT		TOP (1) 1
							FROM	HealthValidator.Codes.Location
							WHERE lc_SLA_Code = @CheckSLA
							AND		lc State Abbr = 'SA'
						) AND
			EXISTS			(	SELECT		TOP (1) 1
							FROM	HealthValidator.Codes.Location
							WHERE lc_Postcode = @CheckPostcode
							AND		lc_State_Abbr = 'SA'
						)
		) OR
		(	EXISTS			(	SELECT		TOP (1) 1
							FROM	HealthValidator.Codes.Location
							WHERE lc_SLA_Code = @CheckSLA
							AND		lc State Abbr = 'SA'
						)
			AND NOT EXISTS	(	SELECT		TOP (1) 1
							FROM	HealthValidator.Codes.Location
							WHERE lc_Postcode = @CheckPostcode
							AND		lc_State_Abbr = 'SA'
						)
		)
		BEGIN
			SET @IsInvalid = 1;
		END;

	RETURN @IsInvalid;
END;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2320: [Funding Source] of (06, 07, or 11) REQUIRES [Admission Election] of (1)

Pseudocode

```
IF
(
        [Funding Source] (data item 95) = 06 (Correctional)
        OR
        [Funding Source] (data item 95) = 07 (Overseas: RHCA)
        OR
        [Funding Source] (data item 95) = 11 (Medicare)
)
AND
        [Admission Election] (data item 19) <> 1 (Hospital insurance)
THEN
        ACCEPT submitted record
        PRINT error message 2320: [Funding Source] of (06, 07, or 11) REQUIRES [Admission
        Election] of (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret bit
---declare @s varchar(1000)
--set
@s=@date_transfer_to_discharge_lounge_original+'|'+@time_transfer_to_discharge_lounge_original
--exec xp_logevent 50001,@s ----expect date like ddmmyyyy and time like hhmm
if @Funding_Source in ('11','06','07') and @Admission_Election<>'1'
begin
 set @ret=1
end
else
begin
 set @ret=0
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2330: [Funding Source] of (09) REQUIRES [Hospital Insurance] of (1)

Pseudocode

```
IF
        [Funding Source] (data item 95) = 09 (Private health insurance)
AND
        [Hospital Insurance] (data item 17) <> 1 (Hospital insurance)
THEN
        ACCEPT submitted values
        PRINT error message 2330: [Funding Source] of (09) REQUIRES [Hospital Insurance] of
        (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Funding_source = '09' and
Insurance_Status <> '1'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2340: [Admission Type] of (1), and Length of stay of (> 35 days), and [Funding Source] not (01, 02, 03, 07, or 08) REQUIRES [Status Change Type] of (2, or 3)

Pseudocode

```
IF
        [Admission Type] (data item 20) = 1 (Hospital)
AND
        Length of Stay > 35 days
AND
(
        [Funding Source] (data item 95] <> 01 (Compensable: MVA)
        AND
        [Funding Source] (data item 95] <> 02 (compensable: WC)
        AND
        [Funding Source] (data item 95] <> 03 (Compensable: Other)
        AND
        [Funding Source] (data item 95] <> 07 (Overseas: RHCA)
        AND
        [Funding Source] (data item 95] <> 08 (Non-Medicare)
)
AND
(
        Every [Status Change Type] (data item 23, 26, or 29) <> 2 (Long stay: Acute)
        OR
        Every [Status Change Type] (data item 23, 26, or 29) <> 3 (Long stay: Non-acute care)
)
THEN
        ACCEPT submitted values
        PRINT error message 2340: [Admission Type] of (1), and Length of stay of (> 35 days),
        and [Funding Source] not (01, 02, 03, 07, or 08) REQUIRES [Status Change Type] of (2,
        or 3)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInValid  SMALLINT = 0 ;
   IF(
      @admission_Type                                    = '1'
      AND ISNUMERIC(LTRIM(RTRIM(@length_of_Stay_in_Days)))       = 1
      AND CAST(LTRIM(RTRIM(@length_of_Stay_in_Days)) AS INT)      > 35
      AND ISNULL(@status_change_1_admission_type, '')            NOT IN ('2', '3')
      AND ISNULL(@status_change_2_admission_type, '')            NOT IN ('2', '3')
      AND ISNULL(@status_change_3_admission_type, '')            NOT IN ('2', '3')
      AND LTRIM(RTRIM(@funding_Source))                      NOT IN ('01', '02', '03', '07',
'08')
   )
   BEGIN
      SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2341: [Episode Of Care] not (2, 3, 4, 8, 9, J, K, or L) NOT COMPATIBLE WITH [Admission Type] or [Status Change Type] of (3), or [Status Change Date 1], [Status Change Date 2], or [Status Change Date 3] < [Admission Date]

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) <> 2 (Maintenance care)
        AND
        [Episode Of Care] (data item 51) <> 3 (Palliative care)
        AND
        [Episode Of Care] (data item 51) <> 4 (Rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> 8 (Psychogeriatric care)
        AND
        [Episode Of Care] (data item 51) <> 9 (Geriatric evaluation and management)
        AND
        [Episode Of Care] (data item 51) <> J (Mental health: Acute)
        AND
        [Episode Of Care] (data item 51) <> K (Mental health: Rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> L (Mental health: Psychogeriatric care)
)
AND
(
        [Admission Type] (data item 20) = 3 (Long stay: Non-acute care)
        OR
        [Status Change Type] (data item 23, 26, 29) = 3 (Long stay: Non-acute care)
)
OR
        [Status Change Effective Date] (data item 24, 27, 30) <  [Admission Date] (data item
        21)
THEN
        ACCEPT submitted values
        PRINT error message 2341: [Episode Of Care] not (2, 3, 4, 8, 9, J, K, or L) NOT
        COMPATIBLE WITH [Admission Type] or [Status Change Type] of (3), or [Status Change
        Date 1], [Status Change Date 2], or [Status Change Date 3] < [Admission Date]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
   DECLARE   @NewStatChange1Date      VARCHAR(10)
         , @NewStatChange2Date      VARCHAR(10)
         , @NewStatChange3Date      VARCHAR(10)
         , @CNVAdm_Date            DATE
         , @StatusChange1Date_OK      INT
         , @StatusChange2Date_OK      INT
         , @StatusChange3Date_OK      INT
   SELECT @CNVAdm_Date = convert(DATE,@Admission_Date)
   SELECT @StatusChange1Date_OK =
DBO.ISDDMMYYYY(@status_change_1_date_effective_from_original,'00000000',0)
   SELECT @StatusChange2Date_OK =
DBO.ISDDMMYYYY(@status_change_2_date_effective_from_original,'00000000',0)
   SELECT @StatusChange3Date_OK =
DBO.ISDDMMYYYY(@status_change_3_date_effective_from_original,'00000000',0)
   IF @StatusChange1Date_OK = 1 AND @status_change_1_date_effective_from_original <>
'00000000'
      SELECT @NewStatChange1Date =
CONVERT(DATE,RIGHT(@status_change_1_date_effective_from_original,4) +
                          SUBSTRING(@status_change_1_date_effective_from_original,3,2) +
                          LEFT(@status_change_1_date_effective_from_original,2))
      ELSE
         IF ISDATE(@status_change_1_date_effective_from_original) = 0
            SET @NewStatChange1Date = '1901-01-01'
```

```
   IF @StatusChange2Date_OK = 1 AND @status_change_2_date_effective_from_original <>
'00000000'
      SELECT @NewStatChange2Date =
CONVERT(DATE,RIGHT(@status_change_2_date_effective_from_original,4) +
                           SUBSTRING(@status_change_2_date_effective_from_original,3,2) +
                           LEFT(@status_change_2_date_effective_from_original,2))
      ELSE
         IF ISDATE(@status_change_2_date_effective_from_original) = 0
               SET @NewStatChange2Date = '1901-01-01'
   IF @StatusChange3Date_OK = 1 AND @status_change_3_date_effective_from_original <>
'00000000'
      SELECT @NewStatChange3Date =
CONVERT(DATE,RIGHT(@status_change_3_date_effective_from_original,4) +
                           SUBSTRING(@status_change_3_date_effective_from_original,3,2) +
                           LEFT(@status_change_3_date_effective_from_original,2))
      ELSE
         IF ISDATE(@status_change_3_date_effective_from_original) = 0
            SET @NewStatChange3Date = '1901-01-01'
   IF
   (
   ISNULL(@episode_of_care, '') not in ('2','3','4','8','9','J','K','L')
   AND   (@admission_type = '3'
      AND ISNULL(@status_change_1_admission_type,'') in ('','0')
      AND ISNULL(@status_change_2_admission_type,'') in ('','0')
      AND ISNULL(@status_change_3_admission_type,'') in ('','0'))
   OR
   ISNULL(@episode_of_care, '') not in ('2','3','4','8','9','J','K','L')
       AND (ISNULL(@status_change_1_admission_type,'') = '3'
         AND ISNULL(@status_change_2_admission_type,'') in ('','0')
         AND ISNULL(@status_change_3_admission_type,'') in ('','0'))
   OR
   ISNULL(@episode of care, '') not in ('2','3','4','8','9','J','K','L')
      AND (ISNULL(@status_change_2_admission_type,'') = '3'
      AND ISNULL(@status_change_3_admission_type,'') in ('','0'))
   OR
   ISNULL(@episode_of_care, '') not in ('2','3','4','8','9','J','K','L')
      AND (ISNULL(@status_change_3_admission_type,'') = '3')
   OR (@NewStatChange1Date < @CNVAdm Date AND @NewStatChange1Date <> '1901-01-01')
   OR (@NewStatChange3Date < @NewStatChange2Date AND @NewStatChange3Date <> '1901-01-01')
   OR (@NewStatChange2Date < @NewStatChange1Date AND @NewStatChange2Date <> '1901-01-01')

   )
    BEGIN
        SET @IsInValid = 1 ;
    END
```

Issue

None.

Update data quality check

Deactivated 1 July 2023. Replaced with Warning data quality check 4992.

Result

None.

Action

None.

2342: [Episode Of Care] of (2, or J) NOT COMPATIBLE WITH [Admission Type] or [Status Change Type] of (2)

Pseudocode

```
IF
(
	[Episode Of Care] (data item 51) = 2 (Maintenance care)
	OR
	[Episode Of Care] (data item 51) = J (Mental health maintenance care)
)
AND
	(
		[Admission Type] (data item 20) = 2 (Long stay: Acute)
		OR
		[Status Change Type] (data item 23, 26, or 29) = 2 (Long stay: Acute)
	)
THEN
	ACCEPT submitted values
	PRINT error message 2342: [Episode Of Care] of (2, or J) NOT COMPATIBLE WITH
	[Admission Type] or [Status Change Type] of (2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    IF  (@episode_of_care = '2' OR @episode_of_care = 'J')
    AND ISNULL(@admission_type, '') NOT IN ('1', '3')
    AND ISNULL(@status_change_1_admission_type, '') NOT IN ('1', '3')
    AND ISNULL(@status_change_2_admission_type, '') NOT IN ('1', '3')
    AND ISNULL(@status_change_2_admission_type, '') NOT IN ('1', '3')
/*  AND ISNULL(@admission_type, '') NOT IN ('1', '2')
    AND ISNULL(@status_change_1_admission_type, '') NOT IN ('1', '2')
    AND ISNULL(@status_change_2_admission_type, '') NOT IN ('1', '2')
    AND ISNULL(@status_change_2_admission_type, '') NOT IN ('1', '2')*/
   --AND ISDATE(@separation_date) = 1
   --AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01'
   AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
   AND REPLACE(@separation_date,'-','') >= '20140701'
    BEGIN
        SET @IsInValid = 1 ;
    END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2500: [Principal Diagnosis] is INVALID, not a [Diagnosis] code

Pseudocode

```
IF
       [Principal Diagnosis] (data item 45) <> valid diagnosis code
THEN
       ACCEPT submitted values
       PRINT error message 2500: [Principal Diagnosis] is INVALID, not a [Diagnosis] code
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInValid  SMALLINT = 0 ;
   SELECT @IsInvalid = CASE
      -- July1'17 Implementation
      WHEN
          (
             SELECT COUNT(*)
                FROM HealthValidator.dbo.vw_Codes_ICD10AM
             WHERE icd_Type='D'
                AND icd_Code=LTRIM(RTRIM(@Principal_Diagnosis))
             ) = 0

         AND NULLIF(LTRIM(RTRIM(@principal_diagnosis)),'') IS NOT NULL
         AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
         --AND REPLACE(@separation_date,'-','') >= '20170101' -- Pre 2017 Version No Date
Check
         AND REPLACE(@separation_date,'-','') >= '20170701'
      THEN 1
      ELSE 0
   END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2500A: [Principal Diagnosis] is blank

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) <> valid diagnosis code
THEN
        ACCEPT submitted values
        PRINT error message 2500A: [Principal Diagnosis] is blank, or [Additional Diagnosis]
        is blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
   SELECT  @IsInValid = CASE
                    -- July1'17 Implementation
                    WHEN   (@principal_diagnosis IS NULL OR
                              LEN(RTRIM(@principal_diagnosis)) = 0)
                          AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1

                          --AND REPLACE(@separation_date,'-','') >= '20170101' -- UAT
                          AND REPLACE(@separation_date,'-','') >= '20170701' -- PROD Version
                    THEN 1
                    ELSE 0

                END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2510: [Hospital Number] of (< 4000), and [Principal Diagnosis] contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of (1) = Unacceptable Principal Diagnosis

Pseudocode

```
IF
        [Hospital Number] (data item 01) < 4000
AND
        [Principal Diagnosis] (data item 45) = ([Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] = 1)
THEN
        ACCEPT submitted values
        PRINT error message 2510: [Hospital Number] of (< 4000), and [Principal Diagnosis]
        contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of
        (1) = Unacceptable Principal Diagnosis
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0,
         @PdxResult VARCHAR (5) ;
   SELECT @PdxResult =   RTRIM(LTRIM(@principal_diagnosis))
                  FROM vw_Codes_ICD10AM
                  WHERE icd_type = 'D'
                     AND icd_unacceptable_pdx_flag = 'Y'
                     AND icd_code = @principal_diagnosis
    IF   (
         @PdxResult IS NOT NULL
         AND @hospital_code < 4000
         --AND ISDATE(@separation_date) = 1
         --AND CONVERT(DATE, @separation_date, 126) >= '2015-07-01'
         AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
         AND REPLACE(@separation_date,'-','') >= '20150701'
)
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2511: [Hospital Number] of (< 4000), and [Principal Diagnosis] or [Additional Diagnosis] contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of (2)

Pseudocode

```
IF
        [Hospital Number] (data item 01) < 4000
AND
        (
        [Principal Diagnosis] (data item 45) = ([Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] = (2)
        OR
        [Additional Diagnosis] (data item 46) = ([Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] = (2)
        )
THEN
        ACCEPT submitted values
        PRINT error message 2511: [Hospital Number] of (< 4000), and [Principal Diagnosis] or
        [Additional Diagnosis] contains [Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] of (2)
```

Status

Active.

Implementation

Implemented 1 July 2022.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2520: [Additional Diagnosis] is INVALID, not a [Diagnosis] code or not a [RUG-ADL] score

Pseudocode

```
IF
	[Additional Diagnosis] (data item 46_001-46_099) <> valid diagnosis code, [RUG-ADL],
	or is not blank
THEN
	ACCEPT submitted values
	PRINT error message 2520: [Additional Diagnosis] is INVALID, not a [Diagnosis] code or
	not a [RUG-ADL] score
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;

    WITH additional_diagnosisCTE AS
    (
        SELECT icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
    SELECT @IsInValid = CASE
                            WHEN EXISTS (
                                            SELECT TOP (1) 1
                                            FROM additional_diagnosisCTE ad
                                            WHERE ad.icd_code NOT IN (
                                                                        SELECT
icdRef.icd_code
                                                                        FROM
dbo.vw_Codes_ICD10AM icdRef
                                                                        WHERE icdRef.icd_type
= 'D'
                                                                    )
                                                AND ad.icd_code NOT IN (
                                                                          SELECT rugRef.[RUG-
ADL]
                                                                          FROM [ISAAC-
II_Transform].Ref.tbl_RUG_ADL rugRef
                                                                       )
                                        ) THEN 1
                            ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2530: [Procedure] is INVALID, not a [Procedure] code

Pseudocode

```
IF
	[Procedure] (data item 49_001-49_099) <> valid procedure code, or is blank
THEN
	ACCEPT submitted values
	PRINT error message 2530: [Procedure] is INVALID, not a [Procedure] code
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(Principal_Procedure not in vw_Codes_ICD10AM icd_Type 'P' icd_Code and
nullif(rtrim(Principal_Procedure),'') is  not null  ) or (
dbo.ValidateDelimitedField(additional_procedure,',',1,101) not in vw_Codes_ICD10AM icd_Type
'P' icd_Code and
nullif(rtrim(val),'') is  not null  ) or
(Principal_Procedure in vw_Codes_ICD10AM icd_subheading '@' icd_Code or
dbo.ValidateDelimitedField(additional_procedure,',',1,101) in vw_Codes_ICD10AM icd_subheading
'@' icd_Code )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2531: [Principal Diagnosis] or [Additional Diagnosis] of (O83, or O0841) NOT COMPATIBLE WITH [Procedure] from (9046800, 9046801, 9046802, 9046804, 9046806, 9046900, 9047002, 9047004, Block 1336, or Block 1340)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O83, or O8481
        AND
        [Procedure] (data item 49_001-49_099) =  9046800, 9046801, 9046802, 9046804, 9046806,
        9046900, 9047002, 9047004, Block 1336, or Block 1340
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O83, or O8481
        AND
        [Procedure] (data item 49_001-49_099) = 9046800, 9046801, 9046802, 9046804, 9046806,
        9046900, 9047002, 9047004, Block 1336, or Block 1340
)
THEN
        ACCEPT submitted values
        PRINT error message 2531: [Principal Diagnosis] or [Additional Diagnosis] of (O83, or
        O0841) NOT COMPATIBLE WITH [Procedure] from (9046800, 9046801, 9046802, 9046804,
        9046806, 9046900, 9047002, 9047004, Block 1336, or Block 1340)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;

    WITH valid_proceduresCTE AS
    (
        SELECT ProcedureCode = c.icd_code
        FROM [dbo].[vw_Codes_ICD10AM] c
        WHERE c.icd_proc_block IN (
                                      '1336'
                                    , '1340'
                                  )
        UNION
        SELECT ProcedureCode = c.ProcedureCode
        FROM (
                 VALUES   ('9046800')
                        , ('9046801')
                        , ('9046802')
                        , ('9046804')
                        , ('9046806')
                        , ('9046900')
                        , ('9047002')
                        , ('9047004')
             ) c (ProcedureCode)
    )
    , all_procedureCTE AS
    (
        SELECT p.ProcedureCode
        FROM (
                 VALUES (@principal_procedure)
             ) p (ProcedureCode)
        WHERE NULLIF(p.ProcedureCode, '') IS NOT NULL
        UNION
        SELECT ProcedureCode = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT icd_code = val
```

```
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT d.icd_code
        FROM (
                 VALUES (@principal_diagnosis)
             ) d (icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT @IsInValid = CASE
                            WHEN [dbo].[IsYYYYMMDD] (@separation_date, NULL, 0) = 1
                                AND CONVERT (DATE, @separation_date, 126) >= '2017-07-01'
                                AND EXISTS (
                                            -- Note this checks both principal and
additional diagnosis
                                            SELECT TOP (1) 1
                                            FROM all_diagnosisCTE d
                                            WHERE d.icd_code IN (
                                                                 'O83'
                                                               , 'O8481'
                                                                )
                                           )
                                AND EXISTS (
                                            SELECT TOP (1) 1
                                            FROM all_procedureCTE p
                                            WHERE p.ProcedureCode IN (
                                                                      SELECT
vp.ProcedureCode
                                                                      FROM
valid_proceduresCTE vp
                                                                     )
                                           ) THEN 1
                            ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2540: [External cause] not (V0000-Y919, Y95-Y98, or blank)

Pseudocode

```
IF
        [External Cause] (data item 47) <> V0000-Y919, Y95-Y98, or is not blank
THEN
        ACCEPT submitted values
        PRINT error message 2540: [External cause] not (V0000-Y919, Y95-Y98, or blank)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE    @IsInValid    SMALLINT = 0 ;

    IF    NULLIF(@external_cause, '') IS NOT NULL
        -- AND @external_cause NOT BETWEEN 'U900' AND 'Y919'
        AND @external_cause NOT BETWEEN 'V0000' AND 'Y919' -- 01-Jul-2019: Changed to 'V0000'
        AND @external_cause NOT BETWEEN 'Y95' AND 'Y98'
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END ;

'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2550: Principal [Procedure] code blank but Additional [Procedure] present

Pseudocode

```
IF
        Principal [Procedure] (data item 49_001) is blank
AND
        Additional [Procedure] (data item 49_002-49_099) = valid procedure code
THEN
        ACCEPT submitted values
        PRINT error message 2550: Principal [Procedure] code blank but Additional [Procedure]
        present
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
nullif(Principal_procedure,'') is null  and
dbo.ValidateDelimitedField(additional_procedure,',',1,101) in vw_Codes_ICD10AM icd_type 'P'
icd_code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2580: [Episode Of Care] not (1, 2, 3, 4, 5, 6, 7, 8, 9, I, J, K, L, or P) NOT COMPATIBLE WITH Age at admission of (> 9 days)

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) <> 1 (Acute)
        AND
        [Episode Of Care] (data item 51) <> 2 (Maintenance care)
        AND
        [Episode Of Care] (data item 51) <> 3 (Palliative care)
        AND
        [Episode Of Care] (data item 51) <> 4 (Rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> 5 (Unqualified newborn)
        AND
        [Episode Of Care] (data item 51) <> 6 (Qualified newborn)
        AND
        [Episode Of Care] (data item 51) <> 7 (Hospital at home / Rehab at home)
        AND
        [Episode Of Care] (data item 51) <> 8 (Psychogeriatric care)
        AND
        [Episode Of Care] (data item 51) <> 9 (Geriatric evaluation and management)
        AND
        [Episode Of Care] (data item 51) <> I (Mental health acute)
        AND
        [Episode Of Care] (data item 51) <> J (Mental health maintenance care)
        AND
        [Episode Of Care] (data item 51) <> K (Mental health rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> L (Mental health psychogeriatric care)
        AND
        [Episode Of Care] (data item 51) <> P (Posthumous organ procurement)
)
AND
        Age at admission > 9 days
THEN
        ACCEPT submitted values
        PRINT error message 2580: [Episode Of Care] not (1, 2, 3, 4, 5, 6, 7, 8, 9, I, J, K,
        L, or P) NOT COMPATIBLE WITH Age at admission of (> 9 days)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
   --DECLARE @S   VARCHAR(1000) = 'EDIT-2580: @episode_of_care=' + @episode_of_care + '|' +
'@date_of_birth=' + @date_of_birth + '|' + '@admission_date=' + @admission_date ;
   --EXEC XP_LOGEVENT 50001, @S ;
    IF  ISNULL(@episode_of_care, '') NOT BETWEEN '1' AND '9'
         --AND ISNULL(@episode_of_care, '') NOT IN ('I', 'J', 'K', 'L') --  ORIG
        AND ISNULL(@episode_of_care, '') NOT IN ('I', 'J', 'K', 'L', 'P')
      -- 'P' Posthumous Organ procedure added as per request by Nina Nyback 05.07.16
      AND ISNUMERIC(@age_in_days_at_admission) = 1
      AND @age_in_days_at_admission > 9
    BEGIN
        SET @IsInValid = 1 ;
    END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2580A: [Episode Of Care] not (5, or 6) NOT COMPATIBLE WITH Age at admission of (<= 9 days)

Pseudocode

```
IF
(
	[Episode Of Care] (data item 51) <> 5 (Unqualified newborn)
	AND
	[Episode Of Care] (data item 51) <> 6 (Qualified newborn)
)
AND
	Age at admission <= 9 days
THEN
	ACCEPT submitted values
	PRINT error message 2580A: [Episode Of Care] not (5, or 6) NOT COMPATIBLE WITH Age at
	admission of (<= 9 days)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
   --DECLARE @S   VARCHAR(1000) = 'EDIT-2580a: @episode_of_care=' + @episode_of_care + '|' +
'@date_of_birth=' + @date_of_birth + '|' + '@admission_date=' + @admission_date ;
   --EXEC XP_LOGEVENT 50001, @S ;
    IF  ISNULL(@episode_of_care, '') NOT IN ('5', '6')
      AND ISNUMERIC(@age_in_days_at_admission) = 1
      AND @age_in_days_at_admission <= 9
    BEGIN
        SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2581: [Episode Of Care] of (2) REQUIRES [Principal Diagnosis] of (Z750-Z759)

Pseudocode

```
IF
       [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
       [Principal Diagnosis] (data item 45) <> Z750-Z759
AND
THEN
       ACCEPT submitted record
       PRINT error message 2581: [Episode Of Care] of (2) REQUIRES [Principal Diagnosis] of
       (Z750-Z759)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInValid  SMALLINT = 0 ;
   SELECT  @IsInValid = CASE
   WHEN    @episode_of_care = '2'
     AND ISNULL(@principal_diagnosis, '') NOT LIKE 'Z75%' -- (Z750-Z759)
     AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
     AND REPLACE(@separation_date,'-','') >= '20170701'
   THEN 1
   ELSE 0
   END ;
   RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2582: [Episode Of Care] not (1, 5, or 6) NOT COMPATIBLE WITH [Hospital Number] in system reference table with [Hospital Role] of (6)

Pseudocode

```
IF
	[Hospital Role] in system reference table for [Hospital Number] = 6 (Day surgery)
AND
(
	[Episode Of Care] (data item 51) <> 1 (Acute)
	AND
	[Episode Of Care] (data item 51) <> 5 (Unqualified newborn)
	AND
	[Episode Of Care] (data item 51) <> 6 (Qualified newborn)
)
THEN
	ACCEPT submitted record
	PRINT error message 2582: [Episode Of Care] not (1, 5, or 6) NOT COMPATIBLE WITH
	[Hospital Number] in system reference table with [Hospital Role] of (6)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid INT = 0 ;
    SELECT @IsInValid = CASE
                            WHEN

                            ISNULL(@episode_of_care,'') not in ('1','5','6')
                            AND EXISTS (select TOP 1 * from HealthValidator.Codes.Hospitals
                              WHERE hc_code = @hospital_code
                              AND hc_role = '6')
                            THEN 1
                            ELSE 0
                        END
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2583: Age at admission of (> 28 days) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (Z380-Z388)

Pseudocode

```
IF
	Age at admission > 28 days
AND
(
	[Principal Diagnosis] (data item 45) = Z380-Z388
	OR
	[Additional Diagnosis] (data item 46_001-46_099) = Z380-Z388
)
THEN
	ACCEPT submitted record
	PRINT error message 2583: Age at admission of (> 28 days) NOT COMPATIBLE WITH
	[Principal Diagnosis] or [Additional Diagnosis] of (Z380-Z388)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Age_in_Days_at_Admission > 28 and (
Principal_Diagnosis IN ('Z380','Z381','Z382','Z383','Z384','Z385','Z386','Z387','Z388') or
dbo.ContainsStrings ('|Z380|Z381|Z382|Z383|Z384|Z385|Z386|Z387|Z388|',Additional_Diagnosis)>0)
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2585: [Admission Election] or [Status Change Election] not (2) NOT COMPATIBLE WITH [Funding Source] of (04, 05, 09, or 10) for [Hospital Number] of (>= 0049 and <= 0250)

Pseudocode

```
IF
(
	[Hospital Number] (data item 01) >= 0049
	AND
	[Hospital Number] (data item 01) <= 0250
)
AND
	(
		[Funding Source] (data item 95) = 04 (Veteran)
		OR
		[Funding Source] (data item 95) = 05 (Defence)
		OR
		[Funding Source] (data item 95) = 09 (Private health insurance)
		OR
		[Funding Source] (data item 95) = 10 (Self-Funded)
	)
AND
(
	[Admission Election] (data item 19) <> 2 (Private)
	OR
	(
		First [Status Change Election] (data item 22) is not blank
		AND
		First [Status Change Election] (data item 22) <> 2 (Private)
	)
	OR
	(
		Second [Status Change Election] (data item 25) is not blank
		AND
		Second [Status Change Election] (data item 25) <> 2 (Private)
	)
	OR
	(
		Third [Status Change Election] (data item 28) is not blank
		AND
		Third [Status Change Election] (data item 28) <> 2 (Private)
	)
)
THEN
	ACCEPT submitted values
	PRINT error message 2585: [Admission Election] or [Status Change Election] not (2) NOT
	COMPATIBLE WITH [Funding Source] of (04, 05, 09, or 10) for [Hospital Number] of (>=
	0049 and <= 0250)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret bit, @s varchar(1000)
--set
@s=@leave_from_date_time_1+'|'+@leave_from_date_time_2+'|'+@leave_from_date_time_3+'|'+@leave_
from_date_time_4+'|'+@admission_date_time
--exec xp_logevent 50001,@s expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM

if (@hospital_code between '0049' and '0250' ) and @Funding_Source in ('04','05', '09','10')
and @admission_election <>'2'
begin
set @s='|'+isnull(@status_change_1_admission_election,'0')
+'|'+isnull(@status_change_2_admission_election,'0')
+'|'+isnull(@status_change_3_admission_election,'0') +'|'
select @ret= case when PATINDEX('%|2|%',@s)>0 then 0 else 1 end
end
else
begin
```

```
   set @ret =0
end

return @ret
end
```

Issue

None.

Update data quality check

Updated December 2022 to remove [Funding Source] code 08 - Non-Medicare.

Result

None.

Action

None.

2610: [Funding Source] not (01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 or 14)

Pseudocode

```
IF
(
        [Funding Source] (data item 95) <> 01 (Compensable: MVA)
        AND
        [Funding Source] (data item 95) <> 02 (Compensable: WC)
        AND
        [Funding Source] (data item 95) <> 03 (Compensable: Other)
        AND
        [Funding Source] (data item 95) <> 04 (Veteran)
        AND
        [Funding Source] (data item 95) <> 05 (Defence)
        AND
        [Funding Source] (data item 95) <> 06 (Correctional)
        AND
        [Funding Source] (data item 95) <> 07 (Overseas: RHCA)
        AND
        [Funding Source] (data item 95) <> 08 (Non-Medicare)
        AND
        [Funding Source] (data item 95) <> 09 (Private health insurance)
        AND
        [Funding Source] (data item 95) <> 10 (Self-funded)
        AND
        [Funding Source] (data item 95) <> 11 (Medicare)
        AND
        [Funding Source] (data item 95) <> 12 (Other hospital or Public authority)
        AND
        [Funding Source] (data item 95) <> 13 (No charge raised)
        AND
        [Funding Source] (data item 95) <> 14 (Private Hospital Funding Agreement)
THEN
        ACCEPT submitted values
        PRINT error message 2610: [Funding Source] not (01, 02, 03, 04, 05, 06, 07, 08, 09,
        10, 11, 12, 13 or 14)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Funding_Source NOT IN
('01','02','03','04','05','06','07','08','09','10','11','12','13','14','1','2','3','4','5','6'
,'7','8','9')
```

Issue

None.

Update data quality check

Updated March 2022 to include Funding Source 14, backdated to 1 January 2022.

Result

None.

Action

None.

2611: [Source of Referral] of (7) REQUIRES [Funding Source] of (12) or (14)

Pseudocode

```
IF
	[Source Of Referral] (data item 16) = 7 (Contracted service)
AND
	[Funding Source] (data item 20) <> 12, or 14
THEN
	ACCEPT submitted values
	PRINT error message 2611: [Source of Referral] of (7) REQUIRES [Funding Source] of
	(12) or (14)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Funding_Source = '12' or '14'
Source_of_Referral <> '7'
```

Issue

None.

Update data quality check

Updated March 2022 to include Funding Source 14, backdated to 1 January 2022.

Result

None.

Action

None.

2612: [Funding Source] (04) REQUIRES Statistical Area Level 2 not BLANK; check [Suburb / Locality] and/or [Postcode]

Pseudocode

```
IF
        [Funding Source] (data item 95) = 04
        AND
        (
        Statistical Local Area is BLANK
        )
        THEN
        ACCEPT submitted record
        PRINT error message 2612: [Funding Source] (04) REQUIRES Statistical Area Level 2 not
        BLANK; check [Suburb / Locality] and/or [Postcode]
```

Status

Active.

Implementation

None.

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

2680: [Place Of Occurrence] is not blank, or not (Y9200-Y929)

Pseudocode

```
IF
(
        [Place Of Occurrence] (data item 94) is not blank
        AND
        [Place Of Occurrence] (data item 94) <> Y9200-Y929
)
OR
        [Place Of Occurrence] (data item 94) = ([Place Of Occurrence] in system reference
        table with [icd_subheading] = "@")
THEN
        ACCEPT submitted values
        PRINT error message 2680: [Place Of Occurrence] is not blank, or not (Y9200-Y929)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(place_of_occurrence not between 'Y9200'  and  'Y929' and
nullif(place_of_occurrence,'') is not null ) or
place_of_occurrence in vw_Codes_ICD10AM icd_subheading '@' icd_Code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2690: [Activity When Injured] not (U5000-U739, or blank)

Pseudocode

```
IF
(
        [Activity When Injured] (data item 93) is not blank
        AND
        [Activity When Injured] (data item 93) <> U5000-U739
)
OR
        [Activity When Injured] (data item 93) = ([Activity When Injured] in system reference
        table with [icd_subheading] = "@")
THEN
        ACCEPT submitted values
        PRINT error message 2690: [Activity When Injured] not (U5000-U739, or blank)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
nullif(rtrim(activity_when_injured),'') not between 'U5000' and 'U739' and
nullif(rtrim(activity_when_injured),'') is not null ) or
nullif(rtrim(activity_when_injured),'') in vw_Codes_ICD10AM icd_subheading '@' icd_Code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2695: [Episode Of Care] of (2), [Separation Date] (YYYY0331, YYYY0630, YYYY0930, or YYYY1231), and [Separation Time] of (2358) REQUIRES [Nature Of Separation] of (E)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Separation Date] (data item 43) = YYYY0331, YYYY0630, YYYY0930, or YYYY1231
AND
        [Separation Time] (data item 70) = 2358
AND
        [Nature Of Separation] (data item 42) <> E (End of quarter reporting)
THEN
        ACCEPT submitted values
        PRINT error message 2695: [Episode Of Care] of (2), [Separation Date] (YYYY0331,
        YYYY0630, YYYY0930, or YYYY1231), and [Separation Time] of (2358) REQUIRES [Nature Of
        Separation] of (E)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @InValid   SMALLINT = 0 ;
--declare @s varchar(1000)
--set @s=@nature_of_separation+'|'+@episode_of_care+'|'+@separation_date+'|'+@separation_time
--exec xp_logevent 50001,@s
   IF  @episode_of_care = '2'
       AND ISNULL(@nature_of_separation, '') <> 'E'
      AND [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
      AND [dbo].[IsEndOfQuarter](CONVERT(DATETIME, @separation_date, 121)) = 1
      AND @separation_time = '23:58:00'
      ----AND ISDATE(@separation_date) = 1 CR2015-0033 isdade is not deterministic witout a
convert
      AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01' -- Additional condition so that
only newer records are flagged.
   BEGIN
      SET   @InValid = 1
   END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2696: [Episode Of Care] of (2), [Admission Date] (YYYY0331, YYYY0630, YYYY0930, or YYYY1231), and [Admission Time] of (2359) REQUIRES [Nature Of Separation] of (E)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Admission Date] (data item 21) = YYYY0331, YYYY0630, YYYY0930, or YYYY1231
AND
        [Admission Time] (data item 67) = 2359
AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
THEN
        ACCEPT submitted values
        PRINT error message 2696: [Episode Of Care] of (2), [Admission Date] (YYYY0331,
        YYYY0630, YYYY0930, or YYYY1231), and [Admission Time] of (2359) REQUIRES [Nature Of
        Separation] of (E)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE   @InValid   SMALLINT = 0 ;
   IF  ISNULL(@source_of_referral, '') <> 'E'
       AND @episode_of_care = '2'
       AND [dbo].[IsYYYYMMDD](@admission_date, NULL, 0) = 1
       AND [dbo].[IsEndOfQuarter](CONVERT(DATETIME, @admission_date, 121)) = 1
       AND @admission_time = '23:59:00'
      ---AND ISDATE(@separation_date) = 1 CR2015-0033 isdade is not deterministic witout a
convert
      AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01' -- Additional condition so that
only newer records are flagged.
   BEGIN
      SET   @InValid = 1 ;
   END ;

   RETURN @InValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2700: [Episode Of Care] of (2), [Separation Date] (YYYY0331, YYYY0630, YYYY0930, or YYYY1231), and [Nature Of Separation] of (E) REQUIRES [Separation Time] of (2358)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Separation Date] (data item 43) = YYYY0331, YYYY0630, YYYY0930, or YYYY1231
AND
        [Nature Of Separation] (data item 42) = E (End of quarter reporting)
AND
        [Separation Time] (data item 70) <> 2358
THEN
        ACCEPT submitted values
        PRINT error message 2700: [Episode Of Care] of (2), [Separation Date] (YYYY0331,
        YYYY0630, YYYY0930, or YYYY1231), and [Nature Of Separation] of (E) REQUIRES
        [Separation Time] of (2358)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @InValid   SMALLINT = 0 ;
   IF (
      @nature_of_separation = 'E'
      AND
      @episode_of_care = '2'
      AND
      [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
      AND
      [dbo].[IsEndOfQuarter](CONVERT(DATETIME, @separation_date, 121)) = 1
      AND
      ISNULL(@separation_time, '') <> '23:58:00')
   BEGIN
      SET   @InValid = 1
   END ;
   RETURN @InValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2705: [Episode Of Care] of (2), and [Nature Of Separation] of (E) REQUIRES [Separation Date] of (YYYY0331, YYYY0630, YYYY0930, or YYYY1231)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Nature Of Separation] (data item 42) = E (End of quarter reporting)
AND
        [Separation Date] (data item 43) <> YYYY0331, YYYY0630, YYYY0930, or YYYY1231)
THEN
        ACCEPT submitted values
        PRINT error message 2705: [Episode Of Care] of (2), and [Nature Of Separation] of (E)
        REQUIRES [Separation Date] of (YYYY0331, YYYY0630, YYYY0930, or YYYY1231)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @InValid   SMALLINT = 0 ;
   IF (
      @nature_of_separation = 'E'
      AND
      @episode_of_care = '2'
      AND
      [dbo].[IsYYYYMMDD](@separation_date, NULL, 0) = 1
      AND
      [dbo].[IsEndOfQuarter](CONVERT(DATETIME, @separation_date, 121)) = 0)
   BEGIN
      SET   @InValid = 1
   END ;
   RETURN @InValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2710: [Episode Of Care] of (2), [Source Of Referral] of (E), and [Admission Date] of (YYYY0331, YYYY0630, YYYY0930, or YYYY1231) REQUIRES [Admission Time] of (2359)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Source Of Referral] (data item 16) = E (End of quarter reporting)
AND
        [Admission Date] (data item 21) = YYYY0331, YYYY0630, YYYY0930, or YYYY1231
AND
        [Admission Time] (data item 67) <> 2359
THEN
        ACCEPT submitted values
        PRINT error message 2710: [Episode Of Care] of (2), [Source Of Referral] of (E), and
        [Admission Date] of (YYYY0331, YYYY0630, YYYY0930, or YYYY1231) REQUIRES [Admission
        Time] of (2359)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE   @InValid   SMALLINT = 0 ;
   IF (
      @source_of_referral = 'E'
      AND @episode_of_care = '2'
      AND [dbo].[IsYYYYMMDD](@admission_date, NULL, 0) = 1
      AND [dbo].[IsEndOfQuarter](CONVERT(DATETIME, @admission_date, 121)) = 1
      AND ISNULL(@admission_time, '') <> '23:59:00'
   )
   BEGIN
      SET   @InValid = 1 ;
   END ;
   RETURN @InValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2715: [Episode Of Care] of (2), and [Source Of Referral] of (E) REQUIRES [Admission Date] of (YYYY0331, YYYY0630, YYYY0930, or YYYY1231)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Source Of Referral] (data item 16) = E (End of quarter reporting)
AND
        [Admission Date] (data item 21) <> YYYY0331, YYYY0630, YYYY0930, or YYYY1231
THEN
        ACCEPT submitted values
        PRINT error message 2715: [Episode Of Care] of (2), and [Source Of Referral] of (E)
        REQUIRES [Admission Date] of (YYYY0331, YYYY0630, YYYY0930, or YYYY1231)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @InValid   SMALLINT = 0 ;
   IF (
      @source_of_referral = 'E'
      AND
      @episode_of_care = '2'
      AND
      [dbo].[IsYYYYMMDD](@admission_date, NULL, 0) = 1
      AND
      [dbo].[IsEndOfQuarter](CONVERT(DATETIME, @admission_date, 121)) = 0
   )
   BEGIN
      SET   @InValid = 1
   END ;
   RETURN @InValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2720: [Referral For Further Health Care] of (07) REQUIRES [Nature of Separation] of (A)

Pseudocode

```
IF
        [Referral For Further Health Care] (data item 72) = 07 (Hospital at home / Rehab at
        home)
AND
        [Nature Of Separation] data item (42) <> A (Administrative discharge)
THEN
        ACCEPT submitted values
        PRINT error message 2720: [Referral For Further Health Care] of (07) REQUIRES [Nature
        of Separation] of (A)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (@referral_for_further_care = '07' AND ISNULL(@nature_of_separation, '') <> 'A')
    BEGIN
        SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2730: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Referral For Further Health Care] of (07)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 7 (Hospital in the home / Rehab in the home)
AND
        [Referral For Further Health Care] (data item 72) = 07 (Hospital at home / Rehab at
        home)
THEN
        ACCEPT submitted values
        PRINT error message 2730: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Referral For
        Further Health Care] of (07)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (@referral_for_further_care = '07' AND @episode_of_care = '7')
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2740: [Episode Of Care] of (7) NOT CONSISTENT WITH [Additional Diagnosis] of (Z509) and [Source Of Referral] not (4, or A), or [Additional Diagnosis] not (Z509) and [Source Of Referral] not (1, 3, 5, 6, P, or R)

Pseudocode

```
IF
(
	[Episode Of Care] (data item 51) = 7 (Hospital at home / Rehab at home)
	AND
	(
		[Additional Diagnosis] (data item 46_001-46_099) = Z509
		AND
		(
			[Source Of Referral] (data item 16) <> 4 (Inter-Hospital transfer)
			AND
			[Source Of Referral] (data item 16) <> A (Administrative admission)
		)
	OR
	(
		[Additional Diagnosis] (data item 46_001-46_099) <> Z509
		AND
		(
			[Source Of Referral] (data item 16) <> 1 (Other private medical
			practice (excluding psychiatrist))
			AND
			[Source Of Referral] (data item 16) <> 3 (Community health service)
			AND
			[Source Of Referral] (data item 16) <> 5 (Outpatient department)
			AND
			[Source Of Referral] (data item 16) <> 6 (Causality / Emergency)
			AND
			[Source Of Referral] (data item 16) <> P (Private psychiatric practice)
			AND
			[Source Of Referral] (data item 16) <> R (Residential mental health
			service)
		)
)
THEN
	ACCEPT submitted values
	PRINT error message 2740: [Episode Of Care] of (7) NOT CONSISTENT WITH [Additional
	Diagnosis] of (Z509) and [Source Of Referral] not (4, or A), or [Additional Diagnosis]
	not (Z509) and [Source Of Referral] not (1, 3, 5, 6, P, or R)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

   SELECT  @IsInValid = CASE
                    -- July1'17 Implementation
                    WHEN @episode_of_care = '7'
                        AND (
                             (
                                (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'Z509') IS NOT NULL
                                AND   ISNULL(@source_of_referral, '') NOT IN ('A', '4')
                             )
                             OR
                             (
                                (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'Z509') IS NULL
                                AND   ISNULL(@source_of_referral, '') NOT IN ('A', '1', '3',
'5', '6', 'P', 'R')
                             )
```

```
                            )
                           AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                           -- AND REPLACE(@separation_date,'-','') >= '20170101' -- Pre 2017
Version No Date Check (UAT)
                           AND REPLACE(@separation_date,'-','') >= '20170701' -- PROD Version
                      THEN 1
                      ELSE 0
                    END;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2742: [Additional Diagnosis] of (Z509) NOT CONSISTENT WITH [Hospital Number] not (0300, or 0306), [Episode Of Care] of (7), and [Source Of Referral] of (A)

Pseudocode

```
IF
(
	[Additional Diagnosis] (data item 46_001-46_099) = Z509
	AND
	[Hospital Number] (data item 1) <> 0300, or 0306
	AND
	[Episode Of Care] (data item 51) = 7 (Hospital at home / Rehab at home)
	AND
	[Source Of Referral] (data item 16) = A (Administrative admission)
)
THEN
	ACCEPT submitted values
	PRINT error message 2740: [Additional Diagnosis] of (Z509) NOT CONSISTENT WITH
	[Hospital Number] not (0300, or 0306), [Episode Of Care] of (7), and [Source Of
	Referral] of (A)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

   SELECT  @IsInValid = CASE

                     -- July1'17 Implementation
                     WHEN (
                           (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'Z509') IS NULL
                             AND @principal_diagnosis <> 'Z519'
                         )
                        AND @hosp_code NOT IN ('0300','0306')
                        --AND @hosp_code <> '0300'
                        AND @episode_of_care = '7'
                        AND @source_of_referral = 'A'

                        AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                        AND REPLACE(@separation_date,'-','') >= '20170701'

                     THEN 1

                        ELSE 0

                  END;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2745: [Episode Of Care] of (P) REQUIRES [Nature of Separation] of (5, or 6)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = P (Posthumous organ procurement)
AND
(
        [Nature Of Separation] (data item 42) <> 5 (Died - not autopsy)
        AND
        [Nature Of Separation] (data item 42) <> 6 (Died - autopsy)
)
THEN
        ACCEPT submitted values
        PRINT error message 2745: [Episode Of Care] of (P) REQUIRES [Nature of Separation] of
        (5, or 6)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid            SMALLINT = 0
    IF ( @episode_of_care = 'P'
      AND
      (@nature_of_separation != '5'
         AND @nature_of_separation != '6')
      AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
      AND REPLACE(@separation_date,'-','') >= '20160701')
   BEGIN
      SET @IsInValid = 1 ;
   END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2747: [Principal Diagnosis] or [Additional Diagnosis] of (Z525 or Z527) REQUIRES [Episode Of Care] of (P)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z5252 or Z527
        AND
        [Episode Of Care] (data item 51) <> P (Posthumous organ procurement)
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z525 2or Z527
        AND
        [Episode Of Care] (data item 51) <> P (Posthumous organ procurement)
)
THEN
        ACCEPT submitted record
        PRINT error message 2747: [Principal Diagnosis] or [Additional Diagnosis] of (Z525 or
        Z527) REQUIRES [Episode Of Care] of (P)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Removing Z526.

Update data quality check

Updated to exclude Z526 [Principal Diagnosis] and Z526 [Additional Diagnosis].

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2750: [Episode Of Care] of (5, 6, 7, 8, or L) NOT COMPATIBLE WITH [Referral For Further Health Care] of (07) and [Nature Of Separation] of (A)

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) = 5 (Unqualified newborn)
        OR
        [Episode Of Care] (data item 51) = 6 (Qualified newborn)
        OR
        [Episode Of Care] (data item 51) = 7 (Hospital in the home / Rehab in the home)
        OR
        [Episode Of Care] (data item 51) = 8 (Psychogeriatric care)
        OR
        [Episode Of Care] (data item 51) = L (Mental health psychogeriatric care)
)
AND
        [Referral For Further Health Care] (data item 72) = 07 (Hospital at home / Rehab at
        home)
AND
        [Nature of Separation] (data item 42) = A (Administrative discharge)
THEN
        ACCEPT submitted values
        PRINT error message 2750: [Episode Of Care] of (5, 6, 7, 8, or L) NOT COMPATIBLE WITH
        [Referral For Further Health Care] of (07) and [Nature Of Separation] of (A)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (@episode_of_care IN ('5', '6', '7', '8', 'L')
         AND
         @referral_for_further_care = '07'
         AND
         @nature_of_separation = 'A'
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2751: [Episode Of Care] of (2), and [Source Of Referral] not (E) REQUIRES [RUG-ADL]

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
AND
        [RUG-ADL] (data item 104) is blank
THEN
        ACCEPT submitted values
        PRINT error message: 2751: [Episode Of Care] of (2), and [Source Of Referral] not (E)
        REQUIRES [RUG-ADL]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
---declare @s varchar(1000)
---convert NULLs so we can display to log if we feel like
---set
@s=ISNULL(@episode_of_care,'NULL')+'|'+ISNULL(@source_of_referral,'NULL')+'|'+ISNULL(@RUG_ADL,
'NULL')+'|'+ISNULL(@separation_date,'NULL')
---exec xp_logevent 50001,@s
    IF  (@episode_of_care = '2'
      AND ISNULL(@source_of_referral, '') NOT IN ('E')
      AND NULLIF(@RUG_ADL,'') IS NULL)
      AND @hospital_code NOT LIKE ('[4][0-9][0-9][0-9]')
      AND LEN(@hospital_code) = 4
      AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
      AND REPLACE(@separation_date,'-','') >= '20150701'
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END
```

Status

Inactive 30 September 2024.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2753: Non-emergency selected same day scope procedures where no general anaesthetic is administered are INVALID inpatient admissions; REPLACE inpatient admission with an outpatient occasion of service

Pseudocode

```
IF
(
(
(
[Hospital Number] (data item 01) >= 0049 and <= 0249
OR
[Hospital Number] (data item 01) = 0020
)
AND
[Admission Election] (data item 19) <> 2 (Private)
)
OR
[Hospital Number] (data item 01) = 0003, 0005,0008, 0014, 0015, 0018, 0019, 0027, 0028, 0030,
0033, 0035, 0036, 0042, 0296, 0300, 0306 or 0601
AND
[Funding Source] (data item 95) <> 9 OR 12
)
AND
[Admission Category] (data item 15) <> 2 (Emergency)
AND
[Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
Principal [Procedure] (data item 49_001) = ([Procedure] in system reference table with [Select
Same Day Scope Procedure Flag] = Y)
AND
Additional [Procedure] (data item 49_002-49_099) <> ([Procedure] in system reference table
with [General Anaesthesia Procedure Flag] = Y)
AND
Principal [Procedure Location Indicator] for Principal [Procedure] performed at originating
hospital = 1
AND
Additional [Procedure Location Indicator] for Additional [Procedure] performed at originating
hospital = 1
AND
Principal [Procedure Location Indicator] for Principal [Procedure] performed at contracting
hospital <> 2 not contracted
AND
Additional [Procedure Location Indicator] for Additional [Procedure] performed at contracting
hospital <> 2 not contracted
THEN
ACCEPT submitted values
PRINT error message 2753: Non-emergency selected same day scope procedures where no general
anaesthetic is administered are INVALID inpatient admissions; REPLACE inpatient admission with
an outpatient occasion of service
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_proceduresCTE AS
    (
        SELECT  ProcedureCode    = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @hospital_code BETWEEN '0049' AND '0249'
                                   AND @admission_election <> '2'
```

```
                        )
                        OR
                        (
                            @hospital_code    IN (
                                                  '0003'
                                                , '0005'
                                                , '0008'
                                                , '0014'
                                                , '0015'
                                                , '0018'
                                                , '0019'
                                                , '0027'
                                                , '0028'
                                                , '0030'
                                                , '0033'
                                                , '0035'
                                                , '0036'
                                                , '0042'
                                                , '0296'
                                                , '0300'
                                                , '0306'
                                              )
                            )
                        )
                        AND @admission_category <> '2'
                        AND @admission_date = @separation_date
                        AND @principal_procedure    IN ('1182000'
                                                , '3037522'
                                                , '3045102'
                                                , '3045103'
                                                --, '3047300' --ICD 10 to 11: Map 3047300 to
3068000; Remove 3047300
                                                , '3047301'
                                                , '3047302'
                                                , '3047303'
                                                , '3047304'
                                                , '3047305'
                                                , '3047306'
                                                , '3047307'
                                                , '3047308'
                                                , '3047500'
                                                , '3047501'
                                                --, '3047600' --(Block 851) ICD 8 to 9: Map
3047600 to 3047604; Remove 3047600
                                                --, '3047601' --(Block 851) ICD 8 to 9: Map
3047601 to 3047604; Remove 3047601
                                                , '3047602'
                                                , '3047603'
                                                , '3047604'   --(Block 851) ICD 8 to 9: Map from
3047600, 3047601, 3047806, 3047809 to 3047604; Add 3047604
                                                , '3047800'
                                                , '3047801'
                                                , '3047802'
                                                , '3047803'
                                                , '3047804'
                                                , '3047805'
                                                --, '3047806' --(Block 851) ICD 8 to 9: Map
3047806 to 3047604; Remove 3047806
                                                , '3047807'
                                                --, '3047809' --(Block 851) ICD 8 to 9: Map
3047809 to 3047604; Remove 3047809
                                                , '3047810'
                                                --, '3047811' --(Block 856) ICD 8 to 9: Map
3047811 to 3047822; Remove 3047811
                                                --, '3047812' --(Block 856) ICD 8 to 9: Map
3047812 to 3047822; Remove 3047812
                                                , '3047813'
                                                , '3047814'
                                                , '3047815'
                                                , '3047816'
                                                , '3047817'
                                                , '3047818'
                                                --, '3047819' --(Block 856) ICD 8 to 9: Map
3047819 to 3047822; Remove 3047819
                                                , '3047820'
                                                , '3047821'
```

```
                                        , '3047822'   --(Block 856) ICD 8 to 9: Map from
3047811, 3047812, 3047819, 3047900 to 3047822; Add 3047822
                                        --, '3047900' --(Block 856) ICD 8 to 9: Map
3047900 to 3047822; Remove 3047900
                                        , '3047901'
                                        , '3047902'
                                        , '3048100'
                                        , '3048200'
                                        , '3048400'
                                        , '3048401'
                                        , '3048402'
                                        , '3048500'
                                        , '3048501'
                                        , '3049000'
                                        , '3049001'
                                        , '3049002'
                                        , '3049100'
                                        , '3049102'
                                        , '3049103'
                                        , '3049104'
                                        , '3049400'
                                        , '3068000'   --(Block 1005) ICD 10 to 11: Map
3047300 to 3068000; Add 3068000
                                        , '3202300'   --(Block 906) ICD 8 to 9: Map
9029500 to 3202300; Add 3202300
                                        , '3202301'   --(Block 906) ICD 8 to 9: Map
9029501 to 3202301; Add 3202301
                                        , '3202302'   --(Block 906) ICD 8 to 9: Map
9029502 to 3202302; Add 3202302
                                        , '3202303'   --(Block 929) ICD 8 to 9: Map
9029503 to 3202303; Add 3202303
                                        , '3202304'   --(Block 929) ICD 8 to 9: Map
9029504 to 3202304; Add 3202304
                                        , '3202305'   --(Block 929) ICD 8 to 9: Map
9029505 to 3202305; Add 3202305
                                        , '3207500'
                                        , '3207501'
                                        , '3207800'
                                        , '3208100'
                                        , '3208400'
                                        , '3208401'
                                        , '3208402'
                                        , '3208700'
                                        , '3209000'
                                        , '3209001'
                                        , '3209002'
                                        , '3209300'
                                        , '3209400'
                                        , '3209500'
                                        , '3842100'
                                        , '3843601'
                                        , '4176400'
                                        , '4176403'
                                        , '4177300'
                                        , '4181600'
                                        , '4181900'
                                        , '4182200'
                                        , '4182500'
                                        , '4183100'
                                        --, '9029500' --(Block 906) ICD 8 to 9: Map
9029500 to 3202300; Remove 9029500
                                        --, '9029501' --(Block 906) ICD 8 to 9: Map
9029501 to 3202301; Remove 9029501
                                        --, '9029502' --(Block 906) ICD 8 to 9: Map
9029502 to 3202302; Remove 9029502
                                        , '4183200'
                                        , '4184900'
                                        , '4185200'
                                        , '4185500'
                                        , '4186100'
                                        , '4186400'
                                        , '4186700'
                                        , '4186800'
                                        , '5203500'
                                        , '9016900'
                                        , '9017100'
```

```
                                        --, '9029503' --(Block 929) ICD 8 to 9: Map
9029503 to 3202303; Remove 9029503
                                        --, '9029504' --(Block 929) ICD 8 to 9: Map
9029504 to 3202304; Remove 9029504
                                        --, '9025905' --(Block 929) ICD 8 to 9: Map
9029505 to 3202305; Remove 9029505
                                        , '9030800'
                                        , '9031500'
                                        , '9034900'
                                        , '9046301'
                                        , '9048800'
                                        , '9206800'
                                        , '9206801'
                                        , '9206802')
                            AND    NOT EXISTS (
                                    SELECT TOP (1) 1
                                    FROM additional_proceduresCTE
                                    WHERE    ProcedureCode    IN (
                                                                  '9251410'
                                                                , '9251419'
                                                                , '9251420'
                                                                , '9251429'
                                                                , '9251430'
                                                                , '9251439'
                                                                , '9251440'
                                                                , '9251449'
                                                                , '9251450'
                                                                , '9251459'
                                                                , '9251469'
                                                                , '9251490'
                                                                , '9251499'
                                                              )
                                )
                            --AND ISDATE(@separation_date) = 1
                            --AND CONVERT(DATE, @separation_date, 126) >= '2013-07-01'

                            AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1

                            AND REPLACE(@separation_date,'-','') >= '20130701'

                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated logic to include hospital code 0020 and associated requirements for metropolitan and country hospital ranges. May 2023

Result

None.

Action

None.

2754: Non-emergency same day chemotherapy procedures where no general anaesthetic is administered are INVALID inpatient episodes for funding

Pseudocode

```
IF
(
(
[Hospital Number] (data item 01) >= 0049 and <= 024
AND
Admission Election] (data item 19) <> 2 (Private)

OR
[Hospital Number] (data item 01) = 0005, 0008, 0014, 0015, 0018, 0019, 0027,0028, 0030, 0033,
0035, 0036, 0042, 0296, 0300, or 0306
)
AND
[Admission Category] (data item 15) <> 2 (Emergency)
AND
[Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
[Principal Diagnosis] (data item 45) = Z511 or Z2921
 AND
Additional [Procedure] (data item 49_002-49_099) <> ([Procedure] in system reference table
with [General Anaesthesia Procedure Flag] = Y
AND
[Funding Source] <> '08' -- Non Medicare ALLOWED
THEN

ACCEPT submitted values
PRINT error message 2754: Non-emergency same day chemotherapy procedures where no general
anaesthetic is administered are INVALID inpatient episodes for funding
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_proceduresCTE AS
    (
        SELECT  ProcedureCode    = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    , additional_diagnosisCTE AS
    (
        SELECT  DiagnosisCode    = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @hospital_code BETWEEN '0049' AND '0249'
                                   AND @admission_election <> '2'
                               )
                               OR
                               (
                                   @hospital_code    IN (
                                                       , '0005'
                                                       , '0008'
                                                       , '0014'
                                                       , '0015'
                                                       , '0018'
                                                       , '0019'
                                                       , '0027'
                                                       , '0028'
```

```
                                        , '0030'
                                        , '0033'
                                        , '0035'
                                        , '0036'
                                        , '0042'
                                        , '0296'
                                        , '0300'
                                        , '0306'
                                    )
                )
            )
            AND @admission_category <> '2'
            AND @admission_date = @separation_date
            AND @principal_diagnosis    IN ('Z511','Z2921')
            AND    NOT EXISTS (
                    SELECT TOP (1) 1
                    FROM additional_proceduresCTE
                    WHERE    ProcedureCode    IN (
                                                    '9251410'
                                                  , '9251419'
                                                  , '9251420'
                                                  , '9251429'
                                                  , '9251430'
                                                  , '9251439'
                                                  , '9251440'
                                                  , '9251449'
                                                  , '9251450'
                                                  , '9251459'
                                                  , '9251469'
                                                  , '9251490'
                                                  , '9251499'
                                                )
                )

            --AND ISDATE(@separation_date) = 1
            --AND CONVERT(DATE, @separation_date, 126) >= '2013-07-01'

AND @funding_source <> '08' -- Non Medicare is ALLOWED: Q1 2024/25

            AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','')),'',0)=1
            AND REPLACE(@separation_date,'-','') >= '20130701'

            THEN 1
            ELSE 0
        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Updated 30 September 2024

Result

None.

Action

None.

2755: Selected non-emergency same day scope procedures where no general anaesthetic is administered are INVALID inpatient episodes for funding

Pseudocode

```
IF
        [Hospital Number] (data item 01) >= 0003 and <= 0300
AND
        [Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
        Principal [Procedure] (data item 49_001) = 1182000 [1005], 3037522 [873], 3045102
        [960], 3045103 [960], 3047300 [1005, 3047301 [1008], 3047302 [1005], 3047303 [850],
        3047304 [861], 3047305 [1005], 3047306 [1008], 3047307 [1005], 3047308 [1005], 3047500
        [882], 3047501 [882], 3047600 [851], 3047601 [851], 3047602 [856], 3047603 [874],
        3047800 [1006], 3047801 [1007], 3047802 [1007], 3047803 [1007], 3047804 [1008],
        3047805 [892], 3047806 [851], 3047807 [870], 3047809 [851], 3047810 [852], 3047811
        [856], 3047812 [856], 3047813 [861], 3047814 [1006], 3047815 [1007], 3047816 [1007],
        3047817 [1007], 3047818 [1008], 3047819 [856], 3047820 [1007], 3047821 [1007], 3047900
        [856], 3047901 [931], 3047902 [908], 3048100 [870], 3048200 [870], 3048400 [957],
        3048401 [957], 3048402 [974], 3048500 [963], 3048501 [963], 3049000 [853], 3049001
        [853], 3049002 [853], 3049100 [958], 3049102 [975], 3049103 [975], 3049104 [975],
        3049400 [971], 3207500 [904], 3207501 [910], 3207800 [910], 3208100 [910], 3208400
        [905], 3208401 [911], 3208402 [905], 3208700 [911], 3209000 [905], 3209001 [911],
        3209002 [905], 3209300 [911], 3209400 [917], 3209500 [891], 3842100 [554], 3843601
        [549], 4176400 [370], 4176403 [520], 4177300 [421], 4181600 [850], 4181900 [862],
        4182200 [861], 4182500 [852], 4183100 [862], 9029503 [929], 9029504 [929], 9209505
        [929], 5203500 [419], 4184900 [520], 4185500 [520], 4186800 [522], 4185200 [523],
        4186100 [523], 4186400 [523], 4186700 [523], 9016900 [551], 9017100 [556], 4183200
        [862], 9206800 [862], 9206801 [896], 9206802 [892], 9030800 [908], 9031500 [933],
        9034900 [975], 9046301 [1330], or 9048800 [1330]
AND
        Additional [Procedure] (data item 49_002-49_099) <> 9251410, 9251419, 9251420,
        9251429, 9251430, 9251439, 9251440, 9251449, 9251450, 9251459, 9251469, 9251490, or
        9251499
THEN
        ACCEPT submitted values
        PRINT error message 2755: Selected non-emergency same day scope procedures where no
        general anaesthetic is administered are INVALID inpatient episodes for funding
```

Status

Inactive; disabled from 30-Jun-2008.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
convert(date,separation_date,103) between '2007-07-01'  and  '2008-06-30' and
Hospital_Code between '0003' and '0300' and
convert(date,Admission_Date,103) = convert(date,separation_date,103) and
(Principal_Procedure in vw_Codes_ICD10AM icd_xfg 1 icd_code or
Principal_Procedure in vw_Codes_ICD10AM icd_xfg 5 icd_code ) and
dbo.ValidateDelimitedField(additional_procedure,',',1,26) in vw_Proc_xfgnot4icd_code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2756: Non-emergency same day chemotherapy procedures where no general anaesthetic is administered are INVALID inpatient episodes for funding

Pseudocode

```
IF
	[Hospital Number] (data item 01) >= 0003 and <= 0300
AND
	[Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
	[Principal Diagnosis] (data item 45) = Z511
AND
	[Additional Diagnosis] (data item 46_001-46_099) <> B20, B21, B22, B230, B238, or B24
AND
	Additional [Procedure] (data item 49_002-49_099) <> 9251410, 9251419, 9251420,
	9251429, 9251430, 9251439, 9251440, 9251449, 9251450, 9251459, 9251469, 9251490, or
	9251499
THEN
	ACCEPT submitted values
	PRINT error message 2756: Non-emergency same day chemotherapy procedures where no
	general anaesthetic is administered are INVALID inpatient episodes for funding
```

Status

Inactive; disabled from 30-Jun-2008.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
convert(date,separation_date,103) between '2007-07-01'  and  '2008-06-30' and
Hospital_Code between '0003' and '0300' and
convert(date,Admission_Date,103) = convert(date,separation_date,103) and
Principal_Diagnosis = 'Z511' and
dbo.ContainsStrings('|B20|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|B21|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|B22|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|B230|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|B238|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|B24|',additional_diagnosis) = 0 and
dbo.ValidateDelimitedField(additional_procedure,',',1,26) in vw_Proc_xfgnot4icd_code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2757: Non-emergency same day bronchoscopy procedures where no general anaesthetic is administered are INVALID inpatient episodes; ENSURE outpatient record is created

Pseudocode

```
IF
(
        (
                [Hospital Number] (data item 01) >= 0049 and <= 0249
                AND
                [Admission Election] (data item 19 <> 2 (Private)
        )
        OR
        [Hospital Number] (data item 01) = 0003, 0005, 0008, 0014, 0015, 0018, 0019, 0027,
        0028, 0030, 0033, 0035, 0036, 0042, 0296, 0300, or 0306
)
AND
        [Admission Category] (data item 15) <> 2 (Emergency)
AND
        [Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
        Principal [Procedure] (data item 49_001) = 4188900, 4188901, 4189200, 4189201,
        4189500, 4189800, 4189801, 4190100, 4190400, or 9016300
AND
        Additional [Procedure] (data item 49_002-49_099) <> 9251410, 9251419, 9251420,
        9251429, 9251430, 9251439, 9251440, 9251449, 9251450, 9251459, 9251469, 9251490, or
        9251499
THEN
        ACCEPT submitted values
        PRINT error message 2757: Non-emergency same day bronchoscopy procedures where no
        general anaesthetic is administered are INVALID inpatient episodes; ENSURE outpatient
        record is created
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_proceduresCTE AS
    (
        SELECT  ProcedureCode    = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @hospital_code BETWEEN '0049' AND '0249'
                                   AND @admission_election <> '2'
                               )
                               OR
                               (
                                   @hospital_code    IN (
                                                       '0003'
                                                     , '0005'
                                                     , '0008'
                                                     , '0014'
                                                     , '0015'
                                                     , '0018'
                                                     , '0019'
                                                     , '0027'
                                                     , '0028'
                                                     , '0030'
                                                     , '0033'
                                                     , '0035'
                                                     , '0036'
                                                     , '0042'
```

```
                                                , '0296'
                                                , '0300'
                                                , '0306'
                                            )
                                    )
                                )
                                AND @admission_category <> '2'
                                AND @admission_date = @separation_date

                                AND @principal_procedure    IN (--'4188900' --(Block 543) ICD 8 to
9: Map 4188900 to 4188905; Remove 4188900
                                                              '4188901'
                                                            , '4188905'    --(Block 543) ICD 8
to 9: Map 4188900, 4189800 to 4188905; Add 4188905
                                                            --, '4189200'  --(Block 544) ICD 8
to 9: Map 4189200 to 4189804; Remove 4189200
                                                            --, '4189201'  --(Block 545) ICD 8
to 9: Map 4189201 to 9016301; Remove 4189201
                                                            --, '4189500'  --(Block 544) ICD 8
to 9: Map 4189500 to 4189502; Remove 4189500
                                                            , '4189502'    --(Block 544) ICD 8
to 9: Map 4189500 to 4189502; Add 4189502
                                                            --, '4189800'  --(Block 543) ICD 8
to 9: Map 4189800 to 4188905; Remove 4189800
                                                            --, '4189801'  --(Block 544) ICD 8
to 9: Map 4189801 to 4189804; Remove 4189801
                                                            , '4189804'    --(Block 544) ICD 8
to 9: Map 4189200, 4189801 to 4189804; Add 4189804
                                                            --, '4190100'  --(Block 545) ICD 8
to 9: Map 4190100 to 9016301; Remove 4190100
                                                            , '4190400'
                                                            --, '9016300'  --(Block 545) ICD 8
to 9: Map 9016300 to 9016301; Remove 9016300
                                                            , '9016301')   --(Block 545) ICD 8
to 9: Map 4189201, 4190100, 9016300 to 9016301; Add 9016301

                                --AND @principal_procedure    IN (
                                --                                '4188905'
                                --                              , '4188901'
                                --                              , '4189804'
                                --                              , '9016301'
                                --                              , '4189502'
                                --                              , '4188905'
                                --                              , '4189804'
                                --                              , '9016301'
                                --                              , '4190400'
                                --                              , '9016301'
                                --                            )

                                AND    NOT EXISTS (
                                        SELECT TOP (1) 1
                                        FROM additional_proceduresCTE
                                        WHERE    ProcedureCode    IN (
                                                                      '9251410'
                                                                    , '9251419'
                                                                    , '9251420'
                                                                    , '9251429'
                                                                    , '9251430'
                                                                    , '9251439'
                                                                    , '9251440'
                                                                    , '9251449'
                                                                    , '9251450'
                                                                    , '9251459'
                                                                    , '9251469'
                                                                    , '9251490'
                                                                    , '9251499'
                                                                  )
                                    )

                                --AND ISDATE(@separation_date) = 1
                                --AND CONVERT(DATE, @separation_date, 126) >= '2013-07-01'

                                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','')),'',0)=1
                                AND REPLACE(@separation_date,'-','') >= '20130701'

                                THEN 1
```

```
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Made Inactive December 2021.

Result

None.

Action

None.

2760: [Time Of Transfer To Discharge Lounge] format is INVALID

Pseudocode

```
IF
(
	[Time Of Transfer To Discharge Lounge] (data item 53) < 0000 or > 2400
)
THEN
	ACCEPT submitted values
	PRINT error message 2760: [Time Of Transfer To Discharge Lounge] format is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.IsHHMM(time_transfer_to_discharge_lounge_original,'0000',0) > 0 or
nullif(time_transfer_to_discharge_lounge_original,'') is null
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2761: [Date Of Transfer To Discharge Lounge] REQUIRES [Time of Transfer To Discharge Lounge]

Pseudocode

```
IF
	[Date Of Transfer To Discharge Lounge] (data item 52) is a valid date
AND
	[Time of Transfer To Discharge Lounge] (data item 53) is blank
THEN
	ACCEPT submitted values
	PRINT error message 2761: [Date Of Transfer To Discharge Lounge] REQUIRES [Time of
	Transfer To Discharge Lounge]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret bit
---declare @s varchar(1000)
--set
@s=@date_transfer_to_discharge_lounge_original+'|'+@time_transfer_to_discharge_lounge_original
--exec xp_logevent 50001,@s ----expect date like ddmmyyyy and time like hhmm
SELECT @ret = CASE
WHEN ((select dbo.IsDDMMYYYY(@date_transfer_to_discharge_lounge_original,null,0)) = 1
      and (select dbo.IsHHMM(@time_transfer_to_discharge_lounge_original,null,0)) = 0)
      or ((select dbo.IsDDMMYYYY(@date_transfer_to_discharge_lounge_original,null,0)) = 1
         and @time_transfer_to_discharge_lounge_original = '0000')
      THEN 1
ELSE 0
END
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2762: [Time of Transfer To Discharge Lounge] REQUIRES [Date of Transfer To Discharge Lounge]

Pseudocode

```
IF
	[Date Of Transfer To Discharge Lounge] (data item 52) is blank
AND
	[Time of Transfer To Discharge Lounge] (data item 53) is a valid time
THEN
	ACCEPT submitted values
	PRINT error message 2762: [Time of Transfer To Discharge Lounge] REQUIRES [Date of
	Transfer To Discharge Lounge]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.ishhmm(time_transfer_to_discharge_lounge_original,null,0) = 1 and
time_transfer_to_discharge_lounge_original <> '0000' and
date_transfer_to_discharge_lounge_original = '00000000'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2763: [Date Of Transfer To Discharge Lounge] < [Admission Date]

Pseudocode

```
IF
	[Date Of Transfer To Discharge Lounge] (data item 52) < [Admission Date] (data item
	21)
THEN
	ACCEPT submitted values
	PRINT error message 2763: [Date Of Transfer To Discharge Lounge] < [Admission Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
convert(date,date_time_transfer_to_discharge_lounge,103) < convert(date,admission_date,103)
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2764: [Date Of Transfer To Discharge Lounge] > [Separation Date]

Pseudocode

```
IF
	[Date Of Transfer To Discharge Lounge] (data item 52) > [Separation Date] (data item
	43)
THEN
	ACCEPT submitted values
	PRINT error message 2764: [Date Of Transfer To Discharge Lounge] > [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
convert(date,date_time_transfer_to_discharge_lounge,103) > convert(date,separation_date,103)
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2765: [Time Of Transfer To Discharge Lounge] < [Admission Time] where [Date Of Transfer To Discharge Lounge] = [Admission Date]

Pseudocode

```
IF
	[Date Of Transfer To Discharge Lounge] (data item 52) = [Admission Date] (data item
	21)
AND
	[Time Of Transfer To Discharge Lounge] (data item 53) < [Admission Time] (data item
	67)
THEN
	ACCEPT submitted values
	PRINT error message 2765: [Time Of Transfer To Discharge Lounge] < [Admission Time]
	where [Date Of Transfer To Discharge Lounge] = [Admission Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
date_transfer_to_discharge_lounge = admission_date and
time_transfer_to_discharge_lounge < admission_time
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2766: [Time Of Transfer To Discharge Lounge] > [Separation Time] where [Date Of Transfer To Discharge Lounge] = [Separation Date]

Pseudocode

```
IF
	[Date Of Transfer To Discharge Lounge] (data item 52) = [Separation Date] (data item
	43)
AND
	[Time Of Transfer To Discharge Lounge] (data item 53) > [Separation Time] (data item
	70)
THEN
	ACCEPT submitted values
	PRINT error message 2766: [Time Of Transfer To Discharge Lounge] > [Separation Time]
	where [Date Of Transfer To Discharge Lounge] = [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
date_transfer_to_discharge_lounge = separation_date and
time_transfer_to_discharge_lounge > separation_time
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

2770: [Condition Onset Flag] for [Principal Diagnosis] or [Additional Diagnosis] or [Activity When Injured] or [External Cause] or [Place Of Occurrence] not (1, or 2)

Pseudocode

```
IF
(
	[Condition Onset Flag] for [Principal Diagnosis] (data item 97) <> 1 (During care)
	AND
	[Condition Onset Flag] for [Principal Diagnosis] (data item 97) <> 2 (Not during care)
)
OR
(
	[Condition Onset Flag] for [Additional Diagnosis] (data item 97_001-97_099) <> 1
	(During care)
	AND
	[Condition Onset Flag] for [Additional Diagnosis] (data item 97_001-97_099) <> 2 (Not
	during care)
)
THEN
	ACCEPT submitted values
	PRINT error message 2770: [Condition Onset Flag] for [Principal Diagnosis] or
	[Additional Diagnosis] or [Activity When Injured] or [External Cause] or [Place Of
	Occurrence] not (1, or 2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

DECLARE @IsInValid  SMALLINT = 0 ;

if convert(datetime,@separation_date_time)>=convert(datetime,'2013-07-01')
begin

    ;WITH diagnosis_And_Onset_FlagCTE AS
    (
        SELECT      Diagnosis_Code                = @principal_diagnosis
                , Condition_Onset_Flag            = @principal_diagnosis_condition_onset_flag
        UNION
        SELECT      Diagnosis_Code                = data.val1
                , Condition_Onset_Flag            = data.val2
        FROM dbo.Validate_2_DelimitedFields(@additional_diagnosis,
@additional_diagnosis_condition_onset_flag , ',', ',', 1, 101) data
        UNION
        SELECT      Diagnosis_Code                = @activity_when_injured
                , Condition_Onset_Flag            =
@activity_when_injured_condition_onset_flag
        UNION
        SELECT      Diagnosis_Code                = @external_cause
                , Condition_Onset_Flag            = @external_cause_condition_onset_flag
        UNION
        SELECT      Diagnosis_Code                = @place_of_occurrence
                , Condition_Onset_Flag            = @place_of_occurrence_condition_onset_flag

    )
    SELECT  @IsInValid = CASE
                            WHEN    EXISTS (
                                        SELECT TOP (1) 1
                                        FROM diagnosis_And_Onset_FlagCTE
                                        WHERE    NULLIF(Diagnosis_Code, '') IS NOT NULL
                                           AND    ISNULL(Condition_Onset_Flag, '') NOT IN
('1', '2')
                                    )
                            THEN 1
                            ELSE 0
                        END ;
end
else
```

```
begin
    set @IsInValid=0 ---shouldn't trigger for episodes before 1st Jul 2013
end
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2771: [Condition Onset Flag] for [Principal Diagnosis] MUST BE (2) when Age at admission of (> 28 days)

Pseudocode

```
IF
        Age at admission > 28 days
AND
        [Condition Onset Flag] for [Principal Diagnosis] (data item 97) = 1 (During care)
THEN    ACCEPT submitted values
        PRINT error message 2771: [Condition Onset Flag] for [Principal Diagnosis] MUST BE (2)
        when Age at admission of (> 28 days)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
  IF ISDATE(@date_of_birth)=1 AND ISDATE(@admission_date)=1
  BEGIN
    IF   (
      @principal_diagnosis_condition_onset_flag = '1'
      AND
      @date_of_birth <> @admission_date -- If any is null then its !=
      AND DATEDIFF(dd,@date_of_birth,@admission_date)>28
    )
    BEGIN
      SET @IsInValid = 1 ;
    END ;
  END
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

2772: [Funding Source] of (12) or (14) REQUIRES [Admission Election] of (1) AND [Hospital Insurance] of (2) AND [Source of Referral] of (7)

```
Pseudocode
IF
(
        [Funding Source] (Data item 95) = 12 (Other hospital or Public authority),
        OR
        [Funding Source] (Data item 95) = 14 (Private Hospital Funding Agreement)
        AND
        [Hospital Number] (data item 01) <> 0601
)
AND
(
        [Admission Election] (data item 19) <> 1 (Hospital)
        OR
        [Hospital Insurance] (data item 17) <> 2 (No hospital Insurance)
        OR
        [Source of Referral] (data item 16) <> 7 (Contracted Service)
)

THEN
ACCEPT submitted record
PRINT error message: 2772: [Funding Source] of (12) or (14) REQUIRES [Admission Election] of
(1) AND [Hospital Insurance] of (2) AND [Source of Referral] of (7)
```

Status

Active. Implemented 1 January 2022

Implementation

Issue

None.

Update data quality check

Updated to include Funding Source 12 and exclude Hospital Code 0601 – March 2022

Result

None.

Action

None.

2773: [Procedure] from (8800000-8800099, 8800600-8800699) NOT PERMITTED

Pseudocode

```
IF
       [Procedure] (data item 49_001-49_099) = (8800000-8800099, 8800600-8800699)

THEN
       ACCEPT submitted record
       PRINT error message 2773: [Procedure from 8800000-8800099, 8800600-8800699] NOT
PERMITTED
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2774: [Additional Diagnosis] of (B972) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712, or U072)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46) = B972
AND
        (
        [Principal Diagnosis] (data item 45) = U0711, U0712 or U072
        OR
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
        )
THEN
        ACCEPT submitted record
        PRINT error message 2774: [Additional Diagnosis] of (B972) NOT COMPATIBLE WITH
[Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712 or U072)
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2775: [Principal Diagnosis] or [Additional Diagnosis] of (U049) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712, U072 or B342)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = U049
        OR
        [Additional Diagnosis] (data item 46) = U049
        )
AND
        (
        [Principal Diagnosis] (data item 45) = U0711, U0712, U072 or B342
        OR
        [Additional Diagnosis] (data item 46) = U0711, U0712, U072 or B342
        )
THEN
        ACCEPT submitted record
        PRINT error message 2775: [Principal Diagnosis] or [Additional Diagnosis] of (U049)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712,
        U072 or B342)
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2776: [Principal Diagnosis] or [Additional Diagnosis] of (U0711) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0712)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = U0711
        OR
        [Additional Diagnosis] (data item 46) = U0711
        )
AND
        (
        [Principal Diagnosis] (data item 45) = U0712
        OR
        [Additional Diagnosis] (data item 46) = U0712
        )
THEN
        ACCEPT submitted record
        PRINT error message 2776: [Principal Diagnosis] or [Additional Diagnosis] of (U0711)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0712)
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2777: [Principal Diagnosis] or [Additional Diagnosis] of (Z115) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (Z0381 or Z110)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = Z115
        OR
        [Additional Diagnosis] (data item 46) = Z115
        )
AND
        (
        [Principal Diagnosis] (data item 45) = Z0381 or Z110
        OR
        [Additional Diagnosis] (data item 46) = Z0381 or Z110
        )
THEN
        ACCEPT submitted record
        PRINT error message 2777: [Principal Diagnosis] or [Additional Diagnosis] of (Z115)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (Z0381 or Z110)
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2778: [Principal Diagnosis] or [Additional Diagnosis] of (Z2081) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712, or U072)

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = Z2081
        OR
        [Additional Diagnosis] (data item 46) = Z2081
        )
AND
        (
        [Principal Diagnosis] (data item 45) = U0711, U0712 or U072
        OR
        [Additional Diagnosis] (data item 46) = U0711, U0712 or U072
        )
THEN
        ACCEPT submitted record
        PRINT error message 2778: [Principal Diagnosis] or [Additional Diagnosis] of (Z2081)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (U0711, U0712
        or U072)
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2779: [Principal Diagnosis] or [Additional Diagnosis] of (Z252) REQUIRES [Procedure] from 9215703-9215706

Pseudocode

```
IF
        (
        [Principal Diagnosis] (data item 45) = Z252
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = Z252
        )
AND
        [Procedure] (data item 49_001-49_099) <> 9215703, 9215704, 9215705, or 9215706
        THEN
        ACCEPT submitted values
        PRINT error message 2779: [Principal Diagnosis] or [Additional Diagnosis] of (Z252)
        REQUIRES [Procedure] from 9215703-9215706
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

2780: [Additional Diagnosis] of (Z8610 – Z8618) NOT COMPATIBLE WITH [Additional Diagnosis] of (U073 or U074)

Pseudocode

```
IF
       [Additional Diagnosis] (data item 46) = Z8610 – Z8618
AND
       [Additional Diagnosis] (data item 46) = U073 or U074

THEN
       ACCEPT submitted record
       PRINT error message 2780: [Additional Diagnosis] of (Z8610 – Z8618) NOT COMPATIBLE W
       ITH [Additional Diagnosis] of (U073 or U074)
```

Status

Inactive.

Implementation

Issue

None.

Update data quality check

Updated May 2023 to make Inactive. Replaced by data quality check 4660..

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4000: Principal [Procedure] may be INVALID for same day inpatient episodes (may violate Technical Bulletins 28 or 29); CONSIDER replacing inpatient record with outpatient record

Pseudocode

```
IF
[Hospital Number] (data item 01) < 4000
AND
[Admission Date] (data item 21) = [Separation Date] (data item 43)
AND
Length of Stay <= 240 minutes
AND
(
[Nature Of Separation] (data item 42) <> 5 (Died – autopsy)
AND
[Nature Of Separation] (data item 42) <> 6 (Died – no autopsy)
)
AND
Principal [Procedure] (data item 49_001) = 1121500
, 1160200
, 1171200
, 1180000
, 1181000
, 1183000
, 1190300
, 1191200
, 1191500
, 1191700
, 1191900
, 1200000
, 1200300
, 1201201
, 1201700
, 1202101
, 1202200
, 1202400
, 1370603
, 1370605
, 1370900
, 1375500
, 1375700
, 1393902
, 1405001
, 1405002
, 1420300
, 1420600
, 1651400
, 1651401
, 3001001
, 3007100
, 3120500
, 3453004
, 3553903
, 3561400
, 4164700
, 4164701
, 4176400
, 4280900
, 4410400
, 5503600
, 5523800
, 5523801
, 5524400
, 5524401
, 5527400
, 5527600
, 6130600
, 9090100
, 9090101
, 9090102
, 9090103
, 9090104
, 9090105
, 9090106
, 9090107
```

```
, 9090108
, 9090109
, 9203600
, 9205801
, 9206100
, 9214300
, 9214400
, 9214500
, 9214600
, 9214700
, 9214800
, 9214900
, 9215000
, 9215100
, 9215200
, 9215300
, 9215400
, 9215500
, 9215600
, 9215700
, 9215800
, 9215900
, 9216000
, 9216100
, 9216200
, 9216300
, 9216400
, 9216500
, 9216600
, 9216700
, 9216800
, 9216900
, 9217000
, 9217100
, 9217200
, 9217300
, 9217400
, 9217500
, 9217600
, 9217700
, 9217900
, 9609200
, 9619602
, 9619702
, 9619802
, 9619902
, 9619919
, 9620002
, 9620102
, 9620202
, 9620207
, 9620502
, 9620602
, 9620919
, 9625500
, or 9745500
THEN
        ACCEPT the submitted record
        PRINT error message 4000: Principal [Procedure] may be INVALID for same day inpatient
        episodes (may violate Technical Bulletins 28 or 29); CONSIDER replacing inpatient
        record  with outpatient record
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

Increased range of Hospital codes.

Updated to Principle Procedure

Result

None.

Action

None.

4001: [Source Of Referral] of (A, or E), and [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) = A (Administrative admission)
        OR
        [Source Of Referral] (data item 16) = E (End of quarter reporting)
)
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT the submitted record
        PRINT error message 4001: [Source Of Referral] of (A, or E), and [Admission Category]
        not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
source_of_referral in ('A','E') and
admission_category <> '4'
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4002: [Source Of Referral] not (A, or E), [Principal Diagnosis] of (Z491), and [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
)
AND
        [Principal Diagnosis] (data item 45) = Z491
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT the submitted record
        PRINT error message 4002: [Source Of Referral] not (A, or E), [Principal Diagnosis] of
        (Z491), and [Admission Category] not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Source_of_Referral not in ('A','E') and
Principal_Diagnosis = 'Z491' and
Admission_Category <> '4'
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4003: [Source Of Referral] not (A, or E), [Principal Diagnosis] of (Z511 or Z2921) and [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
)
AND
        [Principal Diagnosis] (data item 45) = Z511 or Z2921
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT the submitted record
        PRINT error message 4003: [Source Of Referral] not (A, or E), [Principal Diagnosis] of
        (Z511 or Z2921) and [Admission Category] not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               NULLIF(@source_of_referral,'') NOT IN ('A','E')
                               AND @principal_diagnosis in ('Z511','Z2921')
                               AND NULLIF(@admission_category,'') <> '4'
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Updated 1 July 2022.

Result

None.

Action

None.

4004: [Source Of Referral] not (A, or E), [Principal Diagnosis] of (Z510) and [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
)
AND
        [Principal Diagnosis] (data item 45) = Z510
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT the submitted record
        PRINT error message 4004: [Source Of Referral] not (A, or E), [Principal Diagnosis] of
        (Z510) and [Admission Category] not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               NULLIF(@source_of_referral,'') NOT IN ('A','E')
                               AND @principal_diagnosis = 'Z510'
                               AND NULLIF(@admission_category,'') <> '4'
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4005: [Principal Diagnosis] or [Additional Diagnosis] in system reference table with [Death Diagnosis Flag] of (Y) REQUIRES [Nature Of Separation] of (5, or 6)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = ([Diagnosis] in system reference table with
        [Death Diagnosis Flag] = Y)
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = ([Diagnosis] in system reference
        table with [Death Diagnosis Flag] = Y)
AND
        [Nature Of Separation] (data item 42) <> 5 (Died: No autopsy)
        AND
        [Nature Of Separation] (data item 42) <> 6 (Died: Autopsy)
THEN
        ACCEPT submitted values
        PRINT error message 4005: [Principal Diagnosis] or [Additional Diagnosis] in system
        reference table with [Death Diagnosis Flag] of (Y) REQUIRES [Nature Of Separation] of
        (5, or 6)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE AS
    (
        SELECT    icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
        UNION
        SELECT d.icd_code FROM (VALUES(@principal_diagnosis)) d(icd_code) WHERE
NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN    EXISTS (
                                        SELECT TOP (1) 1
                                        FROM all_diagnosisCTE
                                        WHERE   (
                                                    icd_Code IN (
                                                          'I461'
                                                        , 'O95'
                                                        , 'P95'
                                                        , 'P964'
                                                        , 'R95'
                                                        , 'R950'
                                                        , 'R959'
                                                        , 'R960'
                                                        , 'R961'
                                                        , 'R98'
                                                        , 'R99'
                                                    )
                                                    OR    icd_Code BETWEEN 'O960' AND 'O979'
                                                )
                                            AND @nature_of_separation NOT IN ('5', '6')
                                    )
                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Error message updated December 2021.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4006: [Source Of Referral] not (A, or E), [Principal Diagnosis] of (O80, or O840) AND [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
)
AND
(
        [Principal Diagnosis] (data item 45) = O80
        OR
        [Principal Diagnosis] (data item 45) = O840
)
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT submitted values
        PRINT error message 4006: [Source Of Referral] not (A, or E), [Principal Diagnosis] of
        (O80, or O840) AND [Admission Category] not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               NULLIF(@source_of_referral,'') NOT IN ('A','E')
                               AND @principal_diagnosis IN ('O80', 'O840')
                               AND NULLIF(@admission_category,'') <> '4'
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4007: [Source Of Referral] not (A, or E), [Principal Diagnosis] not (O80, O840), [Episode Of Care] of (5), and [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
)
AND
        [Principal Diagnosis] (data item 45) <> O80, O840
AND
        [Episode Of Care] (data item 51) = 5 (Unqualified newborn)
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT submitted values
        PRINT error message 4007: [Source Of Referral] not (A, or E), [Principal Diagnosis]
        not (O80, O840), [Episode Of Care] of (5), and [Admission Category] not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               NULLIF(@source_of_referral,'') NOT IN ('A','E')
                               AND @principal_diagnosis NOT IN ('O80', 'O840')
                               AND @episode_of_care = '5'
                               AND NULLIF(@admission_category,'') <> '4'
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4008: [Source Of Referral] not (4, A, E, or X), [Principal Diagnosis] not (O80, O840), [Episode Of Care] not (5), [Admission Date] = [Date Of Birth], and [Admission Category] not (4)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> 4 (Inter-Hospital transfer)
        AND
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
        AND
        [Source Of Referral] (data item 16) <> X (Retrieval)
)
AND
        [Principal Diagnosis] (data item 45) <> O80, O840
AND
        [Episode Of Care] (data item 51) <> 5 (Unqualified newborn)
AND
        [Admission Date] (data item 21) = [Date Of Birth] (data item 09)
AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
THEN
        ACCEPT submitted values
        PRINT error message 4008: [Source Of Referral] not (4, A, E, or X), [Principal
        Diagnosis] not (O80, O840), [Episode Of Care] not (5), [Admission Date] = [Date Of
        Birth], and [Admission Category] not (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Source_of_Referral not in ('A','E', '4','X') and
--Principal_Diagnosis not in ('Z491','Z511','Z510') and
Principal_Diagnosis not in ('O80','O840') and
Episode_Of_Care <> ('5') and
Admission_Date = date_of_birth and
Admission_Category <> ('4')
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4010: [Postcode] not in system reference table

Pseudocode

```
IF
       [Postcode] (data item 06) <> [Postcode] in system reference table
THEN
       ACCEPT submitted values
       PRINT error message 4010: [Postcode] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Postcode IN codes.Location lc_Postcode
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4012A: [External Cause] of not blank and [Condition Onset Flag] for [External Cause] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for [External Cause] to (9)

Pseudocode

```
IF
(
        [External Cause] (data item 47) is not blank
        AND
        (
                [Condition Onset Flag] for [External Cause] (data item 98) <> 1 (During care)
                AND
                [Condition Onset Flag] for [External Cause] (data item 98) <> 2 (Not during
                care)
                AND
                [Condition Onset Flag] for [External Cause] (data item 98) <> 9 (Not reported)
        )
)
THEN
        DEFAULT [Condition Onset Flag] for [External Cause] (data item 98) = 9 (Not reported)
        PRINT error message 4012A: [External Cause] of not blank and [Condition Onset Flag]
        for [External Cause] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for [External
        Cause] to (9)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    IF (
      NULLIF(@external_cause, '') IS NOT NULL
      AND NOT EXISTS
      (
         SELECT TOP (1) 1
         FROM codes.domain
         WHERE   dc_field_name = 'External Cause - condition onset flag'
            AND dc_code = ISNULL(@external_cause_condition_onset_flag, '')
      )
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

   RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4012B: [Place Of Occurrence] of not blank and [Condition Onset Flag] for [Place Of Occurrence] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for [Place Of Occurrence] to (9)

Pseudocode

```
IF
(
        [Place Of Occurrence] (data item 94) is not blank
        AND
        (
                [Condition Onset Flag] for [Place Of Occurrence] (data item 99) <> 1 (During
                care)
                AND
                [Condition Onset Flag] for [Place Of Occurrence] (data item 99) <> 2 (Not
                during care)
                AND
                [Condition Onset Flag] for [Place Of Occurrence] (data item 99) <> 9 (Not
                reported)
        )
)
THEN
        DEFAULT [Condition Onset Flag] for [Place Of Occurrence] (data item 99) = 9 (Not
        reported)
        PRINT error message 4012B: [Place Of Occurrence] of not blank and [Condition Onset
        Flag] for [Place Of Occurrence] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for
        [Place Of Occurrence] to (9)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    IF (
      NULLIF(@place_of_occurrence, '') IS NOT NULL
      AND NOT EXISTS
      (
         SELECT TOP (1) 1
         FROM codes.domain
         WHERE   dc_field_name = 'Place of Occurrence - condition onset flag'
            AND dc_code = ISNULL(@place_of_occurrence_condition_onset_flag, '')
      )
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

   RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4012C: [Activity When Injured] of not blank and [Condition Onset Flag] for [Activity When Injured] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for [Activity When Injured] to (9)

Pseudocode

```
IF
(
        [Activity When Injured] (data item 93) is not blank
        AND
        (
                [Condition Onset Flag] for [Activity When Injured] (data item 92) <> 1 (During
                care)
                AND
                [Condition Onset Flag] for [Activity When Injured] (data item 92) <> 2 (Not
                during care)
                AND
                [Condition Onset Flag] for [Activity When Injured] (data item 92) <> 9 (Not
                reported)
        )
)
THEN
        DEFAULT [Condition Onset Flag] for [Activity When Injured] (data item 92) = 9 (Not
        reported)
        PRINT error message 4012C: [Activity When Injured] of not blank and [Condition Onset
        Flag] for [Activity When Injured] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for
        [Activity When Injured] to (9)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    IF (
      NULLIF(@activity_when_injured, '') IS NOT NULL
      AND NOT EXISTS
      (
         SELECT TOP (1) 1
         FROM codes.domain
         WHERE   dc_field_name = 'Activity when Injured - condition onset flag'
            AND dc_code = ISNULL(@activity_when_injured_condition_onset_flag, '')
      )
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

   RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4012D: [Additional Diagnosis] of not blank and [Condition Onset Flag] for [Additional Diagnosis] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for [Additional Diagnosis] to (9)

Pseudocode

```
IF
(
	[Additional Diagnosis] (data item 46_001-46_099) is not blank
	AND
	(
		[Condition Onset Flag] for [Additional Diagnosis ] (data item 97_001-97_099) <>
		1 (During care)
		AND
		[Condition Onset Flag] for [Additional Diagnosis ] (data item 97_001-97_099) <>
		2 (Not during care)
		AND
		[Condition Onset Flag] for [Additional Diagnosis ] (data item 97_001-97_099) <>
		9 (Not reported)
	)
)
THEN
	DEFAULT [Condition Onset Flag] for [Additional Diagnosis ] (data item 97_001-97_099) =
	9 (Not reported)
	PRINT error message 4012D: [Additional Diagnosis] of not blank and [Condition Onset
	Flag] for [Additional Diagnosis ] not (1, 2, or 9) DEFAULTS [Condition Onset Flag] for
	[Additional Diagnosis ] to (9)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_diagnosis_And_Onset_FlagCTE AS
    (
        SELECT     Icd Code      = data.val1
            , Onset_Flag   = data.val2
        FROM dbo.Validate_2_DelimitedFields(@additional_diagnosis,
@additional_diagnosis_condition_onset_flag , ',', ',', 1, 26) data
        WHERE   NULLIF(data.val1, '') IS NOT NULL -- Note: Expression which exists today
filters out null or invalid diagnosis in the checks
         AND data.val1 IN (SELECT icd_code FROM [dbo].[vw_Codes_ICD10AM])
    )
    SELECT  @IsInValid = CASE
                            WHEN   EXISTS (
                              SELECT TOP (1) 1
                              FROM additional diagnosis And Onset FlagCTE
                              WHERE   ISNULL(Onset_Flag, '') NOT IN (
                                       SELECT dc_code
                                       FROM codes.domain
                                       WHERE   dc_field_name = 'Additional Diagnosis(es) -
condition onset flag(s)'
                                     )
                            )
                             THEN 1
                             ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4013: [Referral For Health Care] of (21 or 24) NOT COMPATIBLE WITH [Nature of Separation] of (1, or 3)

Pseudocode

```
IF
(
	[Referral For Further Health Care] (data item 72) = 21 (NDIS short-term accommodation)
	OR
	[Referral For Further Health Care] (data item 72) = 24 (NDIS residential aged care:
	Not usual place of res)

)
AND
(
	[Nature Of Separation] (data item 42) = 1 (Home)
	OR
	[Nature Of Separation] (data item 42) = 3 (Residential aged care facility)
)
THEN
	ACCEPT submitted values
	PRINT error message 4013: [Referral For Health Care] of (21 or 24) NOT COMPATIBLE WITH
	[Nature of Separation] of (1, or 3)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

Updated 31 March for Referral of Further Care code 21 and 24 to be not compatible with Nature of Separation = 1 or 3.

Result

None.

Action

None.

4015: [Suburb / Locality] and [Postcode] combination not in system reference table

Pseudocode

```
IF
(
        [Suburb / Locality] (data item 05)
        &
        [Postcode] (data item 06)
)
<>
(
        [Suburb / Locality] in system reference table
        &
        [Postcode] in system reference table
)
THEN
        ACCEPT submitted values
        PRINT error message 4015: [Suburb / Locality] and [Postcode] combination not in system
        reference table
```

Status

Active.

Implementation

```
BEGIN
    DECLARE @IsInvalid SMALLINT = 0 ;

    IF  NOT EXISTS(
            SELECT TOP (1) 1
            FROM HealthValidator.Codes.Location loc
            WHERE   loc.lc_Postcode = @postcode
                AND loc.lc_Postcode_Locality = @suburb_locality
        )
    BEGIN
        SET @IsInvalid = 1 ;
    END ;

    RETURN @IsInvalid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4020: [Country Of Birth] not in system reference table

Pseudocode

```
IF
	[Country Of Birth] (data item 10) <> [Country Of Birth] in system reference table, or
	is blank
THEN
	ACCEPT submitted record
	PRINT error message 4020: [Country Of Birth] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Country_of_Birth in codes.domain dc_field_name 'Country_Of_Birth' dc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4021: [Country Of Birth] of (1100, 1101, 1102, or 1199) NOT COMPATIBLE WITH [Funding Source] of (07, or 08)

Pseudocode

```
IF
	[Country Of Birth] (data item 10) = 1100, 1101, 1102, or 1199
AND
(
	[Funding Source] (data item 95) = 07 (Overseas-RHCA)
	OR
	[Funding Source] (data item 95) = 08 (Non-Medicare)
)
THEN
	ACCEPT submitted record
	PRINT error message 4021: [Country Of Birth] of (1100, 1101, 1102, or 1199) NOT
	COMPATIBLE WITH [Funding Source] of (07, or 08)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Country_of_Birth in ('1100', '1101', '1102', '1199') and
Funding_Source in ('07','08')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4022: [Country Of Birth] changed from/to (0001, >= 1000, or <= 9299) and (0000, 0002, 0003) since last admission record

Pseudocode

```
IF
(
	(
		[Country Of Birth] (data item 10) on previous admission record = 0001
		OR
		(
			[Country Of Birth] (data item 10) on previous admission record >= 1000
			OR
			[Country Of Birth] (data item 10) on previous admission record <= 9299
		)
	)
AND
	(
		[Country Of Birth] (data item 10) on current admission record = 0000
		OR
		[Country Of Birth] (data item 10) on current admission record = 0002
		OR
		[Country Of Birth] (data item 10) on current admission record = 0003
	)
)
OR
(
	(
		[Country Of Birth] (data item 10) on current admission record = 0001
		OR
		(
			[Country Of Birth] (data item 10) on current admission record >= 1000
			OR
			[Country Of Birth] (data item 10) on current admission record <= 9299
		)
	)
AND
	(
		[Country Of Birth] (data item 10) on previous admission record = 0000
		OR
		[Country Of Birth] (data item 10) on previous admission record = 0002
		OR
		[Country Of Birth] (data item 10) on previous admission record = 0003
	)
)
THEN
	ACCEPT submitted values
	PRINT error message 4022: [Country Of Birth] changed from/to (0001, >= 1000, or <=
	9299) and (0000, 0002, 0003) since last admission record
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid
    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_4022: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@country_of_birth + ' || '  + @separation_date + ' || ' + @separation_time + ' || ' +
@record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for latest previous record for same Hosp + MRN that changes COB
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
```

```
                                                    SELECT  MAX([SEP_DATETIME])
                                                    FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                    WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                    AND      [hosp_code] = @hospital_code
                                                    AND      [mrn] = @patient_unit_number
                                                    ) -- Separation datetime of latest episode
of care
    AND      @record_type = '2' -- New
    AND      LTRIM(RTRIM(IFA.COUNTRY_CODE)) <> LTRIM(RTRIM(@country_of_birth)) -- Logic of COB
changing
    AND      NOT(LTRIM(RTRIM(IFA.COUNTRY_CODE)) = '1100' AND LTRIM(RTRIM(@country_of_birth)) =
'1101')
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1

    -- Correction record... looking for latest previous record for same Hosp + MRN that
changes COB but not record being updated
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                    SELECT  MAX([SEP_DATETIME])
                                                    FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                    WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                    AND      [hosp_code] = @hospital_code
                                                    AND      [mrn] = @patient_unit_number
                                                    AND      [SEP_DATETIME] <> DATEADD(MI,
CONVERT(INT,SUBSTRING(@separation_time, 3, 2)), DATEADD(HH,
CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME, SUBSTRING(@separation_date,
1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' + SUBSTRING(@separation_date, 5, 4)))) -
- Looking at other records than one being corrected
                                                    ) -- Separation datetime of latest episode
of care but not record being updated
    --AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3,
2)), DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected,
NOTE: logically not required as already excluded by max separation date criteria
    AND      @record_type = '3' -- Correction
    AND      LTRIM(RTRIM(IFA.COUNTRY_CODE)) <> LTRIM(RTRIM(@country_of_birth)) -- Logic of COB
changing
    AND      NOT(LTRIM(RTRIM(IFA.COUNTRY_CODE)) = '1100' AND LTRIM(RTRIM(@country_of_birth)) =
'1101')
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4030: [Source of Referral] not (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, E, L, P, R, V, or X)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> 0 (Admit from leave)
        AND
        [Source Of Referral] (data item 16) <> 1 (Other private medical practice: Excluding
        psychiatrist)
        AND
        [Source Of Referral] (data item 16) <> 2 (Residential aged care facility)
        AND
        [Source Of Referral] (data item 16) <> 3 (Community health service)
        AND
        [Source Of Referral] (data item 16) <> 4 (Inter-Hospital transfer)
        AND
        [Source Of Referral] (data item 16) <> 5 (Outpatient department)
        AND
        [Source Of Referral] (data item 16) <> 6 (Causality / Emergency)
        AND
        [Source Of Referral] (data item 16) <> 7 (Contracted service)
        AND
        [Source Of Referral] (data item 16) <> 8 (Other)
        AND
        [Source Of Referral] (data item 16) <> 9 (Unknown)
        AND
        [Source Of Referral] (data item 16) <> A (Administrative admission)
        AND
        [Source Of Referral] (data item 16) <> E (End of quarter reporting)
        AND
        [Source Of Referral] (data item 16) <> L (Law enforcement agency)
        AND
        [Source Of Referral] (data item 16) <> P (Private psychiatric practice)
        AND
        [Source Of Referral] (data item 16) <> R (Residential mental health service)
        AND
        [Source Of Referral] (data item 16) <> V (Virtual Care service)
        AND
        [Source Of Referral] (data item 16) <> X (Retrieval)
)
THEN
        ACCEPT submitted record
        PRINT error message 4030: [Source of Referral] not (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A,
        E, L, P, R, V, or X)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      ISNULL(@source_of_referral, '') NOT BETWEEN '0' AND '9'
      AND
      ISNULL(@source_of_referral, '') NOT IN ('A', 'E', 'X', 'L', 'P', 'R', 'V', 'X')
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated May 2023 to include new code “V” for Virtual Care Services.

Result

None.

Action

None.

4035: [Hospital Number] of (0001-0050) and not (0300), and [Episode Of Care] of (7) REQUIRES [Additional Diagnosis] of (I698, Z479, or Z878)

Pseudocode

```
IF
(
	(
		[Hospital Number] (data item 1) >= 0001
		AND
		[Hospital Number] (data item 1) <= 0500
		AND
		[Hospital Number] (data item 1) <> 0300
	)
AND
	[Episode Of Care] (data item 51) = 4 (Rehabilitation)
AND
	(
		[Additional Diagnosis] (data item 46_001-46_099) <> I698
		AND
		[Additional Diagnosis] (data item 46_001-46_099) <> Z479
		AND
		[Additional Diagnosis] (data item 46_001-46_099) <> Z878
	)
)
THEN
	ACCEPT submitted values
	PRINT error message 4035: [Hospital Number] of (0001-0050) and not (0300), and
	[Episode Of Care] of (7) REQUIRES [Additional Diagnosis] of (I698, Z479, or Z878)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInvalid INT ;
   SELECT @IsInvalid = CASE
   WHEN @Hospital_Code between '0001' and '0500'
      and @Hospital_Code <> '0300'
      and @Episode_Of_Care = '4'
      AND
dbo.ContainsStrings('|I698|Z479|Z878|',rtrim(ltrim(isnull(@additional_diagnosis,'')))=0
      ---and rtrim(ltrim(isnull(@additional_diagnosis,''))) not in ('I698','Z479','Z878')
/*      and (@additional_diagnosis not like '%I698%'
         and @additional_diagnosis not like '%Z479%'
         and @additional_diagnosis not like '%Z878%')*/

      THEN 1
      ELSE 0
   END

RETURN @IsInvalid
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4035A: [Hospital Number] of (0001-0050) and not (0300), and [Episode Of Care] of (4), and [Additional Diagnosis] of (Z509) REQUIRES [Additional Diagnosis] of (I698, Z479, or Z878)

Pseudocode

```
IF
(
	[Additional Diagnosis] (data item 46_001-46_099) = Z509
AND
	[Additional Diagnosis] (data item 46_001-46_099) <> I698, Z479, or Z878
AND
	(
		[Hospital Number] (data item 1) >= 0001
		AND
		[Hospital Number] (data item 1) <= 0500
		AND
		[Hospital Number] (data item 1) <> 0300
	)
AND
	[Episode Of Care] (data item 51) = 7 (Hospital at home / Rehab at home)
)
THEN
	ACCEPT submitted values
	PRINT error message 4035A: [Hospital Number] of (0001-0050) and not (0300), and
	[Episode Of Care] of (4), and [Additional Diagnosis] of (Z509) REQUIRES [Additional
	Diagnosis] of (I698, Z479, or Z878)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid    SMALLINT = 0
    SELECT  @IsInValid = CASE
                      WHEN (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'Z509') IS NOT NULL
                      AND (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE (val
IN ('I698','Z479','Z878') AND Id = 1)) IS NULL
                      AND (@hospital_code BETWEEN '0001' AND '0500' AND @hospital_code !=
'0300')
                      AND @episode_of_care =  '7'
                      AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                      AND REPLACE(@separation_date,'-','') >= '20160701'
                    THEN 1
                        ELSE 0
                         END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4036: [Episode Of Care] of (4) or (K) REQUIRES [Additional Diagnosis] of (Z509)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 4 (Rehabilitation) or K (Mental health:
        Rehabilitation)
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z509
THEN
        ACCEPT submitted values
        PRINT error message 4036: [Episode Of Care] of (4) or (K) REQUIRES [Additional
        Diagnosis] of (Z509)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid    SMALLINT = 0
   SELECT  @IsInValid = CASE
                     WHEN @episode_of_care = '4' or 'K'
                     AND (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'Z509') IS NULL
                     AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','')),'',0)=1
                     AND REPLACE(@separation_date,'-','') >= '20160701'
                   THEN 1
                        ELSE 0
                         END ;
    RETURN  @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated 1 July 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4040: [Principal Diagnosis] or [Additional Diagnosis] of (Z511 or Z2921) REQUIRES [Additional Diagnosis] of (C000-D489)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z511 or Z2921
OR
        [Additional Diagnosis] (data item 46 001-46_099] = Z511 or Z2921
)
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> C000-D489
THEN
        ACCEPT submitted values
        PRINT error message 4040: [Principal Diagnosis] or [Additional Diagnosis] of (Z511 or
        Z2921) REQUIRES [Additional Diagnosis] of (C000-D489)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Adding [Additional Diagnosis].

Update data quality check

Updated 1 July 2022

Result

Action

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4041: [Principal Diagnosis] or [Additional Diagnosis] CONTAINS (Z01.9 or Z41.9)

```
Pseudocode
IF
        [Principal Diagnosis] (data item 45) = Z01.9 or Z41.9
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = Z01.9 or Z41.9
THEN
        ACCEPT submitted record
        PRINT error message 4041: [Principal Diagnosis] or [Additional Diagnosis] CONTAINS
(Z01.9 or Z41.9)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Creating [Additional Diagnosis].

Update data quality check

Created 31 March 2024

Result

Action

4045: [Episode Of Care] of (4) REQUIRES [Principal Diagnosis] of (Z500-Z501, or Z504-Z509)

Pseudocode

```
IF
       [Episode Of Care] (data item 51) = 4 (Rehabilitation)
AND
       [Principal Diagnosis] (data item 45) <> Z500-Z501, or Z504-Z509

THEN
       ACCEPT submitted values
       PRINT error message 4045: [Episode Of Care] of (4) REQUIRES [Principal Diagnosis] of
       (Z500-Z501, or Z504-Z509)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Episode_Of_Care =    '4' and
(rtrim(principal_diagnosis) not in    ('Z500','Z501') and
rtrim(principal_diagnosis) not between    'Z504' and 'Z509' )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4046: [Additional Diagnosis] of (Z509) REQUIRES [Episode Of Care] of (4, 7, or K)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = Z509
AND
(
        [Episode Of Care] (data item 51) <> 4 (Rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> 7 (Hospital at home / Rehab at home)
        AND
        [Episode Of Care] (data item 51) <> K (Mental health: Rehabilitation)
)
AND
        THEN
        ACCEPT submitted values
        PRINT error message 4046: [Additional Diagnosis] of (Z509) REQUIRES [Episode Of Care]
        of (4, 7 or K)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid    SMALLINT = 0
   SELECT  @IsInValid = CASE
                      WHEN @episode_of_care NOT IN ('4','7','K')
                      AND (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'Z509') IS NOT NULL
                      AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                      AND REPLACE(@separation_date,'-','') >= '20160701'
                    THEN 1
                         ELSE 0
                          END ;
    RETURN  @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4051: [Episode Of Care] of (P) REQUIRES [Principal Diagnosis] of (Z5200-Z529)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = P (Posthumous organ procurement)
AND
        [Principal Diagnosis] (data item 45) <> Z5200-Z529
THEN
        ACCEPT submitted values
        PRINT error message 4051: [Episode Of Care] of (P) REQUIRES [Principal Diagnosis] of
        (Z5200-Z529)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid            SMALLINT = 0
    IF (
      @episode_of_care = 'P' AND @principal_diagnosis NOT LIKE 'Z52%'
      AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
      AND REPLACE(@separation_date,'-','') >= '20160701'
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4055: [Episode Of Care] of (2) REQUIRES [Principal Diagnosis] of (Z750-Z759) for [Hospital Number] of (< 4000)

Pseudocode

```
IF
        [Hospital Number] (data item 01) < 4000
AND
        [Episode Of Care] (data item 51) = 2 (Maintenance care)
AND
        [Principal Diagnosis] (data item 45) <> Z750-Z759
THEN
        ACCEPT submitted values
        PRINT error message 4055: [Episode Of Care] of (2) REQUIRES [Principal Diagnosis] of
        (Z750-Z759) for [Hospital Number] of (< 4000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                             WHEN
                             (
                                 @hospital_code < 4000
                                 AND @episode_of_care = '2'
                                 AND @principal_diagnosis NOT BETWEEN 'Z750' AND 'Z759'
                             )
                             THEN 1
                             ELSE 0
                         END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Increased range of Hospital codes.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4056: [Principal Diagnosis] of (Z750-Z759) REQUIRES [Episode Of Care] of (2) for [Hospital Number] in (< 4000)

Pseudocode

```
IF
        [Hospital Number] (data item 01) < 4000
AND
        [Principal Diagnosis] (data item 45) = Z750-Z759
AND
        [Episode Of Care] (data item 51) <> 2 (Maintenance care)
THEN
        ACCEPT submitted values
        PRINT error message 4056: [Principal Diagnosis] of (Z750-Z759) REQUIRES [Episode Of
        Care] of (2) for [Hospital Number] in (< 4000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    --IF  @hospital_code BETWEEN '0003' AND '0300'
    IF  @hospital_code < 4000
    AND @principal_diagnosis BETWEEN 'Z750' AND 'Z759'
    AND ISNULL(@episode_of_care, '') <> '2'
   -- AND ISDATE(@separation_date) = 1
   -- AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01'
   AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
   AND REPLACE(@separation_date,'-','') >= '20140701'
    BEGIN
        SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Increased range of Hospital codes.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4057: Duplicate RUG-ADL code from [Principal Diagnosis], [Additional Diagnosis], [External Cause], [Place Of Occurrence], and/or [Activity When Injured] DELETES RUG-ADL code

Pseudocode

```
IF
       RUG-ADL code is recorded twice in either:
       [Principal Diagnosis] (data item 45)
AND/OR
       [Additional Diagnosis] (data item 46_001-46_099)
AND/OR
       [External Cause] (data item 47)
AND/OR
       [Place Of Occurrence] (data item 94)
AND/OR
       [Activity When Injured] (data item 93)
THEN
       DELETE second occurrence of the code
       PRINT error message: 4057: Duplicate RUG-ADL code from [Principal Diagnosis],
       [Additional Diagnosis], [External Cause], [Place Of Occurrence], and/or [Activity When
       Injured] DELETES RUG-ADL code
```

Status

Does not exist.

Implementation

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4058: RUG-ADL in [Additional Diagnosis] not in system reference table

Pseudocode

```
IF
       [Additional Diagnosis] (data item 46_001-46_099) = [RUG-ADL] in system reference table
THEN
       ACCEPT submitted values
       PRINT error message: 4058: RUG-ADL in [Additional Diagnosis] not in system reference
       table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid      SMALLINT = 0
   DECLARE @InInValidRUG   VARCHAR(5)   ;
---declare @s varchar(1000)
---convert NULLs so we can display to log if we feel like
---set
@s=ISNULL(@episode_of_care,'NULL')+'|'+ISNULL(@source_of_referral,'NULL')+'|'+ISNULL(@RUG_ADL,
'NULL')+'|'+ISNULL(@separation_date,'NULL')
---exec xp_logevent 50001,@s
   WITH InValidRUGcte AS
      (
      SELECT val
         FROM [HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1,
26)
         --FROM [ISAAC-
II_TRANSFORM].[dbo].Transform_Validate_2_DelimitedFields(@additional_diagnosis,
@additional_diagnosis_condition_onset_flag,',',',',1,1)
      WHERE val like UPPER('[0-9][0-9][0-9][0-9][A-Z]')
         AND LEN(val) = 5
         AND UPPER(val) NOT IN (SELECT [RUG-ADL] FROM [ISAAC-
II_Transform].[Ref].[tbl_RUG_ADL])
      )
   SELECT TOP 1 @InInValidRUG = val FROM InValidRUGcte

    IF  (@InInValidRUG IS NOT NULL
         AND [HEALTHVALIDATOR].[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
         AND REPLACE(@separation_date,'-','') >= '20150701')
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4060: [Additional Diagnosis] of (Z500-Z501, or Z504-Z509) NOT COMPATIBLE WITH [Principal Diagnosis] of (Z540-Z549)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = Z500-Z501, or Z504-Z509
AND

        [Principal Diagnosis] (data item 45) = Z540-Z549

THEN
        ACCEPT submitted values
        PRINT error message 4060: [Additional Diagnosis] of (Z500-Z501, or Z504-Z509) NOT
        COMPATIBLE WITH [Principal Diagnosis] of (Z540-Z549)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
rtrim(principal_diagnosis) between 'Z540' and 'Z549' and
dbo.ContainsStrings('|Z500|Z501|Z50[4-9]|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4061: [Episode Of Care] of (3) REQUIRES [Additional Diagnosis] of (Z515)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 3 (Palliative care)
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z515
THEN
        ACCEPT submitted values
        PRINT error message 4061: [Episode Of Care] of (3) REQUIRES [Additional Diagnosis] of
        (Z515)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additionalDiagnosisCTE AS
    (
        SELECT  DiagnosisCode   = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN    @episode_of_care = '3'
                                    AND NOT EXISTS
                                    (
                                        SELECT TOP (1) 1
                                        FROM additionalDiagnosisCTE
                                        WHERE   DiagnosisCode = 'Z515'
                                    )

                                    --AND ISDATE(@separation_date) = 1
                                    --AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01'
-- Additional condition so that only newer records are flagged.

                                    AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
                                    AND REPLACE(@separation_date,'-','') >= '20140701'

                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4066: [Principal Diagnosis] or [Additional Diagnosis] of (Z511 or Z2921) INVALID WITH [Admission Date] <> [Separation Date]

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z511 or Z2921
OR
        [Additional Diagnosis] (data item 46_001-46_099) = Z511 or Z2921
)
AND
        [Admission Date] (data item 21) <> [Separation Date] (data item 43)
THEN
        ACCEPT submitted values
        PRINT error message 4066: [Principal Diagnosis] or [Additional Diagnosis] of (Z511 or
        Z2921) INVALID WITH [Admission Date] <> [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(rtrim(principal_diagnosis) in ('Z511','Z2921') or
dbo.ContainsStrings('|Z511|Z2921|',additional_diagnosis) > 0 ) and
Admission_Date <> separation_date
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4070: [Principal Diagnosis] or [Additional Diagnosis] of (G300-G309) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (F0000-F0091)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = G300-G309
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> F0000-F0091
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = G300-G309
        AND
        [Principal Diagnosis] (data item 45) <> F0000-F0091
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = G300-G309
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> F0000-F0091
)
THEN
        ACCEPT submitted values
        PRINT error message 4070: [Principal Diagnosis] or [Additional Diagnosis] of (G300-
        G309) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (F0000-F0091)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE (dx) AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT RTRIM(LTRIM(@principal_diagnosis))
    )

    SELECT @IsInValid =
            CASE
                WHEN
                    EXISTS (
                            SELECT TOP 1 dx
                            FROM all_diagnosisCTE
                            WHERE dx BETWEEN 'G300' AND 'G309'
                        )

                AND
                    NOT EXISTS (
                                SELECT TOP 1 dx
                                FROM all_diagnosisCTE
                                WHERE dx BETWEEN 'F0000' AND 'F0091'
                            )

                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)
= 1
                AND REPLACE(@separation_date,'-','') >= '20170701'

                THEN 1
                ELSE 0
            END

    RETURN @IsInValid ;
```

```
END ;
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4075: [Additional Diagnosis] of (Z511 or Z2921) and not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date]

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z511 or Z2921
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
)
AND
        [Admission Date] (data item 21) = [Separation Date] (data item 43)
THEN
        ACCEPT submitted values
        PRINT error message 4075: [Additional Diagnosis] of (Z511 or Z2921) and not (Z530-
        Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Update data quality check

Updated 1 July 2022

Result

Action

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4080: [Principal Diagnosis] or [Additional Diagnosis] of (F0000-F0091) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (G300-G309)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = F0000-F0091
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> G300-G309
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F0000-F0091
        AND
        [Principal Diagnosis] (data item 45) <> G300-G309
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F0000-F0091
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> G300-G309
)
THEN
        ACCEPT submitted values
        PRINT error message 4080: [Principal Diagnosis] or [Additional Diagnosis] of (F0000-
        F0091) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (G300-G309)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE (dx) AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT RTRIM(LTRIM(@principal_diagnosis))
    )

    SELECT @IsInValid =
            CASE
                WHEN
                    EXISTS (
                            SELECT TOP 1 dx
                            FROM all_diagnosisCTE
                            WHERE dx BETWEEN 'F0000' AND 'F0091'
                        )

                AND
                    NOT EXISTS (
                                SELECT TOP 1 dx
                                FROM all_diagnosisCTE
                                WHERE dx BETWEEN 'G300' AND 'G309'
                            )

                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)
= 1
                AND REPLACE(@separation_date,'-','') >= '20170701'

                THEN 1
                ELSE 0
            END

    RETURN @IsInValid ;
```

```
END ;
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4081: [Sex] not (1, 2, or 3)

Pseudocode

```
IF
        (
        [Sex] (data item 08) <> 1 (Male)
        AND
        [Sex] (data item 08) <> 2 (Female)
        AND
        [Sex] (data item 08) <> 3 (Indeterminate)
        )
THEN
        ACCEPT submitted record
        PRINT error message 4081: [Sex] not (1, 2, or 3)
```

Status

Active. Implemented 1 July 2022

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

Replaces data quality check 2160.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4085: [Principal Diagnosis] of (Z510) NOT COMPATIBLE WITH [Admission Date] <> [Separation Date]

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z510
AND
        [Admission Date] (data item 21) <> [Separation Date] (data item 43)
THEN
        ACCEPT submitted values
        PRINT error message 4085: [Principal Diagnosis] of (Z510) NOT COMPATIBLE WITH
        [Admission Date] <> [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Principal_Diagnosis = 'Z510' and
Admission_Date <> separation_date
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4086: [Additional Diagnosis] of (U060) NOT COMPATIBLE WITH [Additional Diagnosis] of (B342 or B972)

Pseudocode

```
IF
	[Additional Diagnosis] (data item 46) = U060
AND

IF
	[Additional Diagnosis] (data item 46) = B342 or B972

THEN
	ACCEPT submitted values
	PRINT error message 4086: [Additional Diagnosis] of (U060) NOT COMPATIBLE WITH
	[Additional diagnosis] of (B342 or B972)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
DECLARE @IsInValid  SMALLINT = 0 ;
SELECT    @IsInValid =  CASE
WHEN
(SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val =
'U060') IS NOT NULL
AND
(SELECT TOP 1 val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val
IN ('B342','B972')) IS NOT NULL
AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
AND REPLACE(@separation_date,'-','') >= '20190701'

THEN 1
ELSE 0
END ;
RETURN @IsInValid ;
```

Issue

None.

Update data quality check

Deactivated 1 July 2022.

Result

The pseudocode for this data quality check has been changed.

The error message for this data quality check has been changed.

Action

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4087: [Additional Diagnosis] of (U0770-U0774) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (T800-T809)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46) = U0770-U0774
AND
        (
        [Principal Diagnosis] (data item 45) = T800-T809
        OR
        [Additional Diagnosis] (data item 46) = T800-T809
        )
THEN
        ACCEPT submitted record
        PRINT error message 4087: [Additional Diagnosis] of (U0770-U0774) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (T800-T809)
```

Status

Active.

Implementation

None

Issue

None.

Update data quality check

Updated 1 July 2022 to increase Additional diagnosis range to U0770-U0774, was previously data quality check 2078.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4090: [Procedure] from (4178900, or 4178901) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (J030-J039)

Pseudocode

```
IF
(
        [Procedure] (data item 49_001-49_099) = 4178900, or 4178901
        AND
        [Principal Diagnosis] (data item 45) = J030-J039
)
OR
(
        [Procedure] (data item 49_001-49_099) = 4178900, or 4178901
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = J030-J039
)
THEN
        ACCEPT submitted values
        PRINT error message 4090: [Procedure] from (4178900, or 4178901) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (J030-J039)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
((principal_procedure in ('4178900','4178901')) or
(dbo.ContainsStrings('|4178900|4178901|',additional_procedure) > 0 )) and
((principal_diagnosis between 'J030' and 'J039' ) or
(dbo.ContainsStrings('|J03[0-9]|',additional_diagnosis) > 0 ))
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4091: [Principal Diagnosis] or [Additional Diagnosis] of (J450-J459, or J46) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] (J450-J459, or J46)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = J46
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = J450-J459
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = J46
        AND
        [Principal Diagnosis] (data item 45) = J450-J459
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = J46
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = J450-J459
)
THEN
        ACCEPT submitted values
        PRINT error message 4091: [Principal Diagnosis] or [Additional Diagnosis] of (J450-
        J459, or J46) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] (J450-
        J459, or J46)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'J46' and
dbo.ContainsStrings('|J450|J451|J458|J459|',additional_diagnosis) > 0 ) or
(principal_diagnosis in ('J450','J451','J458','J459') and
dbo.ContainsStrings('|J46|',additional_diagnosis) > 0 ) or
(dbo.ContainsStrings('|J450|J451|J458|J459|',additional_diagnosis) > 0 and
dbo.ContainsStrings('|J46|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4095: [Additional Diagnosis] of (Z510) and not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date]

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z510
AND
        (Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
)
AND
        [Admission Date] (data item 21) = [Separation Date] (data item 43)
THEN
        ACCEPT submitted values
        PRINT error message 4095: [Additional Diagnosis] of (Z510) and not (Z530-Z539) SHOULD
        BE [Principal Diagnosis] when [Admission Date] = [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Adding Z530-Z539.

Update data quality check

Updated [Additional Diagnosis] to exclude Z530 to Z539.

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4105: [Additional Diagnosis] of (Z491, or Z492) and not (Z530-Z539) SHOULD BE [Principal Diagnosis] when Length of stay = 1 day

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z491, or Z492
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
)
AND
        Length of stay = 1 day
THEN
        ACCEPT submitted values
        PRINT error message 4105: [Additional Diagnosis] of (Z491, or Z492) and not (Z530-
        Z539) SHOULD BE [Principal Diagnosis] when Length of stay = 1 day
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Adding Z530-Z539.

Update data quality check

Updated [Additional Diagnosis] to exclude Z530 to Z539.

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4110: [Additional Diagnosis] of (A090-A099, or K520-K529) SHOULD BE [Principal Diagnosis] with [Additional Diagnosis] of (E86)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = E86
AND
        [Additional Diagnosis] (data item 46_001-46_099) = A090-A099, or K520-K529
THEN
        ACCEPT submitted values
        PRINT error message 4110: [Additional Diagnosis] of (A090-A099, or K520-K529) SHOULD
        BE [Principal Diagnosis] with [Additional Diagnosis] of (E86)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis = 'E86' and (
dbo.ContainsStrings('|A09[0-9]|',additional_diagnosis) > 0 or
dbo.ContainsStrings('|K52[0-9]|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4115: [Principal Diagnosis] of (Z491, or Z492) NOT COMPATIBLE WITH Length of stay of (> 1 day)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z491, or Z492
AND
        Length of stay > 1 day
THEN
        ACCEPT submitted values
        PRINT error message 4115: [Principal Diagnosis] of (Z491, or Z492) NOT COMPATIBLE WITH
        Length of stay of (> 1 day)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis IN ('Z491','Z492') and
length_of_stay_in_days > 1
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4121: [Type Of Usual Accommodation] of (C) NOT COMPATIBLE WITH [Nature Of Separation] of (3) UNLESS patient moving to respite care

Pseudocode

```
IF

        [Type Of Usual Accommodation] (data item 90) = C (Residential aged care facility)
AND
        [Nature Of Separation] (data item 42) = 3 (Residential aged care facility)
THEN
        ACCEPT submitted value
        PRINT error message 4121: [Type Of Usual Accommodation] of (C) NOT COMPATIBLE WITH
        [Nature Of Separation] of (3) UNLESS patient moving to respite care
```

Status

Active.

Implementation

```
BEGIN
    DECLARE @IsInvalid SMALLINT = 0 ;

    IF  @type_of_usual_accommodation = 'C'
        AND @nature_of_separation = '3'
    BEGIN
        SET @IsInvalid = 1 ;
    END ;

    RETURN @IsInvalid ;

END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4125: [Principal Diagnosis] or [Additional Diagnosis] of (Z491, or Z492) REQUIRES [Additional Diagnosis] of (Z530-Z539) or [Procedure] from (Block 1060, or Block 1061)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z491, or Z492
        AND
        (
                [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
                AND
                [Procedure] (data item 49_001-49_099) <> Block 1060-1061
        )
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z491, Z492
        AND
        (
                [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
                AND
                [Procedure] (data item 49_001-49_099) <> Block 1060-1061
        )
)
THEN
        ACCEPT submitted values
        PRINT error message 4125: [Principal Diagnosis] or [Additional Diagnosis] of (Z491, or
        Z492) REQUIRES [Additional Diagnosis] of (Z530-Z539) or [Procedure] from (Block 1060,
        or Block 1061)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid INT = 0 ;

    WITH All_procedures AS
    (
        SELECT  icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
        UNION
        --SELECT d.icd_code
        SELECT rtrim(ltrim(d.icd_code))
        FROM (VALUES(@principal_procedure)) d(icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )

    SELECT @IsInValid = CASE
                            WHEN
                            (@Principal_Diagnosis in ('Z491','Z492') or
dbo.ContainsStrings('|Z491|Z492|',@additional_diagnosis) > 0 )
                            AND dbo.ContainsStrings('|Z53[0-9]|',@additional_diagnosis) = 0

                            AND NOT EXISTS
                                 (  SELECT TOP (1) 1
                                    FROM All_procedures
                                    --WHERE icd_Code NOT IN (SELECT icd_code FROM
vw_Codes_ICD10AM WHERE icd_proc_block in ('1060','1061'))
                                    WHERE icd_Code IN
('1310000','1310001','1310002','1310003','1310004','1310005','1310006','1310007','1310008')
                                 )

                            THEN 1
                            ELSE 0
                        END
```

```
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4130: [Principal Diagnosis] or [Additional Diagnosis] of (Z490-Z492) DOES NOT REQUIRE [Additional Diagnosis] of (Z992)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z490-Z492
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z992
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z490-Z492
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z992
)
THEN
        ACCEPT submitted values
        PRINT error message 4130: [Principal Diagnosis] or [Additional Diagnosis] of (Z490-
        Z499) DOES NOT REQUIRE [Additional Diagnosis] of (Z992)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                               @principal_diagnosis IN ('Z490','Z491','Z492')
                               AND dbo.ContainsStrings('|Z992|',@additional_diagnosis) > 0
                               )
                               OR
                               (
                               dbo.ContainsStrings('|Z992|',@additional_diagnosis) > 0
                               AND
dbo.ContainsStrings('|Z490|Z491|Z492|',@additional_diagnosis) > 0
                               )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4140: [Principal Diagnosis] or [Additional Diagnosis] of (S0600, or S099) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (S0601-S0604)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = S0600, or S099
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = S0601-S0604
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = S0600, or S099
        OR
        [Principal Diagnosis] (data item 45) = S0601-S0604
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = S0600, or S099
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = S0601-S0604
)
THEN
        ACCEPT submitted values
        PRINT error message 4140: [Principal Diagnosis] or [Additional Diagnosis] of (S0600,
        or S099) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (S0601-
        S0604)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis IN ('S0600','S099') or
dbo.ContainsStrings('|S0600|S099|',additional_diagnosis) > 0 ) and
(principal_diagnosis IN ('S0601','S0602','S0603','S0604') or
dbo.ContainsStrings('|S0601|S0602|S0603|S0604|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4145: [Principal Diagnosis] or [Additional Diagnosis] of (C770-C799) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (C000-C768, or C800-C809)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = C770-C799
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> C000-C768, or C800-C809
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = C770-C799
        AND
        [Principal Diagnosis] (data item 45) <> C000-C768, or C800-C809
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = C770-C799
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> C000-C768, or C800-C809
)
THEN
        ACCEPT submitted values
        PRINT error message 4145: [Principal Diagnosis] or [Additional Diagnosis] of (C770-
        C799) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (C000-C768, or C800-
        C809)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'C770' and 'C799' or
dbo.ContainsStrings('|C7[7-9][0-9]|',additional_diagnosis) > 0 or
dbo.ContainsStrings('|C7[8-9]|',additional_diagnosis) > 0 ) and
(principal_diagnosis not between 'C000' and 'C768' and
principal_diagnosis not between 'C800' and 'C809' and
dbo.ContainsStrings('|C[0-7][0-6][0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C1[0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C2[0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C3[0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C4[0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C5[0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C6[0-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C7[0-6]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C0[1-9]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|C800|C801|C802|C803|C804|C805|C806|C807|C808|C809|',additional_diagnosis
) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4146: [Principal Diagnosis] or [Additional Diagnosis] of (C770-C809) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (C810-C8891)

Pseudocode

```
IF
(
	[Principal Diagnosis] (data item 45) = C770-C809
	OR
	[Additional Diagnosis] (data item 46_001-46_099) = C810-C8891
)
OR
(
	[Additional Diagnosis] (data item 46_001-46_099) = C770-C809
	OR
	[Principal Diagnosis] (data item 45) = C810-C8891
)
OR
(
	[Additional Diagnosis] (data item 46_001-46_099) = C770-C809
	OR
	[Additional Diagnosis] (data item 46_001-46_099) = C810-C8891
)
THEN
	ACCEPT submitted values
	PRINT error message 4146: [Principal Diagnosis] or [Additional Diagnosis] of (C770-
	C809) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (C810-
	C8891)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (

                               (
                                   dbo.ContainsStrings('|C[8-8][1-8]%|',@principal_diagnosis)
> 0
                                   OR
                                   dbo.ContainsStrings('|C[8-8][1-
8]%|',@additional_diagnosis) > 0
                               )

                               AND
                               (
                                   (
                                       dbo.ContainsStrings('|C77[0-9]|',@principal_diagnosis)
> 0
                                       OR
                                       dbo.ContainsStrings('|C80[0-9]|',@principal_diagnosis)
> 0
                                   )
                                   OR
                                   (
                                       dbo.ContainsStrings('|C77[0-
9]|',@additional_diagnosis) > 0
                                       OR
                                       dbo.ContainsStrings('|C80[0-
9]|',@additional_diagnosis) > 0
                                   )
                               )

                           )

                           THEN 1
```

```
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4160: Length of Stay of (> 92 days), and [Admission Type] in (2, or 3)

Pseudocode

```
IF
	Length of Stay > 92 days
AND
	(
		[Admission Type] (data item 20) = 2 (Long stay: Acute)
		OR
		[Admission Type] (data item 20) = 3 (Long stay: Non-acute care)
	)
THEN
	ACCEPT submitted record
	PRINT error message 4160: Length of Stay of (> 92 days), and [Admission Type] in (2,
	or 3)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Length_of_Stay_in_Days > 92 and
admission_type in ('2','3')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4165: [Hospital Number] of (< 4000), [Episode Of Care] of (5, or 6), [Date Of Birth] = [Admission Date], and [Source Of Referral] not (4, X) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (Z380-Z388)

Pseudocode

```
IF
(       [Hospital Number] (data item 01) < 4000
        AND
        (
                [Episode Of Care] (data item 51) = 5 (Unqualified newborn)
                OR
                [Episode Of Care] (data item 51) = 6 (Qualified newborn)
        )
        AND
        [Date Of Birth] (data item 9) = [Admission Date] (data item 21)
        AND
        (
                [Source Of Referral] (data item 16) <> 4 (Inter-Hospital transfer)
                AND
                [Source Of Referral] (data item 16) <> X (Retrieval)
        )
        AND
        (
                [Principal Diagnosis] (data item 45) <> Z380-Z388
                AND
                [Additional Diagnosis] (data item 46_001-46_099) <> Z380-Z388)
        )
)
THEN
        ACCEPT submitted values
        PRINT error message 4165: [Hospital Number] of (< 4000), [Episode Of Care] of (5, or
        6), [Date Of Birth] = [Admission Date], and [Source Of Referral] not (4, X) REQUIRES
        [Principal Diagnosis] or [Additional Diagnosis] of (Z380-Z388)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code < 4000 and
episode_of_care in ('5','6') and
date_of_birth = admission_date and
source_of_referral not in ('4','X') and
(principal_diagnosis not between 'Z380' and 'Z388' and
dbo.ContainsStrings('|Z38[0-8]|',additional_diagnosis) = 0 )
```

Issue

None.

Update data quality check

Increased range of Hospital codes.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4170: Length of stay of (> 1 day), and [Hospital Number] in system reference table where [Day Hospital] of (1)

Pseudocode

```
IF
	[Day Hospital] in system reference table for [Hospital Number] = 1 (Day hospital)
AND
	Length of stay > 1 day
THEN
	ACCEPT submitted values
	PRINT error message 4170: Length of stay of (> 1 day), and [Hospital Number] in system
	reference table where [Day Hospital] of (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Length_of_Stay_in_Days > 1 and
Hospital_Code in codes.hospitals hc_DayHospital 'True' hc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4175: Length of stay of (> 9999 days)

Pseudocode

```
IF
	Length of Stay > 9999 days
THEN
	ACCEPT submitted values
	PRINT error message 4175: Length of stay of (> 9999 days)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Length_of_Stay_in_Days >= 9999 and
nullif(Admission_time,'') is not null
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4180: Age at admission of (> 100 years)

Pseudocode

```
IF
	Age at admission > 100 years
AND
	[Date Of Birth Accuracy Flag] (data item 91) = 1 (Accurate)
THEN
	ACCEPT submitted record
	PRINT error message 4180: Age at admission of (> 100 years)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    SELECT  @IsInValid = CASE
                             WHEN    [dbo].[IsYYYYMMDD](@date_of_birth, NULL, 0) = 1
                                 AND ISDATE(@admission_date_time) = 1
                                 AND DATEDIFF(YEAR, @date_of_birth, CONVERT(DATETIME,
@admission_date_time)) > 100
                                 AND @date_of_birth_accuracy_flag = '1'
                             THEN 1
                             ELSE 0
                         END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4185: [Principal Diagnosis] or [Additional Diagnosis] of (O000-O079, O200, O470, O600-O603, or O364) REQUIRES [Additional Diagnosis] of (O090-O099)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O000-O079, O200, O364, O470, or O600-O603
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O090-O099
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O000-O079, O200, O364, O470, or
        O600-O603
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O090-O099
)
THEN
        ACCEPT submitted values
        PRINT error message 4185: [Principal Diagnosis] or [Additional Diagnosis] of (O000-
        O079, O200, O470, O600-O603, or O364) REQUIRES [Additional Diagnosis] of (O090-O099)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   (
                                   @principal_diagnosis BETWEEN 'O000' AND 'O079'
                                   OR @principal_diagnosis IN
('O200','O470','O600','O601','O602','O603','O364')
                                   )
                                OR
                                   (
                                   dbo.ContainsStrings('|O0[0-7][0-
9]|',@additional_diagnosis) > 0
                                   OR
(dbo.ContainsStrings('|O200|O470|O600|O601|O602|O603|O364|',@additional_diagnosis) > 0)
                                   )
                               )
                               AND (
                                   dbo.ContainsStrings('|O09[0-9]|',@additional_diagnosis) =
0
                                   )
                           )

                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4190: [Marital Status] not (1, 2, 3, 4, 5, or 9), and Age at admission of (>= 16 years)

Pseudocode

```
IF
(
        [Marital Status] (data item 12) <> 1 (Never married)
        AND
        [Marital Status] (data item 12) <> 2 (Married / De facto)
        AND
        [Marital Status] (data item 12) <> 3 (Widowed)
        AND
        [Marital Status] (data item 12) <> 4 (Divorced)
        AND
        [Marital Status] (data item 12) <> 5 (Separated)
        AND
        [Marital Status] (data item 12) <> 9 (Unknown / Not stated)
)
AND
        Age at admission >= 16 years
THEN
        ACCEPT submitted record
        PRINT error message 4190: [Marital Status] not (1, 2, 3, 4, 5, or 9), and Age at
        admission of (>= 16 years)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
( Marital_Status not in ('1','2','3','4','5','9') and
DATEDIFF(year, convert(date,date_of_birth,103),convert(date,admission_date,103)) >= 16 )
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4190A: [Marital Status] not (1, 2, 3, 4, 5, or 9), and Age at admission of (< 16 years)

Pseudocode

```
IF
(
        [Marital Status] (data item 12) <> 1 (Never married)
        AND
        [Marital Status] (data item 12) <> 2 (Married / De facto)
        AND
        [Marital Status] (data item 12) <> 3 (Widowed)
        AND
        [Marital Status] (data item 12) <> 4 (Divorced)
        AND
        [Marital Status] (data item 12) <> 5 (Separated)
        AND
        [Marital Status] (data item 12) <> 9 (Unknown / Not stated)
)
AND
        Age at admission < 16 years
THEN
        ACCEPT submitted record
        PRINT error message 4190A: [Marital Status] not (1, 2, 3, 4, 5, or 9), and Age at
        admission of (< 16 years)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(Marital_Status not in ('1','2','3','4','5','9') and
DATEDIFF(year, convert(date,date_of_birth,103),convert(date,admission_date,103)) < 16 )
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4195: [Additional Diagnosis] of (Z370-Z379) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z3900-Z392)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z379
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z3900-Z392
)
THEN
        ACCEPT submitted values
        PRINT error message 4195: [Additional Diagnosis] of (Z370-Z379) NOT COMPATIBLE WITH
        [Additional Diagnosis] of (Z3900-Z392)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.ContainsStrings('|Z37[0-9]%|',additional_diagnosis) > 0 and
dbo.ContainsStrings('|Z39[0-2]%|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4200: [Principal Diagnosis] of (Z312) REQUIRES [Procedure] from (Block 1297)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z312
AND
        [Procedure] (data item 49_001-49_099) <> Block 1297
THEN
        ACCEPT submitted values
        PRINT error message 4200: [Principal Diagnosis] of (Z312) REQUIRES [Procedure] from
        (Block 1297)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis = 'Z312' and
dbo.ValidateDelimitedField(additional_procedure,',',1,101) not in vw_Codes_ICD10AM
icd_proc_block '1297' icd_code and
principal_procedure not in vw_Codes_ICD10AM icd_proc_block '1297' icd_code )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4201: [Principal Diagnosis] of (Z310-Z313), and [Additional Diagnosis] not (Z530-Z539) REQUIRES [Procedure]

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z310-Z313
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
)
AND
        [Procedure] (data item 49_001-49_099) is blank
THEN
        ACCEPT submitted values
        PRINT error message 4201: [Principal Diagnosis] of (Z310-Z313), and [Additional
        Diagnosis] not (Z530-Z539) REQUIRES [Procedure]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_procedure is null  or
principal_procedure = '' ) and
(additional_procedure is null  or
additional_procedure = '' ) and
principal_diagnosis between 'Z310' and 'Z313' and
dbo.ContainsStrings('|Z530|Z531|Z532|Z533|Z534|Z535|Z536|Z537|Z538|Z539|',additional_diagnosis
) = 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4202: [Procedure] from (Block 1243) NOT COMPATIBLE WITH [Procedure] from (Block 1268, or Block 1269)

Pseudocode

```
IF
	[Procedure] (data item 49_001-49_099) = Block 1243
AND
(
	[Procedure] (data item 49_001-49_099) = Block 1268, or Block 1269
)
THEN
	ACCEPT submitted values
	PRINT error message 4202: [Procedure] from (Block 1243) NOT COMPATIBLE WITH
	[Procedure] from (Block 1268, or Block 1269)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0,
         @icdBLOCK_1243 VARCHAR(1000),
         @icdBLOCK_1268_1269 VARCHAR(1000)
   SELECT @icdBLOCK_1243 = REPLACE(REPLACE((SELECT icd_code FROM
[HealthValidator].[Codes].[ICD10AM] WHERE icd_proc_block = '1243' FOR XML
PATH),'<row><icd_code>','|'),'</icd_code></row>','') + '|'
   SELECT @icdBLOCK_1268_1269 = REPLACE(REPLACE((SELECT icd_code FROM
[HealthValidator].[Codes].[ICD10AM] WHERE icd_proc_block IN ('1268','1269') FOR XML
PATH),'<row><icd_code>','|'),'</icd_code></row>','') + '|'
    SELECT   @IsInValid = CASE
                          WHEN (LTRIM(RTRIM(@principal_procedure)) IN (SELECT icd_code FROM
[HealthValidator].[Codes].[ICD10AM] WHERE icd_proc_block = ('1243'))
                        OR dbo.ContainsStrings(@icdBLOCK_1243,@additional_procedure) > 0)
                        AND
                         (LTRIM(RTRIM(@principal_procedure)) IN (SELECT icd_code FROM
[HealthValidator].[Codes].[ICD10AM] WHERE icd_proc_block IN ('1268','1269'))
                        OR dbo.ContainsStrings(@icdBLOCK_1268_1269,@additional_procedure) > 0)
                        AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                        AND REPLACE(@separation_date,'-','') >= '20160701'
                            THEN 1
                            ELSE 0
                         END ;
    RETURN   @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4203: [Principal Diagnosis] of (Z5181), and [Additional Diagnosis] not (Z530-Z539) REQUIRES [Admission Date] = [Separation Date]

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z5181
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
AND
        [Admission Date] <> [Separation Date]
THEN
        ACCEPT submitted values
        PRINT error message 4203: [Principal Diagnosis] of (Z5181), and [Additional Diagnosis]
        not (Z530-Z539) REQUIRES [Admission Date] = [Separation Date]
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4204: [Additional Diagnosis] of (Z5181), and [Additional Diagnosis] not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] = [Separation Date]

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = Z5181
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z530-Z539
AND
        [Admission Date] = [Separation Date]
THEN
        ACCEPT submitted values
        PRINT error message 4204: [Additional Diagnosis] of (Z5181), and [Additional
        Diagnosis] not (Z530-Z539) SHOULD BE [Principal Diagnosis] when [Admission Date] =
        [Separation Date]
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy

4205: [Indigenous Status] of (1, 2, or 3) NOT COMPATIBLE WITH [Country Of Birth] of (<= 1100, >= 1199, and <> 1302)

Pseudocode

```
IF
(
	[Indigenous Status] (data item 13) = 1 (Aboriginal but not Torres Strait Islander
	origin)
	OR
	[Indigenous Status] (data item 13) = 2 (Torres Strait Islander but not Aboriginal
	origin)
	OR
	[Indigenous Status] (data item 13) = 3 (Both Aboriginal and Torres Strait Islander
	origin)
)
AND
(
	(
		[Country Of Birth] (data item 10) <= 1100
		OR
		[Country Of Birth] (data item 10) >= 1199
	)
	AND
	[Country Of Birth] (data item 10) <> 1302
)
THEN
	ACCEPT submitted values
	PRINT error message 4205: [Indigenous Status] of (1, 2, or 3) NOT COMPATIBLE WITH
	[Country Of Birth] of (<= 1100, >= 1199, and <> 1302)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
indigenous_status in ('1','2','3') and
country_of_birth not in ('1100','1101','1102','1199','1302')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4206: [Indigenous Status] changed from/to (1, 2, 3, or 4) since last admission record

Pseudocode

```
IF
(
	[Indigenous Status] (data item 13) on current admission record = 1 (Aboriginal but not
	Torres Strait Islander origin)
	AND
	(
		[Indigenous Status] (data item 13) on previous admission record = 2 (Torres
		Strait Islander but not Aboriginal origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 3 (Both
		Aboriginal and Torres Strait Islander origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 4 (Neither
		Aboriginal nor Torres Strait Islander origin)
	)
OR
(
	[Indigenous Status] (data item 13) on current admission record = 2 (Torres Strait
	Islander but not Aboriginal origin)
	AND
	(
		[Indigenous Status] (data item 13) on previous admission record = 1 (Aboriginal
		but not Torres Strait Islander origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 3 (Both
		Aboriginal and Torres Strait Islander origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 4 (Neither
		Aboriginal nor Torres Strait Islander origin)
	)
)
OR
(
	[Indigenous Status] (data item 13) on current admission record = 3 (Both Aboriginal
	and Torres Strait Islander origin)
	AND
	(
		[Indigenous Status] (data item 13) on previous admission record = 1 (Aboriginal
		but not Torres Strait Islander origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 2 (Torres
		Strait Islander but not Aboriginal origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 4 (Neither
		Aboriginal nor Torres Strait Islander origin)
	)
)
OR
(
	[Indigenous Status] (data item 13) on current admission record = 4 (Neither Aboriginal
	nor Torres Strait Islander origin)
	AND
	(
		[Indigenous Status] (data item 13) on previous admission record = 1 (Aboriginal
		but not Torres Strait Islander origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 2 (Torres
		Strait Islander but not Aboriginal origin)
		OR
		[Indigenous Status] (data item 13) on previous admission record = 3 (Both
		Aboriginal and Torres Strait Islander origin)
	)
)

THEN
	ACCEPT submitted values
	PRINT error message 4206: [Indigenous Status] changed from/to (1, 2, 3, or 4) since
	last admission record
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_4206: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@indigenous_status + ' || '  + @separation_date + ' || ' + @separation_time + ' || ' +
@record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for latest previous record for same Hosp + MRN that changes
indigenous status
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                ) -- Separation datetime of latest episode
of care
    AND      @record_type = '2' -- New
    AND      IFA.IND_STATUS <> @indigenous_status -- Logic of indigenous status changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    -- Correction record... looking for latest previous record for same Hosp + MRN that
changes indigenous status but not record being updated
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                AND      [SEP_DATETIME] <> DATEADD(MI,
CONVERT(INT,SUBSTRING(@separation_time, 3, 2)), DATEADD(HH,
CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME, SUBSTRING(@separation_date,
1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' + SUBSTRING(@separation_date, 5, 4)))) -
- Looking at other records than one being corrected
                                                ) -- Separation datetime of latest episode
of care but not record being updated
    --AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3,
2)), DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected,
NOTE: logically not required as already excluded by max separation date criteria
    AND      @record_type = '3' -- Correction
    AND      IFA.IND_STATUS <> @indigenous_status -- Logic of indigenous status changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
```

```
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4210: [Hospital Insurance] not (1, 2, or 9)

Pseudocode

```
IF
(
	[Hospital Insurance] (data item 17) <> 1 (Hospital insurance)
	AND
	[Hospital Insurance] (data item 17) <> 2 (No hospital insurance)
	AND
	[Hospital Insurance] (data item 17) <> 9 (Unknown)
)
THEN
	ACCEPT submitted values
	PRINT error message 4210: [Hospital Insurance] not (1, 2, or 9)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Insurance_Status in codes.domain dc_Field_Name 'Insurance Status' dc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4215: [Postcode] and [Statistical Local Area] combination not in system reference table DEFAULTS [Statistical Local Area] to first lookup value for postcode

Pseudocode

```
IF
(
        [Postcode] (data item 06)
        &
        [Statistical Local Area] (data item 07)
)
<>
(
        [Postcode] in system reference table
        &
        [Statistical Local Area] in system reference table
)
THEN
        DEFAULT [Statistical Local Area] (data item 07) = [Statistical Local Area] from system
        reference table
        PRINT error message 4215: [Postcode] and [Statistical Local Area] combination not in
        system reference table DEFAULTS [Statistical Local Area] to first lookup value for
        postcode
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
postcode = Codes.Location lc_postcode and
sla = lc_SLA_Code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4220: [Legal Status] not (1, 2, 3 or 4)

Pseudocode

```
IF
(
	[Legal Status] (data item 71) <> 1 (Involuntary)
	AND
	[Legal Status] (data item 71) <> 2 (Forensic)
	AND
	[Legal Status] (data item 71) <> 3 (Voluntary)
	AND
	[Legal Status] (data item 71) <> 4 (Involuntary Forensic)
)
THEN
	ACCEPT submitted values
	PRINT error message 4220: [Legal Status] not (1, 2, 3 or 4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Legal_Status in ('1','2','3',’4’)
```

Issue

None.

Update data quality check

Updated 1 July 2023 to include 4 – Involuntary Forensic

Result

None.

Action

None.

4225: [Principal Diagnosis], [Additional Diagnosis], or [External Cause] contains [Diagnosis] in system reference table with [Rare Diagnosis] of (1)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = (Any [Diagnosis] in system reference table with
        [Rare Diagnosis Flag] = 1)
OR
        [Additional Diagnosis] (data item 46_001-46_099) = (Any [Diagnosis] in system
        reference table with [Rare Diagnosis Flag] = 1)
OR
        [External Cause] (data item 47) = (Any [Diagnosis] in system reference table with
        [Rare Diagnosis Flag] = 1)
THEN
        ACCEPT submitted values
        PRINT error message: 4225: [Principal Diagnosis], [Additional Diagnosis], or [External
        Cause] contains [Diagnosis] in system reference table with [Rare Diagnosis] of (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;

    WITH additional_diagnosisCTE AS
    (
        SELECT icd_code = val
        FROM dbo.ValidateDelimitedField(@additional_diagnosis, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
       , all_diagnosis_and_cause AS
    (
        SELECT icd_code
        FROM additional_diagnosisCTE
        UNION
        SELECT d.icd_code
        FROM (VALUES (@principal_diagnosis), (@external_cause)) d (icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT @IsInValid =
        CASE
            WHEN EXISTS (
                            SELECT TOP (1) 1
                            FROM all_diagnosis_and_cause
                            WHERE icd_code IN ( SELECT icd_code FROM [dbo].[vw_Codes_ICD10AM]
WHERE icd_rare_dx_flag = '1' )
                        )
            THEN 1
            ELSE 0
        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Updated 1 July 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4230: [Referral For Further Health Care] not (01, 02, 03, 04, 05, 06, 07, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, or 99)

Pseudocode

```
IF
(
	[Referral For Further Health Care] (data item 72) <> 01 (Not referred)
	AND
	[Referral For Further Health Care] (data item 72) <> 02 (Private medical specialist:
	Excluding psychiatrist)
	AND
	[Referral For Further Health Care] (data item 72) <> 03 (Other private health
	practitioner)
	AND
	[Referral For Further Health Care] (data item 72) <> 04 (Outpatient / Emergency
	department: Acute hospital)
	AND
	[Referral For Further Health Care] (data item 72) <> 05 (Community mental health
	service)
	AND
	[Referral For Further Health Care] (data item 72) <> 06 (Other community health
	service)
	AND
	[Referral For Further Health Care] (data item 72) <> 07 (Hospital at home / Rehab at
	home)
	AND
	[Referral For Further Health Care] (data item 72) <> 11 (Residential mental health
	service)
	AND
	[Referral For Further Health Care] (data item 72) <> 13 (Transition care package)
	AND
	[Referral For Further Health Care] (data item 72) <> 14 (Other residential health
	service)
	AND
	[Referral For Further Health Care] (data item 72) <> 15 (Private medical specialist:
	Psychiatrist)
	AND
	[Referral For Further Health Care] (data item 72) <> 16 (Drug and alcohol inpatient
	facility)
	AND
	[Referral For Further Health Care] (data item 72) <> 17 (Drug and alcohol non-
	inpatient facility)
	AND
	[Referral For Further Health Care] (data item 72) <> 18 (Outpatient / Emergency
	department: Psychiatric hospital)
	AND
	[Referral For Further Health Care] (data item 72) <> 20 (NDIS home support)
	AND
	[Referral For Further Health Care] (data item 72) <> 21 (NDIS short-term
	accommodation)
	AND
	[Referral For Further Health Care] (data item 72) <> 22 (NDIS long-term accommodation)
	AND
	[Referral For Further Health Care] (data item 72) <> 23 (NDIS residential aged care:
	Usual place of res)
	AND
	[Referral For Further Health Care] (data item 72) <> 24 (NDIS residential aged care:
	Not usual place of res)
	AND
	[Referral For Further Health Care] (data item 72) <> 25 (NDIS other)
	AND
	[Referral For Further Health Care] (data item 72) <> 99 (Other / Unknown)
)
THEN
	ACCEPT submitted values
	PRINT error message 4230: [Referral For Further Health Care] not (01, 02, 03, 04, 05,
	06, 07, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, or 99)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      ISNULL(@referral_for_further_care, '') NOT BETWEEN '01' AND '07'
      AND
      ISNULL(@referral_for_further_care, '') NOT BETWEEN '13' AND '25'
      AND
      ISNULL(@referral_for_further_care, '') NOT IN ('11','99')
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated 1 July 2023 to reflect numeric codes for NDIS Referral for Further Care options.

Result

None.

Action

None.

4235: [Principal Diagnosis] or [Additional Diagnosis] of (I500, or I501) DOES NOT REQUIRE [Additional Diagnosis] of (I500, or I501)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = I500, or I501
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I500, or I501
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = I500, or I501
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I500, or I501
)
THEN
        ACCEPT submitted values
        PRINT error message 4235: [Principal Diagnosis] or [Additional Diagnosis] of (I500, or
        I501) DOES NOT REQUIRE [Additional Diagnosis] of (I500, or I501)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis in ('I500','I501') AND (
dbo.ContainsStrings('|I500|',additional_diagnosis) > 0 OR
dbo.ContainsStrings('|I501|',additional_diagnosis) > 0 )) OR (
dbo.ContainsStrings('|I500|',additional_diagnosis) > 0 AND
dbo.ContainsStrings('|I501|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4236: [Procedure] from (Block 1856, or 3821300) DOES NOT REQUIRE [Procedure] from (Block 650, Block 653, Block 655, or Block 656)

Pseudocode

```
IF
(
        Principal [Procedure] (data item 49_001) = Block 1856, or 3821300
        AND
        Additional [Procedure] (data item 49_002-49_099) = Block 650, Block 653, Block 655,
        Block 656
OR
        Additional [Procedure] (data item 49_002-49_099) = Block 1856, or 3821300
        AND
        Principal [Procedure] (data item 49_001) = Block 650, Block 653, Block 655, Block 656
OR
        Additional [Procedure] (data item 49_002-49_099) = Block 1856, or 3821300
        AND
        Additional [Procedure] (data item 49_002-49_099) = Block 650, Block 653, Block 655,
        Block 656
)
THEN
        ACCEPT submitted values
        PRINT error message 4236: [Procedure] from (Block 1856, or 3821300) DOES NOT REQUIRE
        [Procedure] from (Block 650, Block 653, Block 655, or Block 656)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                              WHEN
                              (
                                  (
                                      @principal_procedure IN
('1171800','1172103','1172700','3821300')
                                      OR
dbo.ContainsStrings('|1171800|1172103|1172700|3821300|',@additional_procedure) > 0
                                  )
                              AND
                                  (
                                      @principal_procedure IN ('3835300', '3835301', '3835302',
'3839300', '3839301', '9020305', '9020306', '9020307')
                                      OR

dbo.ContainsStrings('|3835300|3835301|3835302|3839300|3839301|9020305|9020306|9020307|',@addit
ional_procedure) > 0
                                  )
                              )

                              THEN 1
                              ELSE 0
                          END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4237: [Principal Diagnosis] or [Additional Diagnosis] of (Z450) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z950)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z450
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z950
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z450
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z950
THEN
        ACCEPT submitted values
        PRINT error message 4237: [Principal Diagnosis] or [Additional Diagnosis] of (Z450)
        NOT COMPATIBLE WITH [Additional Diagnosis] of (Z950)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                  @principal_diagnosis = 'Z450'
                                  AND
                                  dbo.ContainsStrings('|Z950|',@additional_diagnosis) > 0
                               )
                               OR
                               (
                                  dbo.ContainsStrings('|Z450|',@additional_diagnosis) > 0
                                  AND
                                  dbo.ContainsStrings('|Z950|',@additional_diagnosis) > 0
                               )
                           )

                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4240: [Nature Of Separation] of (2, 5, 6, 7, or E), and [Referral For Further Health Care] not (01)

Pseudocode

```
IF
(
        [Nature Of Separation] (data item 42) = 2 (Other hospital: Up transfer)
        OR
        [Nature Of Separation] (data item 42) = 5 (Died: No autopsy)
        OR
        [Nature Of Separation] (data item 42) = 6 (Died: Autopsy)
        OR
        [Nature Of Separation] (data item 42) = 7 (Other hospital: Down transfer)
        OR
        [Nature Of Separation] (data item 42) = E (End of quarter reporting)
)
AND
        [Referral For Further Health Care] (data item 72) <> 01 (Not referred)
THEN
        ACCEPT submitted values
        PRINT error Message 4240: [Nature Of Separation] of (2, 5, 6, 7, or E), and [Referral
        For Further Health Care] not (01)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
UPDATE [HealthValidator].[dbo].[ValidationSetExpressions] SET [description] =
'[Nature Of Separation] of (2, 5, 6, 7, or E), and [Referral For Further Health
Care] not (01) WHERE code = '4240'
```

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      @nature_of_separation IN ('2', '5', '6', '7', 'E')
      AND
      ISNULL(@referral_for_further_care, '') <> '01'
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4245: [Principal Diagnosis] or [Additional Diagnosis] of (I500, or J81) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] (I500, or J81)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = I500, or J81
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I500, or J81
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = I500, or J81
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I500, or J81
)
THEN
        ACCEPT submitted values
        PRINT error message 4245: [Principal Diagnosis] or [Additional Diagnosis] of (I500, or
        J81) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] (I500, or J81)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    --DECLARE @s varchar(2500);
    --set @s= @principal_diagnosis+','+@additional_diagnosis;
    WITH diagnosisCTE AS
    (
        SELECT  DiagnosisCode    = val
        FROM dbo.ValidateDelimitedField (@principal_diagnosis+','+@additional_diagnosis, ',',
1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT    @IsInValid = CASE
                           WHEN EXISTS
                           (
                               ( select top 1 1 FROM diagnosisCTE WHERE    DiagnosisCode
='J81')
                               INTERSECT
                               --(  select top 1 1 FROM diagnosisCTE WHERE    DiagnosisCode
='I501')
                               (  select top 1 1 FROM diagnosisCTE WHERE    DiagnosisCode
='I500')
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4246: [Principal Diagnosis] of (I501, or J81) DOES NOT REQUIRE [Additional Diagnosis] of (I501, or J81)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = I501 or J81
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I501 or J81
)
THEN
        ACCEPT submitted values
        PRINT error message 4246: [Principal Diagnosis] of (I501, or J81) DOES NOT REQUIRE
        [Additional Diagnosis] of (I501, or J81)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid   SMALLINT = 0
   SELECT  @IsInValid = CASE
                    -- July1'17 Implementation
                    WHEN (
                          (   @principal_diagnosis = 'J81'
                             AND
                             (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'I501') IS NOT NULL
                          )
                          OR
                          (   @principal_diagnosis = 'I501'
                             AND
                             (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'J81') IS NOT NULL
                          )
                          OR
                          (   (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'J81') IS NOT NULL
                             AND
                             (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 26) WHERE val =
'I501') IS NOT NULL
                          )
                       )
                       AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                       --AND REPLACE(@separation_date,'-','') >= '20170101' -- Pre 2017 Date
Check (UAT)
                       AND REPLACE(@separation_date,'-','') >= '20170701' -- PROD Version
                    THEN 1
                    ELSE 0
                        END ;
    RETURN  @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4250: [Hospital Transferred To] not in system reference table

Pseudocode

```
IF
       [Hospital Transferred To] (data item 44) not in system reference table
THEN
       ACCEPT submitted values
       PRINT error message 4250: [Hospital Transferred To] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Transferred_To is null  or
Hospital_Transferred_To = '0000' or
Hospital_Transferred_To in codes.Hospitalshc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4255: [Episode Of Care] of (4, or 7) INCOMPATIBLE WITH [Principal Diagnosis] of (Z500-Z501, or Z504-Z509)

Pseudocode

```
IF
(
        (
                [Episode Of Care] (data item 51) = 4 (Rehabilitation)
                OR
                [Episode Of Care] (data item 51) = 7 (Hospital at home / Rehab at home)
        )
AND
        [Principal Diagnosis] (data item 45) = Z500-Z501, or Z504-Z509
)
THEN
        ACCEPT submitted values
        PRINT error message 4255: [Episode Of Care] of (4, or 7) INCOMPATIBLE WITH [Principal
        Diagnosis] of (Z500-Z501, or Z504-Z509)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInvalid INT ;
   SELECT @IsInvalid = CASE
   WHEN @principal_diagnosis in ('Z500','Z501','Z504','Z505','Z506','Z507','Z508','Z509')
      AND @episode_of_care not in   ('4','7')
      THEN 1
      ELSE 0
   END

RETURN @IsInvalid
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4260: [Hospital Transferred To] not blank and [Nature Of Separation] not (2, 7, or X)

Pseudocode

```
IF
        [Nature Of Separation] (data item 42) <> 2 (Other hospital: Up transfer)
        AND
        [Nature Of Separation] (data item 42) <> 7 (Other hospital: Down transfer)
        AND
        [Nature Of Separation] (data item 42) <> X (Retrieval)
)
AND
        [Hospital Transferred To] (data item 44) is in system reference table
THEN
        ACCEPT submitted values
        PRINT error message 4260: [Hospital Transferred To] not blank and [Nature Of
        Separation] not (2, 7, or X)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Nature_Of_Separation <> '2' and
Nature_Of_Separation <> '7' and
Nature_Of_Separation <> 'X' and
Hospital_Transferred_To IN codes.Hospitalshc_code and
nullif(Hospital_Transferred_To,'') is not null
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4265: [Episode Of Care] of (4) REQUIRES [Procedure] from (Block 1916)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 4 (Rehabilitation)
AND
        [Procedure] (data item 49_001-49_099) <> Block 1916
THEN
        ACCEPT submitted values
        PRINT error message 4265: [Episode Of Care] of (4) REQUIRES [Procedure] from (Block
        1916)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid INT = 0 ;

    WITH All_procedures AS
    (
        SELECT  icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
        UNION
        SELECT rtrim(ltrim(d.icd_code))
        FROM (VALUES(@principal_procedure)) d(icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )

    SELECT @IsInValid = CASE
                            WHEN
                            (@episode_of_care = '4'
                            AND NOT EXISTS
                                 (  SELECT TOP (1) 1
                                    FROM All_procedures
                                    WHERE icd_Code IN (SELECT icd_code FROM vw_Codes_ICD10AM
WHERE icd_proc_block = '1916')
                                    --WHERE icd_Code IN
('9555000','9555001','9555002','9555003','9555004','9555005','9555006','9555007','9555008','95
55009','9555010','9555011','9555012','9555014')
                                 ))
                            -- OR @episode_of_care <> 4

                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;

END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4270: [Nature Of Separation] of (2, 7, or X) REQUIRES [Hospital Transferred To]

Pseudocode

```
IF
(
	[Nature Of Separation] (data item 42) = 2 (Other hospital: Up transfer)
	OR
	[Nature Of Separation] (data item 42) = 7 (Other hospital: Down transfer)
	OR
	[Nature Of Separation] (data item 42) = X (Retrieval)
)
AND
	[Hospital Transferred To] (data item 44) is blank
THEN
	ACCEPT submitted values
	PRINT error message 4270: [Nature Of Separation] of (2, 7, or X) REQUIRES [Hospital
	Transferred To]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Nature_Of_Separation in ('2','7','X') And
(Hospital_Transferred_To is null or
Hospital_Transferred_To = '0000' )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4275: [Procedure] of (3001001) REQUIRES [Procedure] from (9251400-9251499, or 9251500-9251599)

Pseudocode

```
IF
	[Procedure] (data item 49_001-49_099) = 3001001
AND
	[Procedure] (data item 49_001-49_099) <> 9251400-9251499, or 9251500-9251599
THEN
	ACCEPT submitted values
	PRINT error message 4275: [Procedure] of (3001001) REQUIRES [Procedure] from (9251400-9251499, or 9251500-9251599)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
UPDATE [HealthValidator].[dbo].[ValidationSetExpressions] SET [description] = '[Procedure] of (3001001) REQUIRES [Procedure] from (9251400-9251499, or 9251500-9251599)' WHERE code = '4275'
```

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH allProceduresCTE AS
    (
        SELECT  icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
        UNION ALL
        SELECT d.icd_code FROM (VALUES(@principal_procedure)) d(icd_code) WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN    EXISTS (
                                        SELECT TOP (1) 1
                                        FROM allProceduresCTE
                                        WHERE   icd_Code IN ('3001000', '3001400')
                                    )
                                AND NOT EXISTS (
                                        SELECT TOP (1) 1
                                        FROM allProceduresCTE
                                        WHERE   icd_Code LIKE '92514%'
                                            OR  icd_Code LIKE '92515%'
                                    )
                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END ;
```

Issue

Removing 3001000 and 3001400, adding 3001001.

Update data quality check

Update [Procedure] and add 3001001 and remove 3001000 and 3001400.

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4276: [Additional Diagnosis] of (T203, T2130-T2139, T2230-T2232, T233, T243, T253, T293, or T303) MUST BE SEQUENCED BEFORE [Principal Diagnosis] of (T200-T202, T2100-T2129, T2200-T2222, T230-T232, T240-T242, T250-T252, T290-T292, or T300-T302)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = T200-T202, T2100-T2129, T2200-T2222, T230-T232,
        T240-T242, T250-T252, T290-T292, or T300-T302
AND
        [Additional Diagnosis] (data item 46_001-46_099) = T203, T2130-T2139, T2230-T2232,
        T233, T243, T253, T293, or T303
THEN
        ACCEPT submitted values
        PRINT error message 4276: [Additional Diagnosis] of (T203, T2130-T2139, T2230-T2232,
        T233, T243, T253, T293, or T303) MUST BE SEQUENCED BEFORE [Principal Diagnosis] of
        (T200-T202, T2100-T2129, T2200-T2222, T230-T232, T240-T242, T250-T252, T290-T292, or
        T300-T302)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additionalDiagnosisCTE AS
    (
        SELECT  DiagnosisCode   = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN    (
                                        @principal_diagnosis BETWEEN 'T200' AND 'T202'
                                        OR @principal_diagnosis BETWEEN 'T2100' AND 'T2129'
                                        OR @principal_diagnosis BETWEEN 'T2200' AND 'T2222'
                                        OR @principal_diagnosis BETWEEN 'T230' AND 'T232'
                                        OR @principal_diagnosis BETWEEN 'T240' AND 'T242'
                                        OR @principal_diagnosis BETWEEN 'T250' AND 'T252'
                                        OR @principal_diagnosis BETWEEN 'T290' AND 'T292'
                                        OR @principal_diagnosis BETWEEN 'T300' AND 'T302'
                                    )
                                    AND EXISTS
                                    (
                                        SELECT TOP (1) 1
                                        FROM additionalDiagnosisCTE
                                        WHERE   DiagnosisCode BETWEEN 'T2130' AND 'T2139'
                                            OR  DiagnosisCode BETWEEN 'T2230' AND 'T2232',
                                            OR  DiagnosisCode IN ('T203','T233', 'T243',
'T253', 'T293', 'T303')
                                    )

                                    --AND ISDATE(@separation_date) = 1
                                    --AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01'
-- Additional condition so that only newer records are flagged.

                                    AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
                                    AND REPLACE(@separation_date,'-','') >= '20140701'

                                THEN 1
                                ELSE 0
                            END ;

    RETURN @IsInValid ;

END ;
```

Issue

None.

Update data quality check

Updated logic to replace additional diagnosis code T223 with range T2230-T2232 and data quality check message July 2021.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4280: [Hospital Transferred To] = [Hospital Number]

Pseudocode

```
IF
	[Hospital Transferred To] (data item 44) = [Hospital Number] (data item 01)
THEN
	ACCEPT submitted values
	PRINT error message 4280: [Hospital Transferred To] = [Hospital Number]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Transferred_To <> Hospital_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4285: [Principal Diagnosis] or [Additional Diagnosis] of (T200-T253, T290-T293, or L550-L559) REQUIRES [Additional Diagnosis] of (T3100-T3199)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = T200-T253, T290-T293, or L550-L559
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> T3100-T3199
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = T200-T253, T290-T293, or L550-L559
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> T3100-T3199
)
THEN
        ACCEPT submitted values
        PRINT error message 4285: [Principal Diagnosis] or [Additional Diagnosis] of (T200-
        T253, T290-T293, or L550-L559) REQUIRES [Additional Diagnosis] of (T3100-T3199)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE (dx) AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT RTRIM(LTRIM(@principal_diagnosis))
    )

    SELECT @IsInValid =
            CASE
                WHEN
                    EXISTS (
                            SELECT TOP 1 dx
                            FROM all_diagnosisCTE
                            WHERE (        dx BETWEEN 'T200' AND 'T253'
                                    OR     dx BETWEEN 'T290' AND 'T293'
                                    OR     dx BETWEEN 'L550' AND 'L559')
                        )
                AND

                (SELECT TOP 1 val FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',',
1, 101) WHERE val BETWEEN 'T3100' AND 'T3199') IS NULL

                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)
= 1
                AND REPLACE(@separation_date,'-','') >= '20170701'

                THEN 1
                ELSE 0
            END

    RETURN @IsInValid ;

END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4290: [Hospital Transferred From] not in system reference table

Pseudocode

```
IF
	[Hospital Transferred From] (data item 18) not in system reference table
THEN
	ACCEPT submitted values
	PRINT error message 4290: [Hospital Transferred From] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Transferred_From is null  or
Hospital_Transferred_From = '0000' or
Hospital_Transferred_From in codes.hospitalshc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4295: [Additional Diagnosis] of (T3100-T3199) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (T200-T253, T290-T293, or L550-L559)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = T3100-T3199
        AND
        [Principal Diagnosis] (data item 45) <> T200-T253, T290-T293, or L550-L559
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = T3100-T3199
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> T200-T253, T290-T293, or L550-L559
)
THEN
        ACCEPT submitted values
        PRINT error message 4295: [Additional Diagnosis] of (T3100-T3199) REQUIRES [Principal
        Diagnosis] or [Additional Diagnosis] of (T200-T253, T290-T293, or L550-L559)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE (dx) AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT RTRIM(LTRIM(@principal_diagnosis))
    )

    SELECT @IsInValid =

            CASE
                WHEN

                (SELECT TOP 1 val FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',',
1, 101) WHERE val BETWEEN 'T3100' AND 'T3199') IS NOT NULL

                AND
                NOT EXISTS (
                            SELECT TOP 1 dx
                            FROM all_diagnosisCTE
                            WHERE (        dx BETWEEN 'T200' AND 'T253'
                                    OR     dx BETWEEN 'T290' AND 'T293'
                                    OR     dx BETWEEN 'L550' AND 'L559')
                        )

                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)
= 1
                AND REPLACE(@separation_date,'-','') >= '20170701'

                THEN 1
                ELSE 0
            END

    RETURN @IsInValid ;

END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4300: [Hospital Transferred From] is not blank and [Source Of Referral] not (4, or X)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) <> 4 (Inter-Hospital transfer)
        AND
        [Source Of Referral] (data item 16) <> X (Retrieval)
)
AND
        [Hospital Transferred From] (data item 18) is in system reference table
THEN
        ACCEPT submitted values
        PRINT error message 4300: [Hospital Transferred From] is not blank and [Source Of
        Referral] not (4, or X)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      ISNULL(@Source_of_Referral, '') NOT IN ('4', 'X')
      AND
      ISNULL(@Hospital_Transferred_From, '') IN (select hc_code from Codes.Hospitals)
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4305: [Principal Diagnosis] or [Additional Diagnosis] of (T360-T509) NOT COMPATIBLE WITH [External Cause] or [Additional Diagnosis] of (Y400-Y599)

Pseudocode

```
IF
(
	[Principal Diagnosis] (data item 45) = T360-T509
	AND
	[External Cause] (data item 47) = Y400-Y599
)
OR
(
	[Principal Diagnosis] (data item 45) = T360-T509
	AND
	[Additional Diagnosis] (data item 46_001-46_099) = Y400-Y599
)
OR
(
	[Additional Diagnosis] (data item 46_001-46_099) = T360-T509
	AND
	[External Cause] (data item 47) = Y400-Y599
)
OR
(
	[Additional Diagnosis] (data item 46_001-46_099) = T360-T509
	AND
	[Additional Diagnosis] (data item 46_001-46_099) = Y400-Y599
)
THEN
	ACCEPT submitted values
	PRINT error message 4305: [Principal Diagnosis] or [Additional Diagnosis] of (T360-
	T509) NOT COMPATIBLE WITH [External Cause] or [Additional Diagnosis] of (Y400-Y599)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis BETWEEN 'T360' AND 'T509'
                                   OR (SELECT TOP 1 val FROM
dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101) WHERE val BETWEEN 'T360' AND
'T509') IS NOT NULL
                               )
                                   AND
                                       (
                                           @external_cause BETWEEN 'Y400' AND 'Y599'
                                           OR dbo.ContainsStrings('|Y[4-5][0-9][0-
9]|',@additional_diagnosis) > 0
                                           OR dbo.ContainsStrings('|Y4[0-
9]|',@additional_diagnosis) > 0
                                           OR dbo.ContainsStrings('|Y5[0-
9]|',@additional_diagnosis) > 0
                                       )
                           )

                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4310: [Hospital Transfer From] is blank and [Source Of Referral] of (4)

Pseudocode

```
IF
        [Source Of Referral] (data item 16) = 4 (Inter-Hospital transfer)
AND
(
        [Hospital Transferred From] (data item 18) is blank
        OR
        [Hospital Transferred From] (data item 18) not in system reference table
)
THEN
        ACCEPT submitted values
        PRINT error message 4310: [Hospital Transfer From] is blank and [Source Of Referral]
        of (4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Source_of_Referral = '4' and
(Hospital_Transferred_From = '0000' or
Hospital_Transferred_From is null  or
Hospital_Transferred_From not in Codes.Hospitalshc_code )
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4315: [Principal Diagnosis] or [Additional Diagnosis] (R400-R402) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] (S0000-S099)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = R400-R402
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = R400-R402
)
AND
(
        [Principal Diagnosis] (data item 45) = S0000-S099
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = S0000-S099
)
THEN
        ACCEPT submitted values
        PRINT error message 4315: [Principal Diagnosis] or [Additional Diagnosis] (R400-R402)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] (S0000-S099)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'S0000' and 'S099' or
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) between 'S0000' and 'S099' ) and
(principal_diagnosis in ('R400','R401','R402') or
dbo.ContainsStrings('|R400|R401|R402|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4320: [Hospital Transferred From] = [Hospital Number]

Pseudocode

```
IF
       [Hospital Transferred From] (data item 18) = [Hospital Number] (data item 01)
THEN
       ACCEPT submitted values
       PRINT error message 4320: [Hospital Transferred From] = [Hospital Number]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Transferred_From <> Hospital_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4321: [Referral For Further Health Care] of (08) is INVALID

Pseudocode

```
IF
       [Referral For Further Health Care] (data item 72) = 08 (Disability SA)
THEN
       ACCEPT submitted values
       PRINT error message 4231: [Referral For Further Health Care] of (08) is INVALID
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4340: Age at admission of (> 365 days), and [Admission Weight] not blank and not of (0000)

Pseudocode

```
IF
	Age at admission > 365 days
AND
(
	[Admission Weight] (data item 11) is not blank
	AND
	[Admission Weight] (data item 11) <> 0000
)
THEN
	ACCEPT submitted values
	PRINT error message 4340: Age at admission of (> 365 days), and [Admission Weight] not
	blank and not of (0000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Age_in_Days_at_Admission > 365 and
(admission_weight_grams <> '0000' and
nullif(admission_weight_grams,'') is not null  )
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4341: [Admission Weight] of (> 499 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0701)

Pseudocode

```
IF
(
        [Admission Weight] (data item 11) > 499
        AND
        [Principal Diagnosis] (data item 45) = P0701
(
OR
(
        [Admission Weight] (data item 11) > 499
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = P0701
)
THEN
        ACCEPT submitted values
        PRINT error message 4341: [Admission Weight] of (> 499 grams) NOT COMPATIBLE WITH
        [Principal Diagnosis] or [Additional Diagnosis] of (P0701)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'P0701' or
dbo.ContainsStrings('|P0701|',additional_diagnosis) > 0 ) and
admission_weight_grams > 499
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4342: [Admission Weight] of (< 500, or > 749 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0702)

Pseudocode

```
IF
(
        [Admission Weight] (data item 11) < 500 or > 749
        AND
        [Principal Diagnosis] (data item 45) = P0702
)
OR
(
        [Admission Weight] (data item 11) < 500 or > 749
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = P0702
)
THEN
        ACCEPT submitted values
        PRINT error message 4342: [Admission Weight] of (< 500, or > 749 grams) NOT COMPATIBLE
        WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0702)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'P0702' or
dbo.ContainsStrings('|P0702|',additional_diagnosis) > 0 ) and
(admission_weight_grams < 500 or
admission_weight_grams > 749 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4343: [Admission Weight] of (< 750, or > 999 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0703)

Pseudocode

```
IF
(
        [Admission Weight] (data item 11) < 750 or > 999
        AND
        [Principal Diagnosis] (data item 45) = P0703
)
OR
(
        [Admission Weight] (data item 11) < 750 or > 999
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = P0703
)
THEN
        ACCEPT submitted values
        PRINT error message 4343: [Admission Weight] of (< 750, or > 999 grams) NOT COMPATIBLE
        WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0703)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'P0703' or
dbo.ContainsStrings('|P0703|',additional_diagnosis) > 0 ) and
(admission_weight_grams < 750 or
admission_weight_grams > 999 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4344: [Admission Weight] of (< 1000, or > 1249 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0711)

Pseudocode

```
IF
(
        [Admission Weight] (data item 11) < 1000 or > 1249
        AND
        [Principal Diagnosis] (data item 45) = P0711
)
OR
(
        [Admission Weight] (data item 11) < 1000 or > 1249
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = P0711
)
THEN
        ACCEPT submitted values
        PRINT error message 4344: [Admission Weight] of (< 1000, or > 1249 grams) NOT
        COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0711)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'P0711' or
dbo.ContainsStrings('|P0711|',additional_diagnosis) > 0 ) and
(admission_weight_grams < 1000 or
admission_weight_grams > 1249 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4346: [Admission Weight] of (< 1250, or > 1499) grams NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0712)

Pseudocode

```
IF
(
        [Admission Weight] (data item 11) < 1250 or > 1499
        AND
        [Principal Diagnosis] (data item 45) = P0712
)
OR
(
        [Admission Weight] (data item 11) < 1250 or > 1499
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = P0712
)
THEN
        ACCEPT submitted values
        PRINT error message 4346: [Admission Weight] of (< 1250, or > 1499) grams NOT
        COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0712)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'P0712' or
dbo.ContainsStrings('|P0712|',additional_diagnosis) > 0 ) and
(admission_weight_grams < 1250 or
admission_weight_grams > 1499 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4347: [Admission Weight] of (< 1500, or > 2499 grams) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0713)

Pseudocode

```
IF
(
        [Admission Weight] (data item 11) < 1500 or > 2499
        AND
        [Principal Diagnosis] (data item 45) = P0713
)
OR
(
        [Admission Weight] (data item 11) < 1500 or > 2499
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = P0713
)
THEN
        ACCEPT submitted values
        PRINT error message 4347: [Admission Weight] of (< 1500, or > 2499 grams) NOT
        COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (P0713)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'P0713' or
dbo.ContainsStrings('|P0713|',additional_diagnosis) > 0 ) and
(admission_weight_grams < 1500 or
admission_weight_grams > 2499 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4350: [Admission Weight] of (< 400 grams)

Pseudocode

```
IF
	[Admission Weight] (data item 11) < 400 grams
THEN
	ACCEPT submitted record
	PRINT error message 4350: [Admission Weight] of (< 400 grams)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
nullif([admission_weight_grams],'0000') is not null  and
[admission_weight_grams] < 400 and
[admission_weight_grams] > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4355: [Hours on Mechanical Ventilation] of (0, or > 24 hours) NOT COMPATIBLE WITH [Procedure] from (1388200)

Pseudocode

```
IF
        [Procedure] (data item 49_001-49_099) = 1388200
AND
        [Hours On Mechanical Ventilation] (data item 41) = 0 or > 24 hours
THEN
        ACCEPT submitted values
        PRINT error message 4355: [Hours on Mechanical Ventilation] of (0, or > 24 hours) NOT
        COMPATIBLE WITH [Procedure] from (1388200)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@hours_on_mechanical_ventilation ---expect ####
select @ret = case
   when isnumeric(isnull(@hours_on_mechanical_ventilation,'NULL')) = 0 then 0
   when LEN(@hours_on_mechanical_ventilation)<>4 then 0
   else
      case
      when (dbo.ContainsStrings('|1388200|',@additional_procedure)>0 or
@principal_procedure='1388200') and
           (convert(int,@hours_on_mechanical_ventilation)=0 OR
convert(int,@hours_on_mechanical_ventilation)>24 ) then 1
      else 0
      end
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4360: [Admission Weight] of (> 6000 grams)

Pseudocode

```
IF
	[Admission Weight] (data item 11) > 6000 grams
THEN
	ACCEPT submitted record
	PRINT error message 4360: [Admission Weight] of (> 6000 grams)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
[admission_weight_grams] is null  or
[admission_weight_grams] <= '6000'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4365: [Hours on Mechanical Ventilation] of (< 24, or > 95 hours) NOT COMPATIBLE WITH [Procedure] from (1388201)

Pseudocode

```
IF
        [Procedure] (data item 49_001-49_099) = 1388201
AND
        [Hours On Mechanical Ventilation] (data item 41) < 25 hours or > 95 hours
THEN
        ACCEPT submitted values
        PRINT error message 4365: [Hours on Mechanical Ventilation] of (< 24, or > 95 hours)
        NOT COMPATIBLE WITH [Procedure] from (1388201)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@hours_on_mechanical_ventilation ---expect ####
select @ret = case
   when isnumeric(isnull(@hours_on_mechanical_ventilation,'NULL')) = 0 then 0
   when LEN(@hours_on_mechanical_ventilation)<>4 then 0
   else
      case
      when (dbo.ContainsStrings('|1388201|',@additional_procedure)>0 or
@principal_procedure='1388201') and
           (convert(int,@hours_on_mechanical_ventilation)<25 OR
convert(int,@hours_on_mechanical_ventilation)>95 ) then 1
      else 0
      end
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4370: [Clinical Unit] not in system reference table

Pseudocode

```
IF
	[Clinical Unit] (data item 02) not in system reference table
THEN
	ACCEPT submitted values
	PRINT error message 4370: [Clinical Unit] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
right ( clinic_code , 2 ) not in Codes.Domain dc_field_name 'clinic_code' dc_code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4375: [Hours on Mechanical Ventilation] of (< 96 hours) NOT COMPATIBLE WITH [Procedure] from (1388202)

Pseudocode

```
IF
        [Procedure] (data item 49_001-49_099) = 1388202
AND
        [Hours On Mechanical Ventilation] (data item 41) < 96 hours
THEN
        ACCEPT submitted values
        PRINT error message 4375: [Hours on Mechanical Ventilation] of (< 96 hours) NOT
        COMPATIBLE WITH [Procedure] from (1388202)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@hours_on_mechanical_ventilation ---expect ####
select @ret = case
   when isnumeric(isnull(@hours_on_mechanical_ventilation,'NULL')) = 0 then 0
   when LEN(@hours_on_mechanical_ventilation)<>4 then 0
   else
      case
      when (dbo.ContainsStrings('|1388202|',@additional_procedure)>0 or
@principal_procedure='1388202') and
           (convert(int,@hours_on_mechanical_ventilation)<96 ) then 1
      else 0
      end
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4380: [Medicare Number] of invalid format

Pseudocode

```
IF
	[Medicare Number] (data item 04) is invalid
THEN
	ACCEPT submitted values
	PRINT error message 4380: [Medicare Number] of invalid format
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Check_Medicare(Medicare_Number) = 0
```

Issue

None.

Update data quality check

Updated December 20021 to remove default value.

Result

None.

Action

None.

4382: [Medicare Number IRN] not (1, 2, 3, 4, 5, 6, 7, 8, or 9), and [Medicare Number] not blank and not (0000000000, or 0000000009)

Pseudocode

```
IF
        [Medicare Number] (data item 04) <> 0000000000, 0000000009, or is not blank
AND
        [Medicare Number IRN] (data item 100) <> 1, 2, 3, 4, 5, 6, 7, 8, or 9
THEN
        ACCEPT submitted values
        PRINT error message 4382: [Medicare Number IRN] not (1, 2, 3, 4, 5, 6, 7, 8, or 9),
        and [Medicare Number] not blank and not (0000000000, or 0000000009)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0
--   exec xp_logevent 50002,@Separation_Date
    IF   NULLIF(@medicare_number, '') IS NOT NULL
   AND @medicare_number NOT IN ('0000000000', '0000000009')
   AND ISNULL(@medicare_IRN, '') NOT BETWEEN '1' AND '9'
   AND @separation_date > '01 Jul 2013'
      BEGIN
         SET @IsInValid = 1 ;
      END ;
   RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4382A: [Medicare Number IRN] not (0), and [Medicare Number] of (0000000000, or 0000000009)

Pseudocode

```
IF
        [Medicare Number] = 0000000000 or 0000000009
AND
        [Medicare Number IRN] (data item 100) <> 0
THEN
        ACCEPT submitted values
        PRINT error message 4382A: [Medicare Number IRN] not (0), and [Medicare Number] of
        (0000000000, or 0000000009)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0
    IF   @medicare_number IN ('0000000000', '0000000009')
   AND ISNULL(@medicare_IRN, '') <> '0'
   AND @separation_date > '01 Jul 2013'
   BEGIN
      SET @IsInValid = 1 ;
   END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4385: Admitted Patient Care Hours on Mechanical Ventilation not compatible with CVS codes

Pseudocode

None.

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4390: [Patient Category] not (1, 2, or 4), and [Admission Date] <> [Separation Date]

Pseudocode

```
IF
(
        [Patient Category] (data item 14) <> 1 (Overnight stay)
        AND
        [Patient Category] (data item 14) <> 2 (Day only: Type C exclusion list)
        AND
        [Patient Category] (data item 14) <> 4 (Day only: Type B band)
)
AND
        [Admission Date] (data item 21) <> [Separation Date] (data item 43)
THEN
        ACCEPT submitted record
        PRINT error message 4390: [Patient Category] not (1, 2, or 4), and [Admission Date] <>
        [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(Patient_Category not in ('1','2','4') or
nullif(Patient_Category,'') is null  ) and
Admission_Date <> separation_date
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4390A: [Patient Category] not (1, 2, or 4), and [Admission Date] = [Separation Date]

Pseudocode

```
IF
(
        [Patient Category] (data item 14) <> 1 (Overnight stay)
        AND
        [Patient Category] (data item 14) <> 2 (Day only: Type C exclusion list)
        AND
        [Patient Category] (data item 14) <> 4 (Day only: Type B band)
)
AND
        [Admission Date] (data item 21) = [Separation Date] (data item 43)
THEN
        ACCEPT submitted record
        PRINT error message 4390A: [Patient Category] not (1, 2, or 4), and [Admission Date] =
        [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(Patient_Category not in ('1','2','4') or
nullif(Patient_Category,'') is null  ) and
Admission_Date = separation_date
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4395: [Indigenous Status] (not 1, 2, 3, 4, or 9)

Pseudocode

```
IF
(
	[Indigenous Status] (data item 13) <> 1 (Aboriginal but not Torres Strait Islander
	origin)
	AND
	[Indigenous Status] (data item 13) <> 2 (Torres Strait Islander but not Aboriginal
	origin)
	AND
	[Indigenous Status] (data item 13) <> 3 (Both Aboriginal and Torres Strait Islander
	origin)
	AND
	[Indigenous Status] (data item 13) <> 4 (Neither Aboriginal nor Torres Strait Islander
	origin)
	AND
	[Indigenous Status] (data item 13) <> 9 (Not stated / Inadequately described)
)
THEN
	ACCEPT submitted record
	PRINT error message 4395: [Indigenous Status] (not 1, 2, 3, 4, or 9)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Indigenous_Status in codes.domain dc_Field_Name 'Indigenous Status' dc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4396: [Indigenous Status] of (1, 2, or 3) NOT COMPATIBLE WITH [Funding Source] of (07, or 08)

Pseudocode

```
IF
(
	[Indigenous Status] (data item 13) = 1 (Aboriginal but not Torres Strait Islander
	origin)
	OR
	[Indigenous Status] (data item 13) = 2 (Torres Strait Islander but not Aboriginal
	origin)
	OR
	[Indigenous Status] (data item 13) = 3 (Both Aboriginal and Torres Strait Islander
	origin)
)
AND
(
	[Funding Source] (data item 95) = 07 (Overseas-RHCA)
	OR
	[Funding Source] (data item 95) = 08 (Non-Medicare)
)
THEN
	ACCEPT submitted record
	PRINT error message 4396: [Indigenous Status] of (1, 2, or 3) NOT COMPATIBLE WITH
	[Funding Source] of (07, or 08)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
declare @s varchar(1000)
/*
---convert NULLs so we can display to log if we feel like
--set
@s=ISNULL(@leave_to_date_time_1,'NULL')+'|'+ISNULL(@leave_to_date_time_2,'NULL')+'|'+ISNULL(@l
eave_to_date_time_3,'NULL')+ISNULL(@leave_to_date_time_4,'NULL')
--set
@s=@s+'|'+ISNULL(@leave_from_date_time_1,'NULL')+'|'+ISNULL(@leave_from_date_time_2,'NULL')+'|
'+ISNULL(@leave_from_date_time_3,'NULL')+ISNULL(@leave_from_date_time_4,'NULL')
--exec xp_logevent 50001,@s ---expect date like MMM dd YYYY hh:mm - ie : Aug 11 2011  4:00PM
*/
select @ret = case
   when Isnumeric(@Indigenous_Status)=0 OR Isnumeric(@Funding_Source)=0 then 0
   when convert(int,@Indigenous_Status)   in   ('1','2','3') and convert(int,@Funding_Source)
in   ('7','8') then  1
   else 0
end
return @ret
end
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4400: [Admission Category] not (1, 2, 3, or 4)

Pseudocode

```
IF
(
        [Admission Category] (data item 15) <> 1 (Elective)
        AND
        [Admission Category] (data item 15) <> 2 (Emergency)
        AND
        [Admission Category] (data item 15) <> 3 (Elective: Waiting list)
        AND
        [Admission Category] (data item 15) <> 4 (Not applicable)
)
THEN
        ACCEPT submitted record
        PRINT error message 4400: [Admission Category] not (1, 2, 3, or 4)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Admission_Category not in ('1','2','3','4')
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4405: [Admission Category] not (3) INCOMPATIBLE WITH [Hospital Number] of (0003, 0005, 0014, 0018, 0019, 0027, or 0030)

Pseudocode

```
IF
(
        [Admission Category] (data item 15) <> 3 (Elective: Waiting list)
AND
        [Hospital Number] (data item 1) = 0003, 0005, 0014, 0018, 0019, 0027, or 0030
)
THEN
        ACCEPT submitted values
        PRINT error message 4405: [Admission Category] not (3) INCOMPATIBLE WITH [Hospital
        Number] of (0003, 0005, 0014, 0018, 0019, 0027, or 0030)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Admission_Category <>    '3' or
Hospital_Code in    ('0003', '0005', '0014', '0018', '0019', '0027', '0030')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4410: [Admission Election] not (2), and [Hospital Number] of (>= 4000)

Pseudocode

```
IF
(
        [Admission Election] (data item 19) <> 1 (Hospital)
        AND
        [Admission Election] (data item 19) <> 2 (Private)
)
AND
        [Hospital Number] (data item 01) >= 4000
THEN
        ACCEPT submitted record
        PRINT error message 4410: [Admission Election] not (1, or 2), and [Hospital Number] of
        (>= 4000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      ISNULL(@admission_election, '') NOT IN ('1', '2')
      AND EXISTS
      (
         SELECT TOP (1) 1
         FROM [Codes].[Hospitals]
         WHERE   hc_type = 'P'
            AND hc_Code = @hospital_code
      )
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;
   RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4410A: [Admission Election] not (1), and [Hospital Number] of (< 4300)

Pseudocode

```
IF
(
        [Admission Election] (data item 19) <> 1 (Hospital)
        AND
        [Admission Election] (data item 19) <> 2 (Private)
)
AND
        [Hospital Number] (data item 01) < 4300
THEN
        ACCEPT submitted record
        PRINT error message 4410A: [Admission Election] not (1, or 2), and [Hospital Number]
        of (< 4300)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      ISNULL(@admission_election, '') NOT IN ('1', '2')
      AND EXISTS
      (
         SELECT TOP (1) 1
         FROM [Codes].[Hospitals]
         WHERE   hc_type IN ('O', 'H', 'M')
            AND hc_Code = @hospital_code
      )
   )
   BEGIN
      SET @IsInValid = 1 ;
   END ;

   RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4415: [Admission Category] not (4) INCOMPATIBLE WITH [Source Of Referral] of (A, or E)

Pseudocode

```
IF
(
        [Admission Category] (data item 15) <> 4 (Not applicable)
AND
        (
                [Source Of Referral] (data item 16) = A (Administrative admission)
                OR
                [Source Of Referral] (data item 16) = E (End of quarter reporting)
        )
)
THEN
        ACCEPT submitted values
        PRINT error message 4405: [Admission Category] not (4) INCOMPATIBLE WITH [Source Of
        Referral] of (A, or E)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Admission_Category <>    '4' and
Source_of_Referral in    ('A','E')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4420: [Admission Type] not (1, 2, or 3)

Pseudocode

```
IF
(
        [Admission Type] (data item 20) <> 1 (Ordinary)
        AND
        [Admission Type] (data item 20) <> 2 (Long stay: Acute)
        AND
        [Admission Type] (data item 20) <> 3 (Long stay: Non-acute care)
)
THEN
        ACCEPT submitted record
        PRINT error message 4420: [Admission Type] not (1, 2, or 3)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (ISNULL(@admission_type, '') NOT IN ('1', '2', '3'))
   BEGIN
      SET @IsInValid = 1 ;
   END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4425: [Hospital Number] of (>= 4302), and [Principal Diagnosis] contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of (1) = Unacceptable Principal Diagnosis

Pseudocode

```
IF
        [Hospital Number] (data item 01) >= 4302
AND
        [Principal Diagnosis] (data item 45) = ([Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] = 1)
THEN
        ACCEPT submitted values
        PRINT error message 4425: [Hospital Number] of (>= 4302), and [Principal Diagnosis]
        contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of
        (1) = Unacceptable Principal Diagnosis
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
hospital_code > 4300 and
principal_diagnosis in vw_Codes_ICD10AM icd_unacceptable_dx_flag '1' icd_code
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4426: [Hospital Number] of (>= 4302), and [Principal Diagnosis] or [Additional Diagnosis] contains [Diagnosis] in system reference table with [Unacceptable Diagnosis Flag] of (2) = Unacceptable Diagnosis

Pseudocode

```
IF
        [Hospital Number] (data item 01) >= 4302
AND
        [Principal Diagnosis] (data item 45) = ([Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] = 2)
        OR
        [Additional Diagnosis] (data item 46) =([Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] = 2)

THEN

        ACCEPT submitted values
        PRINT error message 4426: [Hospital Number] of (>= 4302), and [Principal Diagnosis] or
        [Additional Diagnosis] contains [Diagnosis] in system reference table with
        [Unacceptable Diagnosis Flag] of (2) = Unacceptable Diagnosis
```

Status

Active. Implemented 1 July 2022

Implementation

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4430: [Principal Diagnosis] of (N320) and [Additional Diagnosis] of (N40) MUST BE [Principal Diagnosis] of (N40) and [Additional Diagnosis] of (N320)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = N320
AND
        [Additional Diagnosis] (data item 46_001-46_099) = N40
THEN
        ACCEPT submitted values
        PRINT error message 4430: [Principal Diagnosis] of (N320) and [Additional Diagnosis]
        of (N40) MUST BE [Principal Diagnosis] of (N40) and [Additional Diagnosis] of (N320)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis = 'N320' and
dbo.ContainsStrings('|N40|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4435: [Principal Diagnosis] of (L8900, L8910, L8920, L8930, L894, L895, L896, L897, L898, or L8990) INCOMPATIBLE WITH [Additional Diagnosis] of (L8900, L8910, L8920, L8930, L894, L895, L896, L897, L898, or L8990)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = L8900, L8910, L8920, L8930, L894, L895, L896,
        L897, L898, or L8990
)
AND
(
        [Additional Diagnosis] (data item 46_001-46_099) = L8900, L8910, L8920, L8930, L894,
        L895, L896, L897, L898, or L8990)
THEN
        ACCEPT submitted values
        PRINT error message 4435: [Principal Diagnosis] of (L8900, L8910, L8920, L8930, L894,
        L895, L896, L897, L898, or L8990) INCOMPATIBLE WITH [Additional Diagnosis] of (L8900,
        L8910, L8920, L8930, L894, L895, L896, L897, L898, or L8990)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
   --DECLARE @s varchar(2500);
    --set @s= @principal_diagnosis+','+@additional_diagnosis;
    WITH diagnosisCTE AS
    (
        SELECT  DiagnosisCode   = val
        FROM dbo.ValidateDelimitedField (@principal_diagnosis+','+@additional_diagnosis, ',',
1, 30)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT   @IsInValid = CASE
                            WHEN
                      ( select count(*) FROM diagnosisCTE
                        WHERE   DiagnosisCode IN
('L8900','L8910','L8920','L8930','L894','L895','L896','L897','L898','L8990')
                      ) >=2
                      THEN 1
                      ELSE 0
                    END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4440: [Principal Diagnosis] or [Additional Diagnosis] of (E1011–E149) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (R73)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E1011-E149
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = R73
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1011-E149
        AND
        [Principal Diagnosis] (data item 45) = R73
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1011-E149
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = R73
)
THEN
        ACCEPT submitted values
        PRINT error message 4440: [Principal Diagnosis] or [Additional Diagnosis] of (E1011-
        E149) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (R73)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'E1011' and 'E149' or
dbo.ContainsStrings('|E1[0-4][1-9]%|',additional_diagnosis) > 0 ) and
(principal_diagnosis = 'R73' or
dbo.ContainsStrings('|R73|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4450: [Status Change Election] not (0, 1, or 2)

Pseudocode

```
IF
(
	[Status Change Election] (data item 22, 25, or 28) <> 0 (None)
	AND
	[Status Change Election] (data item 22, 25, or 28) <> 1 (Hospital)
	AND
	[Status Change Election] (data item 22, 25, or 28) <> 2 (Private)
)
THEN
	ACCEPT submitted record
	PRINT error message 4450: [Status Change Election] not (0, 1, or 2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
admission_election not in ('0','1','2') or
status_change_1_admission_election not in ('0','1','2') or
status_change_2_admission_election not in ('0','1','2') or
status_change_3_admission_election not in ('0','1','2')
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4460: [Status Change Type] not (0, 1, 2, or 3)

Pseudocode

```
IF
(
        [Status Change Type] (data item 23, 26, or 29) <> 0 (None)
        AND
        [Status Change Type] (data item 23, 26, or 29) <> 1 (Ordinary)
        AND
        [Status Change Type] (data item 23, 26, or 29) <> 2 (Long stay: Acute)
        AND
        [Status Change Type] (data item 23, 26, or 29) <> 3 (Long stay: Non-acute care)
)
THEN
        ACCEPT submitted record
        PRINT error message 4460: [Status Change Type] not (0, 1, 2, or 3)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
status_change_1_admission_type not in ('0','1','2','3') or
status_change_2_admission_type not in ('0','1','2','3') or
status_change_3_admission_type not in ('0','1','2','3')
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4470: [Status Change Effective Date] of invalid format

Pseudocode

```
IF
	[Status Change Effective Date] (data item 24, 27 and 30) is an invalid date
THEN
	ACCEPT submitted record
	PRINT error message 4470: [Status Change Effective Date] of invalid format
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.isddmmyyyy(status_change_1_date_effective_from_original,'00000000',0) = 0 or
dbo.isddmmyyyy(status_change_2_date_effective_from_original,'00000000',0) = 0 or
dbo.isddmmyyyy(status_change_3_date_effective_from_original,'00000000',0) = 0
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4474: [Status Change Election] same as [Admission Election], or [Status Change Type] same as [Admission Type]

Pseudocode

```
IF
	[Status Change Election] (data item 22, 25, or 28) = [Admission Election] (data item
	19)
AND
	[Status Change Type] (data item 23, 26, or 29) = [Admission Type] (data item 20)
THEN
	ACCEPT submitted record
	PRINT error message 4474: [Status Change Election] same as [Admission Election], or
	[Status Change Type] same as [Admission Type]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
[HealthValidator].[dbo].[ValidationSetExpressions] SET [description] = '[Status
Change Election] same as [Admission Election], or [Status Change Type] same as
[Admission Type] WHERE code = '4474'



BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    WITH statusChangeCTE AS
    (
      SELECT     sc.StatusChangeElection
           , sc.StatusChangeType
      FROM (   VALUES     (@status_change_1_admission_election,
@status_change_1_admission_type)
                , (@status_change_2_admission_election, @status_change_2_admission_type)
                , (@status_change_3_admission_election, @status_change_3_admission_type)
      ) sc(StatusChangeElection, StatusChangeType)
      WHERE   NULLIF(NULLIF(sc.StatusChangeElection, '0'), '') IS NOT NULL -- Make sure that
atlest one is provided
        OR   NULLIF(NULLIF(sc.StatusChangeType, '0'), '') IS NOT NULL
    )
    SELECT @IsInValid = CASE
                    WHEN   EXISTS (
                             SELECT TOP (1) 1
                             FROM statusChangeCTE sc
                             WHERE
                                (
                                   ISNULL(sc.StatusChangeElection, '') =
ISNULL(@admission_election, '')
                                   OR
                                   ISNULL(sc.StatusChangeElection, '') = '0'
                                )
                                AND
                                (
                                   ISNULL(sc.StatusChangeType, '') = ISNULL(@admission_type,
'')
                                   OR
                                   ISNULL(sc.StatusChangeType, '') = '0'
                                )
                          )
                    THEN 1
                    ELSE 0
                END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4480: [Status Change Type] of (1, 2, or 3), [Status Change Effective Date] is valid date, and [Status Change Election] of blank

Pseudocode

```
IF
(
        [Status Change Type] (data item 23, 26, or 29) = 1 (Ordinary)
        OR
        [Status Change Type] (data item 23, 26, or 29) = 2 (Long stay: Acute)
        OR
        [Status Change Type] (data item 23, 26, or 29) = 3 (Long stay: Non-acute care)
)
AND
        [Status Change Effective Date] (data item 24, 27, or 30) is valid date
AND
        [Status Change Election] (data item 22, 25, or 28) is blank
THEN
        ACCEPT submitted record
        PRINT error message 4480: [Status Change Type] of (1, 2, or 3), [Status Change
        Effective Date] is valid date, and [Status Change Election] of blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(status_change_1_admission_type in ('1','2','3') and
status_change_1_date_effective_from is not null  and
nullif(status_change_1_admission_election ,'') is null  )or
(status_change_2_admission_type in ('1','2','3') and
status_change_2_date_effective_from is not null  and
nullif(status_change_2_admission_election ,'') is null  )or
(status_change_3_admission_type in ('1','2','3') and
status_change_3_date_effective_from is not null  and
nullif(status_change_3_admission_election ,'') is null  )
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4490: [Status Change Election] of (1, or 2), and [Status Change Effective Date] is valid date, and [Status Change Type]

Pseudocode

```
IF
(
	[Status Change Election] (data item 22, 25, or 28) = 1 (Hospital)
	OR
	[Status Change Election] (data item 22, 25, or 28) = 2 (Private)
)
AND
	[Status Change Effective Date] (data item 24, 27, or 30) is valid date
AND
	[Status Change Type] (data item 23, 26, or 29) is blank
THEN
	ACCEPT submitted record
	PRINT error message 4490: [Status Change Election] of (1, or 2), and [Status Change
	Effective Date] is valid date, and [Status Change Type]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(status_change_1_admission_election in ('1','2') and
dbo.IsDDMMYYYY (status_change_1_date_effective_from_original,'00000000',0) > 0 and
(nullif(rtrim(status_change_1_admission_type ),'') is null  ))or
(status_change_2_admission_election in ('1','2') and
dbo.IsDDMMYYYY (status_change_2_date_effective_from_original,'00000000',0) > 0 and
(nullif(rtrim(status_change_2_admission_type ),'') is null  )) or
(status_change_3_admission_election in ('1','2') and
dbo.IsDDMMYYYY (status_change_3_date_effective_from_original ,'00000000',0) > 0 and
(nullif(rtrim(status_change_3_admission_type ),'') is null  ))
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4500: [Status Change Election] of (1, or 2), [Status Change Type] of (1, 2, or 3), and [Status Change Effective Date] of blank

Pseudocode

```
IF
(
        [Status Change Election] (data item 22, 25, or 28) = 1 (Hospital)
        OR
        [Status Change Election] (data item 22, 25, or 28) = 2 (Private)
)
AND
(
        [Status Change Type] (data item 23, 26, or 29) = 1 (Ordinary)
        OR
        [Status Change Type] (data item 23, 26, or 29) = 2 (Long stay: Acute)
        OR
        [Status Change Type] (data item 23, 26, or 29) = 3 (Long stay: Non-acute care)
)
AND
        [Status Change Effective Date] (data item 24, 27, or 30) is blank
THEN
        ACCEPT submitted record
        PRINT error message 4500: [Status Change Election] of (1, or 2), [Status Change Type]
        of (1, 2, or 3), and [Status Change Effective Date] of blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(status_change_1_admission_election in ('1','2') and
status_change_1_admission_type in ('1','2','3') and
(nullif(rtrim(status_change_1_date_effective_from_original),'') is null  or
status_change_1_date_effective_from_original = '00000000' )) or
(status_change_2_admission_election in ('1','2') and
status_change_2_admission_type in ('1','2','3') and
(nullif(rtrim(status_change_2_date_effective_from_original),'') is null  or
status_change_2_date_effective_from_original = '00000000' )) or
(status_change_3_admission_election in ('1','2') and
status_change_3_admission_type in ('1','2','3') and
(nullif(rtrim(status_change_3_date_effective_from_original),'') is null  or
status_change_3_date_effective_from_original = '00000000' ))
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4505: [Sex] of (3) NOT COMPATIBLE WITH Age at separation of (> 90 days)

Pseudocode

```
IF
	[Sex] (data item 08) = 3 (Indeterminate)
AND
	Age at admission > 90
THEN
	ACCEPT submitted values
	PRINT error message 4505: [Sex] of (3) NOT COMPATIBLE WITH Age at separation of (> 90
	days)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Sex <> '3' or
Age_in_Days_at_Separation < 90
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4506: [Sex] changed since last admission record

Pseudocode

```
IF
	[Sex] (data item 08) on current admission record <> [Sex] on previous admission record
THEN
	ACCEPT submitted values
	PRINT error message: 4506: [Sex] changed since last admission record
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_4506: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' + @sex +
' || '  + @separation_date + ' || ' + @separation_time + ' || ' + @record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for latest previous record for same Hosp + MRN that changes sex
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                ) -- Separation datetime of latest episode
of care
    AND      @record_type = '2' -- New
    AND      IFA.SEX <> @sex -- Logic of sex changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1

    -- Correction record... looking for latest previous record for same Hosp + MRN that
changes sex but not record being updated
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                AND      [SEP_DATETIME] <> DATEADD(MI,
CONVERT(INT,SUBSTRING(@separation_time, 3, 2)), DATEADD(HH,
CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME, SUBSTRING(@separation_date,
1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' + SUBSTRING(@separation_date, 5, 4)))) -
- Looking at other records than one being corrected
                                                ) -- Separation datetime of latest episode
of care but not record being updated
```

```
    --AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3,
2)), DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected,
NOTE: logically not required as already excluded by max separation date criteria
    AND      @record_type = '3' -- Correction
    AND      IFA.SEX <> @sex -- Logic of sex changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4510: [Admission Number] of blank, or not numeric

Pseudocode

```
IF
       [Admission Number] (data item 68) is blank, or is not numeric
THEN
       ACCEPT submitted record
       PRINT error message 4510: [Admission Number] of blank, or not numeric
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
isnumeric(Admission_Number) = 1 and
len(rtrim(Admission_Number)) = 8
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4520: [Veteran Card Number] REQUIRED

Pseudocode

```
IF
(
        [Veteran Card Number] (data item 69) is blank
)
THEN
        DEFAULT [Veteran Card Number] (data item 69) to (000000000)
        PRINT error message 4520: [Veteran Card Number] REQUIRED
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
nullif(rtrim(Veteran_Identification_Number),'') is  null
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4521: [Funding Source] changed from/to (4) and not (4) since last admission record

Pseudocode

```
IF
(
	[Funding Source] (data item 95) on current admission record = 04 (Veteran)
	AND
	[Funding Source] (data item 95) on previous admission record <> 04 (Veteran)
)
OR
(
	[Funding Source] (data item 95) current admission record <> 04 (Veteran)
	AND
	[Funding Source] (data item 95) on previous admission record = 04 (Veteran)
)
THEN
	ACCEPT submitted values
	PRINT error message 4521: [Funding Source] changed from/to (04) and not (04) since
	last admission record
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_4521: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@funding_source + ' || '  + @separation_date + ' || ' + @separation_time + ' || ' +
@record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for latest previous record for same Hosp + MRN that changes
funding source to/from DVA-04
    SELECT  @cnt = COUNT(*)
    FROM            [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                    SELECT  MAX([SEP_DATETIME])
                                                    FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                    WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                    AND      [hosp_code] = @hospital_code
                                                    AND      [mrn] = @patient_unit_number
                                                    ) -- Separation datetime of latest episode
of care
    AND      @record_type = '2' -- New
    AND      (
                    (
                    IFA.FUND_SOURCE NOT IN ('04','4')
                    AND
                    @funding_source IN ('04','4')
                    )
                OR
                    (
                    IFA.FUND_SOURCE IN ('04','4')
                    AND
                    @funding_source NOT IN ('04','4')
                    )
                ) -- Logic of DVA funding source changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
```

```
    -- Correction record... looking for latest previous record for same Hosp + MRN that
changes funding source to/from DVA-04 but not record being updated
    SELECT  @cnt = COUNT(*)
    FROM            [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                AND      [SEP_DATETIME] <> DATEADD(MI,
CONVERT(INT,SUBSTRING(@separation_time, 3, 2)), DATEADD(HH,
CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME, SUBSTRING(@separation_date,
1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' + SUBSTRING(@separation_date, 5, 4)))) -
- Looking at other records than one being corrected
                                                ) -- Separation datetime of latest episode
of care but not record being updated
    --AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3,
2)), DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected,
NOTE: logically not required as already excluded by max separation date criteria
    AND      @record_type = '3' -- Correction
    AND      (
                    (
                    IFA.FUND_SOURCE NOT IN ('04','4')
                    AND
                    @funding_source IN ('04','4')
                    )
                OR
                    (
                    IFA.FUND_SOURCE IN ('04','4')
                    AND
                    @funding_source NOT IN ('04','4')
                    )
                ) -- Logic of DVA funding source changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4530: [Veteran Card Type] of blank, and [Veteran Card Number] is valid

Pseudocode

```
IF
        [Veteran Card Number] (data item 69) is valid
AND
        [Veteran Card Type] (data item 31) is blank
THEN
        ACCEPT submitted record
        PRINT error message 4530: [Veteran Card Type] of blank, and [Veteran Card Number] is
        valid
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(veteran_card is null  or
veteran_card = '' ) and
nullif(Veteran_Identification_Number,'') is not null
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4540: [Veteran Card Type] not (G, W or N), and [Veteran Card Number] is valid

Pseudocode

```
IF
        [Veteran Card Number] (data item 69) is valid
AND
(

        [Veteran Card Type] (data item 31) <> G (Gold: DVA Health Card - For all conditions)
        AND
        [Veteran Card Type] (data item 31) <> W (White: DVA Health Card - For specific
        conditions)
        AND
        [Veteran Card Type] (data item 31) <> N (Not available)
)
THEN
        ACCEPT submitted record
        PRINT error message 4540: [Veteran Card Type] not (G, W or N), and [Veteran Card
        Number] is valid
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Isalphanumeric(Substring(Ltrim(veteran_identification_number),1,1) , 'A',0) > 0 and
nullif(rtrim(veteran_card),'') is not null  and
veteran_card Not in ('G','W','N')
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4551: [Procedure] from (2200700, 2200800, 9017902, 9203500, or 9203501) NOT COMPATIBLE WITH [Procedure] from (Block 569, or Block 570)

Pseudocode

```
IF
(
        [Procedure] (data item 49_001-49_099) = 2200700, 2200800, 9017902, 9203500, or 9203501
        AND
        [Procedure] (data item 49_001-49_099) = Block 569, or Block 570
)
THEN
        ACCEPT submitted values
        PRINT error message 4551: [Procedure] from (2200700, 2200800, 9017902, 9203500, or
        9203501) NOT COMPATIBLE WITH [Procedure] from (Block 569, or Block 570)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_procedure in ('2200700','2200800','9017902','9203500','9203501') or
dbo.ContainsStrings('|2200700|2200800|9017902|9203500|9203501|',additional_procedure) > 0 )
AND (principal_procedure in ('1388200','1388201','1388202','9220900','9220901','9220902') or
dbo.ContainsStrings('|1388200|1388201|1388202|9220900|9220901|9220902|',additional_procedure)
> 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4552: [Procedure] from (2200701, 2200801, or 9017906) NOT COMPATIBLE WITH [Procedure] from (Block 569)

Pseudocode

```
IF
(
        [Procedure] (data item 49_001-49_099) = 2200701, 2200801, or 2200801
        AND
        [Procedure] (data item 49_001-49_099) = Block 569
)
THEN
        ACCEPT submitted values
        PRINT error message 4552: [Procedure] from (2200701, 2200801, or 9017906) NOT
        COMPATIBLE WITH [Procedure] from (Block 569)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_procedure in ('2200701','2200801','9017906') or
dbo.ContainsStrings('|2200701|2200801|9017906|',additional_procedure) > 0 ) and
(principal_procedure in ('1388200','1388201','1388202') or
dbo.ContainsStrings('|1388200|1388201|1388202|',additional_procedure) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4553: [Procedure] from (9017905) NOT COMPATIBLE WITH [Procedure] from (Block 570)

Pseudocode

```
IF
        [Procedure] (data item 49_001-49_099) = 9017905
AND
        [Procedure] (data item 49_001-49_099) = Block 570
THEN
        ACCEPT submitted values
        PRINT error message 4553: [Procedure] from (9017905) NOT COMPATIBLE WITH [Procedure]
        from (Block 570)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_procedure in ('9017905') or
dbo.ContainsStrings('|9017905|',additional_procedure) > 0 ) and
(principal_procedure in ('9220900','9220901','9220902') or
dbo.ContainsStrings('|9220900|9220901|9220902|',additional_procedure) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4560: [Contracted Service Hospital Number] = [Hospital Number], or [Contracted Service Hospital Number] not in system reference table

Pseudocode

```
IF
       [Contracted Service Hospital Number] (data item 65) = [Hospital Number] (data item 01)
OR
       [Contracted Service Hospital Number] (data item 65) not in system reference table
THEN
       ACCEPT submitted record
       PRINT error message 4560: [Contracted Service Hospital Number] = [Hospital Number], or
       [Contracted Service Hospital Number] not in system reference table
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
provider_of_contract_services_hospital_number = '0000' or
provider_of_contract_services_hospital_number = codes.hospitalshc_Code and
provider_of_contract_services_hospital_number <> Hospital_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4561: [Source Of Referral] not (7) and [Contracted Service Hospital Number] not in system reference table, [Contract Hospital Patient Unit Record Number] of (0000000000), or [Contracted Service Admission Date] is not a valid date

Pseudocode

```
IF
        [Source Of Referral] (data item 16) <> 7 (Contracted service)
AND
(
        [Contracted Service Hospital Number] (data item 65) is in system reference table
        OR
        [Contracted Service Patient Unit Record Number] (data item 63) <> 0000000000
        OR
        [Contracted Service Admission Date] (data item 64) is a valid date
)
AND
(
        [Contracted Service Hospital Number] (data item 65) is not in system reference table
        OR
        [Contracted Service Patient Unit Record Number] (data item 63) = 0000000000
        OR
        [Contracted Service Admission Date] (data item 64) is not a valid date
)
THEN
        ACCEPT submitted values
        PRINT error message 4561: [Source Of Referral] not (7) and [Contracted Service
        Hospital Number] not in system reference table, [Contract Hospital Patient Unit Record
        Number] of (0000000000), or [Contracted Service Admission Date] is not a valid date
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(source_of_referral <> '7' and
(ISNUMERIC(contract_provider_hospital_patient_unit_number) = 0 or
dbo.isddmmyyyy(date_admitted_to_contract_provider_hospital_original,'00000000',0) = 0 ) or
(provider_of_contract_services_hospital_number not in codes.hospitalshc_Code and
provider_of_contract_services_hospital_number <> '0000' ))
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4562: [Source Of Referral] of (7) REQUIRES [Contracted Service Hospital Number]

Pseudocode

```
IF
        [Source Of Referral] (data item 16) = 7 (Contracted service)
AND
        [Contracted Service Hospital Number] (data item 65) not in system reference table
THEN
        ACCEPT submitted values
        PRINT error message: 4562: [Source Of Referral] of (7) REQUIRES [Contracted Service
        Hospital Number]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Source_of_Referral = '7' and
(provider_of_contract_services_hospital_number = '0000' or
nullif(provider_of_contract_services_hospital_number,'') is null  or
provider_of_contract_services_hospital_number not in codes.hospitalshc_Code )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4570: [Contracted Service Hospital Number] = [Hospital Number] AND [Contracted Service Patient Unit Record Number] = [Patient Unit Record Number]

Pseudocode

```
IF
        [Contracted Service Hospital Number] (data item 65) = [Hospital Number] (data item 01)
AND
        [Contracted Service Patient Unit Record Number] (data item 63) = [Patient Unit Record
        Number] (data item 03)
THEN
        ACCEPT submitted record
        PRINT error message 4570: [Contracted Service Hospital Number] = [Hospital Number] AND
        [Contracted Service Patient Unit Record Number] = [Patient Unit Record Number]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInvalid INT,
   @FormatPUN varchar(10),
   @FormatCPHPUN varchar(10);
   SET @FormatCPHPUN =
nullif(rtrim(ltrim(@contract_provider_hospital_patient_unit_number)),'')
   SET @FormatPUN = nullif(rtrim(ltrim(@Patient_Unit_Number)),'')
   SELECT @IsInvalid = CASE
   WHEN @FormatCPHPUN = @FormatPUN
      --OR LEN(@FormatCPHPUN) <> 10
      --OR ISNUMERIC(@FormatCPHPUN) = 0
      OR (ISNUMERIC(@FormatCPHPUN) = 0 OR LEN(@FormatCPHPUN) <> 10)
      THEN 1
      ELSE 0
   END
RETURN @IsInvalid
END
```

Issue

None.

Update data quality check

Logic updated.To check for rare scenario where a patient may be provided with the same [Patient Unit Record Number] at more than one [Hospital Number].

Check for invalid [Contracted Service Patient Unit Record Number] has been removed

Updated December 2021 to remove default value.

Result

None.

Action

None.

4571: [Contracted Service Patient Unit Record Number] is invalid

Pseudocode

```
IF
       [Contracted Service Patient Unit Record Number] (data item 63) is an invalid format
THEN
       ACCEPT submitted record
       PRINT error message 4571: [Contracted Service Patient Unit Record Number] is invalid
```

Status

Active.

Implementation

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4580: [Contracted Service Admission Date] is an invalid date, [Contracted Service Admission Date] < [Admission Date], or [Contracted Service Admission Date] > [Separation Date]

Pseudocode

```
IF
        [Contracted Service Admission Date] (data item 64) is an invalid date
        OR
        (
        [Contracted Service Admission Date] (data item 64) < [Admission Date] (data item 21)
        OR
        [Contracted Service Admission Date] (data item 64) > [Separation Date] (data item 43)
        )
THEN
        ACCEPT submitted record
        PRINT error message 4580: [Contracted Service Admission Date] is an invalid date,
        [Contracted Service Admission Date] < [Admission Date], or [Contracted Service
        Admission Date] > [Separation Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(date_admitted_to_contract_provider_hospital < admission_date or
date_admitted_to_contract_provider_hospital > Separation_Date ) or
dbo.isddmmyyyy(date_admitted_to_contract_provider_hospital_original,'00000000',0) = 0
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4580A: [Contracted Service Admission Date] of (00000000) and [Contracted Service Hospital Number] of not blank DEFAULTS [Contracted Service Admission Date] to blank

Pseudocode

```
IF
(
        [Contracted Service Admission Date] (data item 64) = 00000000
        AND
        [Contracted Service Hospital Number] (data item 65) is not blank
)
THEN
        DEFAULT [Contracted Service Admission Date] (data item 64) to blank
        PRINT error message 4580A: [Contracted Service Admission Date] of (00000000) and
        [Contracted Service Hospital Number] of not blank DEFAULTS [Contracted Service
        Admission Date] to blank
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
date_admitted_to_contract_provider_hospital_original =    '00000000' and
date_admitted_to_contract_provider_hospital is not null
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4600: [Principal Diagnosis] or [Additional Diagnosis] of (E0921-E099) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (E1001-E149)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E0921–E099
        AND
        [Additional Diagnosis] (data item 46_001–46_099) = E1001–E149
)
OR
(
        [Principal Diagnosis] (data item 45) = E1001–E149
        OR
        [Additional Diagnosis] (data item 46_001–46_099) = E0921–E099
)
OR
(
        [Additional Diagnosis] (data item 46_001–46_099) = E1001–E149
        OR
        [Additional Diagnosis] (data item 46_001–46_099) = E0921–E099
)
THEN
        ACCEPT submitted values
        PRINT error message 4600: [Principal Diagnosis] or [Additional Diagnosis] of (E0921-
        E099) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (E1001-
        E149)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis BETWEEN 'E0921' AND 'E099'
                                   OR dbo.ContainsStrings('|E092[1-
9]|',@additional_diagnosis) > 0
                               )
                               AND
                               (
                                   @principal_diagnosis BETWEEN 'E1001' AND 'E149'
                                   OR dbo.ContainsStrings('|E10[0-
9]%|',@additional_diagnosis) > 0
                               )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4610: [Leave From Date] is valid, and [Leave From Time] is an invalid time or blank

Pseudocode

```
IF
(
	[Leave From Time] (data items 73, 75, 77, or 79) is an invalid time
	OR
	[Leave From Time] (data items 73, 75, 77, or 79) is blank
)
AND
	[Leave From Date] (data item 32, 34, 36, or 38) is a valid date
THEN
	ACCEPT submitted values
	PRINT error message 4610: [Leave From Date] is valid, and [Leave From Time] is an
	invalid time or blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
((leave_from_time_1_original = '0000' or
dbo.IsHHMM(leave_from_time_1_original,'0000',0) = 0 )and
(leave_from_date_1 is not null  )) or
((leave_from_time_2_original = '0000' or
dbo.IsHHMM(leave_from_time_2_original,'0000',0) = 0 )and
(leave_from_date_2 is not null  ))or
((leave_from_time_3_original = '0000' or
dbo.IsHHMM(leave_from_time_3_original,'0000',0) = 0 )and
(leave_from_date_3 is not null  ))or
((leave_from_time_4_original = '0000' or
dbo.IsHHMM(leave_from_time_4_original,'0000',0) = 0 )and
(leave_from_date_4 is not null  ))
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4620: [Leave To Date] is valid, and [Leave To Time] is an invalid time or blank

Pseudocode

```
IF
(
	[Leave To Time] (data items 74, 76, 78, or 80) is an invalid time
	OR
	[Leave To Time] (data items 74, 76, 78, or 80) is blank
)
AND
	[Leave To Date] (data item 33, 35, 37, or 39) is a valid date
THEN
	ACCEPT submitted values
	PRINT error message 4620: [Leave To Date] is valid, and [Leave To Time] is an invalid
	time or blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
((leave_to_time_1_original = '0000' or
dbo.IsHHMM(leave_to_time_1_original,'0000',0) = 0 )and
(leave_to_date_1 is not null  ))or
((leave_to_time_2_original = '0000' or
dbo.IsHHMM(leave_to_time_2_original,'0000',0) = 0 )and
(leave_to_date_2 is not null  ))or
((leave_to_time_3_original = '0000' or
dbo.IsHHMM(leave_to_time_3_original,'0000',0) = 0 )and
(leave_to_date_3 is not null  ))or
((leave_to_time_4_original = '0000' or
dbo.IsHHMM(leave_to_time_4_original,'0000',0) = 0 )and
(leave_to_date_4 is not null  ))
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4625: Length of leave of (> 7 consecutive days) NOT COMPATIBLE WITH [Legal Status] not (1)

Pseudocode

```
IF
        Length of leave > 7 consecutive days
AND
        [Legal Status] <> 1 (Involuntary)
THEN
        ACCEPT submitted value
        PRINT error message 4625: Length of leave of (> 7 consecutive days) NOT COMPATIBLE
        WITH [Legal Status] not (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   DATEDIFF(DAY,@leave_from_date_1, @leave_to_date_1) > 7
                                   OR DATEDIFF(DAY,@leave_from_date_2, @leave_to_date_2) > 7
                                   OR DATEDIFF(DAY,@leave_from_date_3, @leave_to_date_3) > 7
                                   OR DATEDIFF(DAY,@leave_from_date_4, @leave_to_date_4) > 7
                               )
                               AND @legal_status <> 1
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4630: [Unplanned Readmission] not (1, 2, or 3) DEFAULTS [Unplanned Readmission] to (3)

Pseudocode

```
IF
(
        [Unplanned Readmission] <> 1
        AND
        [Unplanned Readmission] <> 2
        AND
        [Unplanned Readmission] <> 3
)
THEN
        DEFAULT [Unplanned Readmission] to (3)
        PRINT error message 4630: [Unplanned Readmission] not (1, 2, or 3) DEFAULTS [Unplanned
        Readmission] to (3)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    IF ISNULL(NULLIF(@Unplanned_Readmission, ''), '1') NOT IN ('1', '2', '3')
   BEGIN
      SET @IsInValid = 1 ;
   END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4640: [Hospital Number] not (0300), and [Mental Health Linking Number] = [Patient Unit Record Number] or is invalid format

Pseudocode

```
IF
(
	[Hospital Number] (data item 01) <> 0300
)
AND
(
	[Mental Health Linking Number] (data item 83) is an invalid format
	OR
	[Mental Health Linking Number] (data item 83) = [Patient Unit Record Number] (data
	item 03)
)
THEN
	ACCEPT submitted values
	PRINT error message 4640: [Hospital Number] not (0300), and [Mental Health Linking
	Number] = [Patient Unit Record Number] or is invalid format
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Hospital_Code not in ('0300') and
Mental_Health_Linking_Variable > '0' and
Mental_Health_Linking_Variable = Patient_Unit_Number
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4641: [Clinical Unit] of (78, 79, 80, 85, 86, or 95), or [Principal Diagnosis] in system reference table with [Mental Health Diagnosis Flag] of (Y) REQUIRES [Episode Of Care] of (I, J, K, or L)

Pseudocode

```
IF
(
	[Clinical Unit] (data item 2) = 78, 79, 80, 85, 86, or 95
	OR [Principal Diagnosis] = ([Diagnosis] in system reference table with [Mental Health
	Diagnosis Flag] = Y)
)
AND
(
	[Episode Of Care] (data item 51) <> I (Mental health acute)
	AND
	[Episode Of Care] (data item 51) <> J (Mental health maintenance care)
	AND
	[Episode Of Care] (data item 51) <> K (Mental health rehabilitation)
	AND
	[Episode Of Care] (data item 51) <> L (Mental health psychogeriatric care)
)
THEN
	ACCEPT submitted record
	PRINT error message 4641: [Clinical Unit] of (78, 79, 80, 85, 86, or 95), or
	[Principal Diagnosis] in system reference table with [Mental Health Diagnosis Flag] of
	(Y) REQUIRES [Episode Of Care] of (I, J, K, or L)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInValid  SMALLINT = 0 ;
   SELECT  @IsInValid = CASE WHEN
   (
    --@clinical_code NOT IN ('78','79','80','85','86','95')
    SUBSTRING(@clinical_code, PATINDEX('%[^0]%', @clinical_code+'.'), LEN(@clinical_code)) IN
('78','79','80','85','86','95')
      OR (
          @principal_diagnosis IN ('Z004','Z046','Z133')
            OR LEFT(@principal_diagnosis,2) IN ('F1','F2','F3','F4','F5','F6','F9')
         )
   )
     AND @episode_of_care NOT IN ('I','J','K','L')
     AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
     --AND REPLACE(@separation_date,'-','') >= '20170101' -- UAT Version
     AND REPLACE(@separation_date,'-','') >= '20170701'  -- PROD Version
   THEN 1
   ELSE 0
   END;
   RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Error description updated 9 December 2021

Result

None.

Action

None.

4643: [Episode Of Care] of (I, J, K, or L) REQUIRES [Clinical Unit] of (78, 79, 80, 85, 86, or 95), or [Principal Diagnosis] in system reference table with [Mental Health Diagnosis Flag] of (Y)

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) = I (Mental health acute)
        OR
        [Episode Of Care] (data item 51) = J (Mental health maintenance care)
        OR
        [Episode Of Care] (data item 51) = K (Mental health rehabilitation)
        OR
        [Episode Of Care] (data item 51) = L (Mental health psychogeriatric care)
)
AND
(
        [Clinical Unit] (data item 2) <> 78, 79, 80, 85, 86, or 95
        AND
        [Principal Diagnosis] = ([Diagnosis] in system reference table with [Mental Health
        Diagnosis Flag] = Y)
)
THEN
        ACCEPT submitted record
        PRINT error message 4643: [Episode Of Care] of (I, J, K, or L) REQUIRES [Clinical
        Unit] of (78, 79, 80, 85, 86, or 95), or [Principal Diagnosis] in system reference
        table with [Mental Health Diagnosis Flag] of (Y)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInValid  SMALLINT = 0 ;
   SELECT  @IsInValid = CASE WHEN @episode_of_care IN ('I','J','K','L') -- July1'17
Implementation
     AND (
          SUBSTRING(@clinical_code, PATINDEX('%[^0]%', @clinical_code+'.'),
LEN(@clinical_code)) NOT IN ('78','79','80','85','86','95')
            AND @principal_diagnosis NOT IN ('Z004','Z046','Z133')
            AND LEFT(@principal_diagnosis,2) NOT IN ('F1','F2','F3','F4','F5','F6','F9') --
That is, F codes excluding 'F0','F7','F8'
         )
     AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
     AND REPLACE(@separation_date,'-','') >= '20170101' -- UAT
     --AND REPLACE(@separation_date,'-','') >= '20170701' -- PROD Version
   THEN 1 ELSE 0
   END;
   RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Error description updated 9 December 2021

Result

None.

Action

None.

4648: [Principal Diagnosis] of (Z718) DOES NOT REQUIRE [Additional Diagnosis] of (E1001-E149)

Pseudocode

```
IF
	[Principal Diagnosis] (data item 45) = Z718
AND
	[Additional Diagnosis] (data item 46_001-46_099) = E1001-E149
THEN
	ACCEPT submitted values
	PRINT error message 4648: [Principal Diagnosis] of (Z718) DOES NOT REQUIRE [Additional
	Diagnosis] of (E1001-E149)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Principal_Diagnosis = 'Z718' and
dbo.ContainsStrings('|E[1001-149]|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4649: [Principal Diagnosis] of (E1001-E149) and [Additional Diagnosis] of (Z718) REQUIRES [Procedure] from (9555014)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E1001-E149
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z718
)
AND
        [Procedure] (data item 49_001-49_099) <> 9555014
THEN
        ACCEPT
        PRINT error message 4649: [Principal Diagnosis] of (E1001-E149) and [Additional
        Diagnosis] of (Z718) REQUIRES [Procedure] from (9555014)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_procedure <> '9555014' and
dbo.ContainsStrings('|9555014|',additional_procedure) = 0 ) and
principal_diagnosis between 'E1001' and 'E149' and
dbo.ContainsStrings('|Z718|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4650: [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1100-E1199, E1300-E1399, E1400-E1499, or O2440-O2449)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E1000-E1099
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1100-E1199, E1300-E1399, E1400-
        E1499, or O2440-O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099
        AND
        [Principal Diagnosis] (data item 45) = E1100-E1199, E1300-E1399, E1400-E1499, or
        O2440-O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1100-E1199, E1300-E1399, E1400-
        E1499, or O2440-O2449
)
THEN
        ACCEPT submitted values
        PRINT error message 4650: [Principal Diagnosis] or [Additional Diagnosis] of (E1000-
        E1099) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1100-
        E1199, E1300-E1399, E1400-E1499, or O2440-O2449)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis LIKE 'E10%'
                                   OR
                                   dbo.ContainsStrings('|E10%|',@additional_diagnosis ) > 0
                               )
                               AND
                               (
                                   (
                                       @principal_diagnosis LIKE 'E11%'
                                       OR @principal_diagnosis LIKE 'E13%'
                                       OR @principal_diagnosis LIKE 'E14%'
                                       OR @principal_diagnosis LIKE 'O244%'
                                   )
                                   OR

dbo.ContainsStrings('|E11%|E13%|E14%|O244%|',@additional_diagnosis ) > 0
                                   )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4651: [Principal Diagnosis] or [Additional Diagnosis] of (E1100-E1199) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1300-E1399, E1400-E1499, or O2440-O2449)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E1100-E1199
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1300-E1399, E1400-
        E1499, or O2440-O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1100-E1199
        AND
        [Principal Diagnosis] (data item 45) = E1000-E1099, E1300-E1399, E1400-E1499, or
        O2440-O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1100-E1199
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1300-E1399, E1400-
        E1499, or O2440-O2449
)
THEN
        ACCEPT submitted values
        PRINT error message 4651: [Principal Diagnosis] or [Additional Diagnosis] of (E1100-
        E1199) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-
        E1099, E1300-E1399, E1400-E1499, or O2440-O2449)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis LIKE 'E11%'
                                   OR
                                   dbo.ContainsStrings('|E11%|',@additional_diagnosis ) > 0
                               )
                               AND
                               (
                                   (
                                       @principal_diagnosis LIKE 'E10%'
                                       OR @principal_diagnosis LIKE 'E13%'
                                       OR @principal_diagnosis LIKE 'E14%'
                                       OR @principal_diagnosis LIKE 'O244%'
                                   )
                                   OR

dbo.ContainsStrings('|E10%|E13%|E14%|O244%|',@additional_diagnosis ) > 0
                                   )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4652: [Principal Diagnosis] or [Additional Diagnosis] of (E1300-E1399) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1100-E1199, E1400-E1499, or O2440-O2449)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E1300-E1399
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1100-E1199, E1400-
        E1499, O2440-O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1300-E1399
        AND
        [Principal Diagnosis] (data item 45) = E1000-E1099, E1100-E1199, E1400-E1499, O2440-
        O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1300-E1399
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1100-E1199, E1400-
        E1499, O2440-O2449
)
THEN
        ACCEPT submitted values
        PRINT error message 4652: [Principal Diagnosis] or [Additional Diagnosis] of (E1300-
        E1399) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-
        E1099, E1100-E1199, E1400-E1499, or O2440-O2449)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis LIKE 'E13%'
                                   OR
                                   dbo.ContainsStrings('|E13%|',@additional_diagnosis ) > 0
                               )
                               AND
                               (
                                   (
                                       @principal_diagnosis LIKE 'E10%'
                                       OR @principal_diagnosis LIKE 'E11%'
                                       OR @principal_diagnosis LIKE 'E14%'
                                       OR @principal_diagnosis LIKE 'O244%'
                                   )
                                   OR

dbo.ContainsStrings('|E10%|E11%|E14%|O244%|',@additional_diagnosis ) > 0
                                   )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Error message updated December 2021.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4653: [Principal Diagnosis] or [Additional Diagnosis] of (E1400-E1499) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1100-E1199, E1300-E1399, or O2440-O2449)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = E1400-E1499
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1100-E1199, E1300-
        E1399, or O2440-O2449)
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1400-E1499
        AND
        [Principal Diagnosis] (data item 45) = E1000-E1099, E1100-E1199, E1300-E1399, or
        O2440-O2449
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = E1400-E1499
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1100-E1199, E1300-
        E1399, or O2440-O2449)
)
THEN
        ACCEPT submitted values
        PRINT error message 4653: [Principal Diagnosis] or [Additional Diagnosis] of (E1400-
        E1499) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-
        E1099, E1100-E1199, E1300-E1399, or O2440-O2449)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis LIKE 'E14%'
                                   OR
                                   dbo.ContainsStrings('|E14%|',@additional_diagnosis ) > 0
                               )
                               AND
                               (
                                   (
                                       @principal_diagnosis LIKE 'E10%'
                                       OR @principal_diagnosis LIKE 'E11%'
                                       OR @principal_diagnosis LIKE 'E13%'
                                       OR @principal_diagnosis LIKE 'O244%'
                                   )
                                   OR

dbo.ContainsStrings('|E10%|E11%|E13%|O244%|',@additional_diagnosis ) > 0
                                   )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4654: [Principal Diagnosis] or [Additional Diagnosis] of (O2440-O2449) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-E1099, E1100-E1199, E1300-E1399, or E1400-E1499)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O2440-O2449
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1100-E1199, E1300-
        E1399, E1400-E1499
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O2440-O2449
        AND
        [Principal Diagnosis] (data item 45) = E1000-E1099, E1100-E1199, E1300-E1399, E1400-
        E1499
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O2440-O2449
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = E1000-E1099, E1100-E1199, E1300-
        E1399, E1400-E1499
)
THEN
        ACCEPT submitted values
        PRINT error message 4654: [Principal Diagnosis] or [Additional Diagnosis] of (O2440-
        O2449) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (E1000-
        E1099, E1100-E1199, E1300-E1399, or E1400-E1499)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis LIKE 'O244%'
                                   OR
                                   dbo.ContainsStrings('|O244%|',@additional_diagnosis ) > 0
                               )
                               AND
                               (
                                   (
                                       @principal_diagnosis LIKE 'E10%'
                                       OR @principal_diagnosis LIKE 'E11%'
                                       OR @principal_diagnosis LIKE 'E13%'
                                       OR @principal_diagnosis LIKE 'E14%'
                                   )
                                   OR

dbo.ContainsStrings('|E10%|E11%|E13%|E14%|',@additional_diagnosis ) > 0
                                   )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4655: [Principal Diagnosis] or [Additional Diagnosis] of (S1410-S1413) REQUIRES [Additional Diagnosis] from (S1470-S1478, or S2470-S2477)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = S1410-S1413
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> S1470-S1478, or S2470-S2477
)
OR
        [Additional Diagnosis] (data item 46_001-46_099) = S1410-S1413
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> S1470-S1478, or S2470-S2477
)
THEN
        ACCEPT submitted values
        PRINT error message 4655: [Principal Diagnosis] or [Additional Diagnosis] of (S1410-
        S1413) REQUIRES [Additional Diagnosis] from (S1470-S1478, or S2470-S2477)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(dbo.ContainsStrings('|S141[0-3]|',additional_diagnosis) > 0 or
principal_diagnosis between 'S1410' and 'S1413' ) and
(dbo.ContainsStrings('|S147[0-8]|',additional_diagnosis) = 0 and
dbo.ContainsStrings('|S247[0-7]|',additional_diagnosis) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4656: [Principal Diagnosis] or [Additional Diagnosis] of (S2410-S2412) REQUIRES [Additional Diagnosis] of (S2470-S2477, or S3470-S3476)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = S2410-S2412
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> S2470-S2477, or S3470-S3476)
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = S2410-S2412
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> S2470-S2477, or S3470-S3476)
)
THEN
        ACCEPT submitted values
        PRINT error message 4656: [Principal Diagnosis] or [Additional Diagnosis] of (S2410-
        S2412) REQUIRES [Additional Diagnosis] of (S2470-S2477, or S3470-S3476)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(dbo.ContainsStrings('|S241[0-2]|',additional_diagnosis) > 0 or
Principal_Diagnosis between 'S2410' and 'S2412' )and
(dbo.ContainsStrings('|S2470|S2471|S2472|S2473|S2474|S2475|S2476|S2477|S3470|S3471|S3472|S3473
|S3474|S3475|S3476|',additional_diagnosis) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4657: [Principal Diagnosis] or [Additional Diagnosis] of (S341) REQUIRES [Additional Diagnosis] of (S3470-S3476)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = S341
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> S3470-S3476
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = S341
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> S3470-S3476
)
THEN
        ACCEPT submitted values
        PRINT error message 4657: [Principal Diagnosis] or [Additional Diagnosis] of (S341)
        REQUIRES [Additional Diagnosis] of (S3470-S3476)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(dbo.ContainsStrings('|S341|',additional_diagnosis) > 0 or
principal_diagnosis = 'S341' ) and
(dbo.ContainsStrings('|S3470|S3471|S3472|S3473|S3474|S3475|S3476|',additional_diagnosis) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4658: Mic’surg Anastomo’s code required + free flap

Pseudocode

```
IF Procedures (data item 49 = 4556200 or 4556201
AND Procedures (data item 49 ≠ 4550200 or 4550201 or 4550202
THEN ACCEPT submitted value
AND PRINT error message #4658 MIC’SURG ANASTOMO’S CDE REQ’D + FREE FLAP
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4659: [Procedure] from (Block 1907) REQUIRES [Procedure] from (9251410-9251599)

Pseudocode

```
IF
        [Procedure] (data item 49_001-49_099) = Block 1907
AND
        [Procedure] (data item 49_001-49_099) <> 9251410-9251599
THEN
        ACCEPT submitted values
        PRINT error message 4659: [Procedure] from (Block 1907) REQUIRES [Procedure] from
        (9251410-9251599)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(Principal_Procedure in vw_Codes_ICD10AM icd_Proc_Block '1907' icd_Code or
additional_procedure in vw_Codes_ICD10AM icd_Proc_Block '1907' icd_Code ) and
(Principal_Procedure not between '9251410' and '9251599' and
dbo.ContainsStrings('|925141[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925142[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925143[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925144[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925145[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925146[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925147[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925148[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925149[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925150[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925151[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925152[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925153[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925154[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925155[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925156[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925157[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925158[0-9]|',additional_procedure) = 0 and
dbo.ContainsStrings('|925159[0-9]|',additional_procedure) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4660: [Additional Diagnosis] of (Z8610 – Z8618) NOT COMPATIBLE WITH [Additional Diagnosis] of (U073 or U074)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46) = Z8610 – Z8618
AND
        [Additional Diagnosis] (data item 46) = U073 or U074

THEN
        ACCEPT submitted record
        PRINT error message 4660: [Additional Diagnosis] of (Z8610 – Z8618) NOT COMPATIBLE
        WITH [Additional Diagnosis] of (U073 or U074)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

Updated May 2023. Replaced data quality check 2780.

Result

None.

Action

4661: [Additional Diagnosis] of (I698, or Z479) and [Hospital Number] of (0001-0500) NOT COMPATIBLE WITH [Principal Diagnosis] of (Z500-Z501, or Z504-Z509)

Pseudocode

```
IF
(
	[Additional Diagnosis] (data item 46_001-46_099) = I698, or Z479
AND
	(
		[Hospital Number] (data item 1) >= 0001
		AND
		[Hospital Number] (data item 1) <= 0500
	)
AND
	[Principal Diagnosis] (data item 45) = Z500-Z501, or Z504-Z509
)
THEN
	ACCEPT submitted values
	PRINT error message 4661: [Additional Diagnosis] of (I698, or Z479) and [Hospital
	Number] of (0001-0500) NOT COMPATIBLE WITH [Principal Diagnosis] of (Z500-Z501, or
	Z504-Z509)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid INT = 0 ;
/*   DECLARE @VarOutput VARCHAR(2000)
   SET @VarOutPut=@additional diagnosis
   EXEC xp_logevent 59999,@VarOutPut */
    WITH AddDiagCTE AS
    (
       SELECT  AddDiag = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 26)
        WHERE NULLIF(val, '') IS NOT NULL
        and val in ('I698','Z479')
   )
    SELECT @IsInValid = CASE
                            WHEN

                            @hospital_code between '0001' and '0500' AND
ISNULL(@episode_of_care,'') = '7'
                            AND
                            (@principal_diagnosis in ('Z500','Z501') or @principal_diagnosis
between 'Z504' and 'Z509')
                               --and (rtrim(ltrim(isnull(@additional_diagnosis,'')))) not like
'I698%' and rtrim(ltrim(isnull(@additional_diagnosis,'')))) not like 'Z479%')
                               --and rtrim(ltrim(isnull(@additional_diagnosis,'')))) not in
('I698','Z479')
                               AND NOT EXISTS (SELECT TOP 1 AddDiag FROM AddDiagCTE)
                            THEN 1
                            ELSE 0
                        END
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4662: [Additional Diagnosis] of (B230, R75, or Z21) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (B20, B21, B22, B238, B24, R75, or Z21)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = B230, R75, or Z21
        AND
        (
        [Principal Diagnosis] (data item 45)

        OR [Additional Diagnosis] (data item 46_001-46_099) = B20, B21, B22, B238, B24, R75,
        or Z21
        )


THEN
        ACCEPT submitted values
        PRINT error message 4662: [Additional Diagnosis] of (B230, R75, or Z21) NOT COMPATIBLE
        WITH [Principal Diagnosis] or [Additional Diagnosis] of (B20, B21, B22, B238, B24,
        R75, or Z21)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis in ('R75','Z21','B20','B21','B22','B238','B24') and
dbo.ContainsStrings('|B230|R75|Z21|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

Updated December 2022 to remove Principal diagnosis B230 and amalgamated with data quality check 4663.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4663: [Additional Diagnosis] of (B230, R75, or Z21) NOT COMPATIBLE WITH [Additional Diagnosis] of (B20, B21, B22, B238, or B24)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = B230, R75, or Z21
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = B20, B21, B22, B238, or B24
THEN
        ACCEPT submitted values
        PRINT error message 4663: [Additional Diagnosis] of (B230, R75, or Z21) NOT COMPATIBLE
        WITH [Additional Diagnosis] of (B20, B21, B22, B238, or B24)
```

Status

Inactive.

Implementationwell

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.ContainsStrings('|B230|R75|Z21|',additional_diagnosis) > 0 and
dbo.ContainsStrings('|B20|B21|B22|B238|B24|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

Updated December 2022. Amalgamated with data quality check 4662.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4664: [Principal Diagnosis] or [Additional Diagnosis] of (B21) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (C000-C969)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = B21
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> C000-C969
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = B21
        AND
        [Principal Diagnosis] (data item 45) <> C000-C969
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = B21
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> C000-C969
)
THEN
        ACCEPT submitted values
        PRINT error message 4664: [Principal Diagnosis] or [Additional Diagnosis] of (B21)
        REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (C000-C969)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid = CASE
                           WHEN
                           (
                               (
                                   @principal_diagnosis = 'B21'
                                   OR dbo.ContainsStrings('|B21|',@additional_diagnosis) > 0
                                )
                               AND
                               (
                                   dbo.ContainsStrings('|C[0-9][0-6][0-
9]|',@additional_diagnosis) > 0
                                   OR dbo.ContainsStrings('|C[0-9][0-6][0-
9]|',@principal_diagnosis) > 0
                               )
                           )
                           THEN 1
                           ELSE 0
                       END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4665: [Principal Diagnosis] of (Z080-Z089) NOT COMPATIBLE WITH [Additional Diagnosis] of (C000-C969)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z080-Z089
AND
        [Additional Diagnosis] (data item 46_001-46_099) = C000-C969
THEN
        ACCEPT submitted values
        PRINT error message 4665: [Principal Diagnosis] of (Z080-Z089) NOT COMPATIBLE WITH
        [Additional Diagnosis] of (C000-C969)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis like ('Z08%') and
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) between 'C000' and 'C969'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4666: [Principal Diagnosis] of (O040-O049) IS RARE WITH [Additional Diagnosis] of (O093, or O094)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O040-O049
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O093
)
OR
(
        [Principal Diagnosis] (data item 45) = O040-O049
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = O094
)
THEN
        ACCEPT submitted values
        PRINT error message 4666: [Principal Diagnosis] of (O040-O049) IS RARE WITH
        [Additional Diagnosis] of (O093, or O094)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis like ('O04%') and
dbo.ContainsStrings('|O09[3-4]|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4667: [Principal Diagnosis] of (I460-I469) SHOULD NOT BE [Principal Diagnosis] if the underlying cause is known

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = I460–I469
THEN
        ACCEPT submitted values
        PRINT error message 4667: [Principal Diagnosis] of (I460-I469) SHOULD NOT BE
        [Principal Diagnosis] if the underlying cause is known
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis like ('I46[0-9]%')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4668: [Principal Diagnosis] or [Additional Diagnosis] of (D683, or R7983) DOES NOT REQUIRE [Additional Diagnosis] of (Z921)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = D683, or R7983
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z921
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = D683, or R7983
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z921
)
THEN
        ACCEPT submitted values
        PRINT error message 4668: [Principal Diagnosis] or [Additional Diagnosis] of (D683, or
        R7983) DOES NOT REQUIRE [Additional Diagnosis] of (Z921)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE (dx) AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT RTRIM(LTRIM(@principal_diagnosis))
    )

    SELECT @IsInValid =

            CASE
                WHEN

                (SELECT TOP 1 val FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',',
1, 101) WHERE val = 'Z921') IS NOT NULL

                AND
                EXISTS (
                            SELECT TOP 1 dx
                            FROM all_diagnosisCTE
                            WHERE dx IN ('D683','R7983')
                        )

                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)
= 1
                AND REPLACE(@separation_date,'-','') >= '20170701'

                THEN 1
                ELSE 0
            END

    RETURN @IsInValid ;

END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4669: [Principal Diagnosis] or [Additional Diagnosis] of (B150-B199, or O984) DOES NOT REQUIRE [Additional Diagnosis] of (B942)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = B150-B199, or O984
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = B942
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = B150-B199, or O984
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = B942
)
THEN
        ACCEPT submitted values
        PRINT error message 4669: [Principal Diagnosis] or [Additional Diagnosis] of (B150-
        B199, or O984) DOES NOT REQUIRE [Additional Diagnosis] of (B942)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis between 'B150' and 'B199' or
principal_diagnosis = 'O984' or
dbo.ContainsStrings('|B1[5-9][0-9]|O984|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|B942|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

Error message updated to increase diagnosis range to B150- B199. No change to the logic.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4670: [Hospital Number] of (0003) REQUIRES [Adult / Child Flag] of (C, or O)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003
AND
(
(
        [Adult / Child Flag] (data item 86) <> C (Child)
        AND
        [Adult / Child Flag] (data item 86) <> O (Other)
)
        OR Blank
)
THEN
        DEFAULT [Adult / Child Flag] (data item 86) to O (Other)
        PRINT error message 4670: [Hospital Number] of (0003) REQUIRES [Adult / Child Flag] of
        (C, or O)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@@Adult_Child_Flag ---expect O/C
select @ret = case
   when @Hospital_Code='0003' and LEN(LTRIM(RTRIM(ISNULL(@Adult_Child_Flag,'')))>0 AND
UPPER(@Adult_Child_Flag) not in ('O','C') THEN 1
   else   0
end
return @ret
end
```

Issue

None.

Update data quality check

Updated December 2022 to include where Adult/Child flag is Blank and amalgamated with data quality check 4680.

Result

None.

Action

None.

4680: [Hospital Number] of (0003) REQUIRES [Adult / Child Flag] of (C, or O)

Pseudocode

```
IF
        [Hospital Number] (data item 01) = 0003
AND
        [Adult / Child Flag] (data item 86) is blank
THEN
        DEFAULT [Adult / Child Flag] (data item 86) to O (Other)
        PRINT error message 4680: [Hospital Number] of (0003) REQUIRES [Adult / Child Flag] of
        (C, or O)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
---exec xp_logevent 50001,@@Adult_Child_Flag ---expect O/C
select @ret = case
   when @Hospital_Code='0003' and LEN(LTRIM(RTRIM(ISNULL(@Adult_Child_Flag,'')))=0 THEN 1
   else   0
end
return @ret
end
```

Issue

None.

Update data quality check

Made inactive December 2022. Amalgamated with data quality check 4670.

Result

None.

Action

None.

4690: [Date Of Birth] is INVALID or missing)

Pseudocode

```
IF
(
	Day of [Date Of Birth] (data item 09) is blank
	AND
	Month of [Date Of Birth] (data item 09) is blank
)
THEN
	PRINT error message 4690: [Date Of Birth] is INVALID or missing
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @mth CHAR(3)
    SELECT @mth =  CASE
                                WHEN SUBSTRING(@date_of_birth,3,2) = '01' THEN 'Jan'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '02' THEN 'Feb'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '03' THEN 'Mar'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '04' THEN 'Apr'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '05' THEN 'May'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '06' THEN 'Jun'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '07' THEN 'Jul'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '08' THEN 'Aug'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '09' THEN 'Sep'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '10' THEN 'Oct'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '11' THEN 'Nov'
                                WHEN SUBSTRING(@date_of_birth,3,2) = '12' THEN 'Dec'
                                ELSE 'Unk'
                            END

    --DECLARE @s varchar(1000)
    --SET @s='edit_4690: ' + @date_of_birth + ' || ' + @mth
    --EXEC xp_logevent 50001,@s
    SELECT @ret =   CASE
                                WHEN ISDATE(RIGHT(@date_of_birth,4)+'-'+@mth+'-
'+SUBSTRING(@date_of_birth,1,2)) = 1 /*@mth substituted for SUBSTRING(@date_of_birth,3,2)*/
                                    THEN -- Valid Date
                                        CASE
                                            WHEN DATEPART(YYYY,GETDATE()) -
CONVERT(INT,(RIGHT(@date_of_birth,4))) <= 115 AND DATEPART(YYYY,GETDATE()) -
CONVERT(INT,(RIGHT(@date_of_birth,4))) >= 0
                                                THEN 0 -- Logical Age
                                                ELSE 1 -- Invalid DOB... would be '01071890'
                                        END
                                ELSE
                                    CASE
                                        WHEN (CHARINDEX(' ',@date_of_birth,1) > 0 OR
ISNUMERIC(@date_of_birth) = 0 OR @date_of_birth = '00000000' OR LEN(ISNULL(@date_of_birth,''))
<> 8) THEN 1 -- Invalid DOB... would be '01071890'
                                        WHEN SUBSTRING(@date_of_birth,1,4)='0000' THEN 1 --
Corrected missing Day and Month DOB... would be '0107'+RIGHT(@date_of_birth,4)
                                        WHEN SUBSTRING(@date_of_birth,1,2)='00' AND
ISDATE(RIGHT(@date_of_birth,4)+'-'+@mth+'-'+'01') = 1 THEN 1 -- Corrected missing Day DOB...
would be '01'+RIGHT(@date_of_birth,6) /*@mth substituted for SUBSTRING(@date_of_birth,3,2)*/
                                        WHEN SUBSTRING(@date_of_birth,3,2)='00' AND
ISDATE(RIGHT(@date_of_birth,4)+'-'+'Jul'+'-'+SUBSTRING(@date_of_birth,1,2)) = 1 THEN 1 --
Corrected missing Month DOB... would be
SUBSTRING(@date_of_birth,1,2)+'07'+RIGHT(@date_of_birth,4)
                                        ELSE 1 -- Invalid DOB... would be '01071890'
                                    END
                            END
```

```
    RETURN @ret
END
```

Issue

None.

Update data quality check

Updated December 2022 to remove defaulting of Day and Month

Result

None.

Action

None.

4690: [Date Of Birth] INVALID

Pseudocode

```
IF
(
	Day of [Date Of Birth] = 00
	OR
	Month of [Date Of Birth] = 00
	OR
	Year of [Date Of Birth] = 0000
)
THEN
	ACCEPT submitted values
	PRINT error message 4690: [Date Of Birth] INVALID
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(SUBSTRING ( date_of_birth_Original ,1 , 2 ) =    '00' or
SUBSTRING ( date_of_birth_Original ,3, 2 ) =    '00' )and
SUBSTRING ( date_of_birth_Original ,5, 4 ) <>    '0000'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4691: [Date Of Birth] changed since last admission record

Pseudocode

```
IF
	[Date Of Birth] (data item 09) on current admission record <> [Date Of Birth] (data
	item 09) on previous admission record
THEN
	ACCEPT submitted values
	PRINT error message: 4691: [Date Of Birth] changed since last admission record
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @ret INT
    SELECT  @ret = 0 -- Default Valid

    DECLARE @cnt INT
    --DECLARE @s varchar(1000)
    --SET @s='edit_4691: ' + @hospital_code + ' || ' + @patient_unit_number + ' || ' +
@date_of_birth + ' || '  + @separation_date + ' || ' + @separation_time + ' || ' +
@record_type
    --EXEC xp_logevent 50001,@s
    -- New record... looking for latest previous record for same Hosp + MRN that changes DOB
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                ) -- Separation datetime of latest episode
of care
    AND      @record_type = '2' -- New
    AND      IFA.DOB <> @date_of_birth -- Logic of DOB changing
    HAVING COUNT(*) > 0 -- Duplicate/Overlap
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1

    -- Correction record... looking for latest previous record for same Hosp + MRN that
changes DOB but not record being updated
    SELECT  @cnt = COUNT(*)
    FROM    [ISAAC-II].[Live].[ISC_FACT_ADMISSIONS] AS IFA -- Live data
    WHERE  ISDATE(SUBSTRING(@separation_date, 1, 2) + '/'  + SUBSTRING(@separation_date, 3, 2)
+ '/' + SUBSTRING(@separation_date, 5, 4)) = 1 -- Can only compare valid separation date
    AND      ISNULL(IFA.[deleted_flag], 0) = 0 -- Not deleted
    AND      IFA.[hosp_code] = @hospital_code
    AND      IFA.[mrn] = @patient_unit_number
    AND      IFA.[SEP_DATETIME] =    (
                                                SELECT  MAX([SEP_DATETIME])
                                                FROM    [ISAAC-
II].[Live].[ISC_FACT_ADMISSIONS]
                                                WHERE  ISNULL([deleted_flag], 0) = 0 --
Not deleted
                                                AND      [hosp_code] = @hospital_code
                                                AND      [mrn] = @patient_unit_number
                                                AND      [SEP_DATETIME] <> DATEADD(MI,
CONVERT(INT,SUBSTRING(@separation_time, 3, 2)), DATEADD(HH,
CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME, SUBSTRING(@separation_date,
1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' + SUBSTRING(@separation_date, 5, 4)))) -
- Looking at other records than one being corrected
```

```
                                                    ) -- Separation datetime of latest episode
of care but not record being updated
    --AND      IFA.[SEP_DATETIME] <> DATEADD(MI, CONVERT(INT,SUBSTRING(@separation_time, 3,
2)), DATEADD(HH, CONVERT(INT,SUBSTRING(@separation_time, 1, 2)), CONVERT(DATETIME,
SUBSTRING(@separation_date, 1, 2) +'/'  + SUBSTRING(@separation_date, 3, 2) + '/' +
SUBSTRING(@separation_date, 5, 4)))) -- Looking at other records than one being corrected,
NOTE: logically not required as already excluded by max separation date criteria
    AND      @record_type = '3' -- Correction
    AND      IFA.DOB <> @date_of_birth -- Logic of DOB changing
    HAVING COUNT(*) > 0
    IF @@ROWCOUNT > 0 -- Row returned means duplicate found
        SELECT @ret = 1
    RETURN @ret
END
```

Issue

None.

Update data quality check

Updated Q1 Change Process 2022.

Result

None.

Action

None.

4691: [Date Of Birth] INVALID

Pseudocode

None.

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4700: [Admission Time] of (2400) DEFAULTS [Admission Time] to (0000), and [Admission Date (data item 21) to ([Admission Date] + 1)

Pseudocode

```
IF
       [Admission Time] (data item 67) = 2400
THEN
       DEFAULT [Admission Time] (data item 67) to 0000
       DEFAULT [Admission Date] (date item 21) to [Admission Date] + 1
       PRINT error message 4700: [Admission Time] of (2400) DEFAULTS [Admission Time] to
       (0000), and [Admission Date (data item 21) to ([Admission Date] + 1)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
IF
    admission_time_original = '2400'
SET
    admission_time_original = '0000'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4710: Length of stay of (> 1 year)

Pseudocode

```
IF
       Length of stay > 365 days
THEN
       ACCEPT submitted record
       PRINT error message 4710: Length of stay of (> 1 year)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Length_of_Stay_in_Days > 365
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4715: [Interpreter Required] not (1, 2, 3, 4, 5, or 9)

Pseudocode

```
        IF
        [Interpreter Required] (data item 107) is not blank
        AND
        (
        [Interpreter Required] (data item 107) <> 1 (Yes: Female interpreter required)
        AND
        [Interpreter Required] (data item 107) <> 2 (Yes: Male interpreter required)
        AND
        [Interpreter Required] (data item 107) <> 3 (Yes: Gender of interpreter not specified)
        AND
        [Interpreter Required] (data item 107) <> 4 (Yes: Non-spoken communication)
        AND
        [Interpreter Required] (data item 107) <> 5 (No)
        AND
        [Interpreter Required] (data item 107) <> 9 (Not stated)
        )
        THEN
        ACCEPT submitted values
PRINT error message 4715: [Interpreter Required] not (1, 2, 3, 4, 5, or 9)
```

Status

Active.

Implementation

```
BEGIN
    DECLARE @IsInvalid SMALLINT = 0 ;

    IF  NULLIF(@interpreter_required, '') IS NOT NULL
        AND @interpreter_required NOT IN ('1', '2', '3', '4', '5', '9')
    BEGIN
        SET @IsInvalid = 1 ;
    END ;

    RETURN @IsInvalid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4720: [Mental Health Accommodation Prior] not (00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 or 24)

Pseudocode

```
IF
	[Mental Health Accommodation Prior] (data item 103) is not blank
AND
(
	[Mental Health Accommodation Prior] (data item 103) <> 00 (Unknown)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 01 (Private residence)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 02 (Boarding / Rooming house)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 03 (Domestic scale supported
	living facility)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 04 (Homeless: Homeless persons
	shelter)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 05 (Homeless: Boarding /
	Rooming house)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 06 (Homeless: No usual
	accommodation)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 07 (Homeless: Public place)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 08 (Hospital: Psychiatric)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 09 (Hospital: Other)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 10 (Independent unit as part of
	retirement village or similar)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 11 (Other supported
	accommodation)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 12 (Palliative care facility:
	Hospice)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 13 (Prison / Remand centre /
	Youth training centre)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 14 (Hostel or hostel type
	accommodation)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 15 (Residential aged care
	facility: High)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 16 (Residential aged care
	facility: Low)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 17 (Shelter / Refuge: Not
	including homeless persons shelter)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 18 (Specialised alcohol/other
	drug treatment service)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 19 (Specialised mental health
	community based residential support service)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 20 (Other accommodation nec)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 21 (Unable to determine)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 22 (Prison)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 23 (Remand)
	AND
	[Mental Health Accommodation Prior] (data item 103) <> 24 (Youth training centre)
	)
THEN
	ACCEPT submitted values
```

```
        PRINT error message 4720: [Mental Health Accommodation Prior] not (00, 01, 02, 03, 04,
        05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 or 24)
```

Status

Active

Implementation

```
BEGIN
    DECLARE @IsInvalid SMALLINT = 0 ;

    IF NULLIF(@mental_health_accommodation_prior, '') IS NOT NULL
        AND @mental_health_accommodation_prior NOT IN (
                                                        '00'
                                                      , '01'
                                                      , '02'
                                                      , '03'
                                                      , '04'
                                                      , '05'
                                                      , '06'
                                                      , '07'
                                                      , '08'
                                                      , '09'
                                                      , '10'
                                                      , '11'
                                                      , '12'
                                                      , '13'
                                                      , '14'
                                                      , '15'
                                                      , '16'
                                                      , '17'
                                                      , '18'
                                                      , '19'
                                                      , '20'
                                                      , '21'
                                                      , '22'
                                                      , '23'
                                                      , '24'
                                                    )
    BEGIN
        SET @IsInvalid = 1 ;
    END ;

    RETURN @IsInvalid ;
END ;
```

Issue

None.

Update data quality check

Updated 1 July 2023 to introduce 3 new codes to represent 22 – Prison, 23 – Remand Centre and 24 – Youth Training Centre.

Result

None.

Action

None.

4725: [Preferred Language] not in system reference table

Pseudocode

```
IF
	[Preferred Language] (data item 105) not in system reference table, and is not blank
THEN
	ACCEPT submitted values
	PRINT error message 4725: [Preferred Language] not in system reference table
```

Status

Active.

Implementation

```
BEGIN
    DECLARE @IsInvalid SMALLINT = 0 ;

    IF NULLIF(@preferred_language, '') IS NOT NULL
        AND @preferred_language NOT IN (
                SELECT  dc_Code
                FROM Codes.Domain
                WHERE   dc_Field_Name = 'preferred_language'
            )
    BEGIN
        SET @IsInvalid = 1 ;
    END ;

    RETURN @IsInvalid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4730: [Adult / Child Flag] not blank, and [Hospital Number] not (0003, or 0296)

Pseudocode

```
IF
        [Hospital Number] (data item 01) <> 0003, or 0296
AND
        [Adult / Child Flag] (data item 86) is not blank
THEN
        PRINT error message 4730: [Adult / Child Flag] not blank, and [Hospital Number] not
        (0003, or 0296)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
begin
declare @ret int
/*
declare @s varchar(1000)
set @s=RIGHT([separation_date], 4) + SUBSTRING([separation_date], 3, 2) +
LEFT([separation_date], 2)+'<'+convert(varchar(10),dateadd(yy,-10,getdate()),112)
exec xp_logevent 50001,@s
*/
---exec xp_logevent 50001,@Separation_Date
if @Hospital_Code NOT IN ('0003', '0296')
begin
   select @ret = case when len((Isnull(@Adult_Child_Flag,'')))<>0 --and @record_type='2' then
1
                  --when len((Isnull(@Adult_Child_Flag,'')))<>0 and @record_type='5' and
@correction_deletion_item_number='86' and
LEN(ISNULL(@correction_deletion_new_information,''))<>0 then 1
                  else 0 end
end
else
begin
   select @ret= 0
end
return @ret
end
```

Issue

None.

Update data quality check

Updated December 2022 to remove defaulting of Adult/Child flag to Blank.

Result

None.

Action

None.

4735: [Religious Affiliation] not in system reference table

Pseudocode

```
IF
       [Religious Affiliation] (data item 103) not in system reference table, and is not
       blank
THEN
       ACCEPT submitted values
       PRINT error message 4735: [Religious Affiliation] not in system reference table
```

Status

Active.

Implementation

```
BEGIN
    DECLARE @IsInvalid SMALLINT = 0 ;

    IF NULLIF(@religious_affiliation, '') IS NOT NULL
        AND @religious_affiliation NOT IN (
                SELECT  dc_Code
                FROM Codes.Domain
                WHERE   dc_Field_Name = 'religious_affiliation'
            )
    BEGIN
        SET @IsInvalid = 1 ;
    END ;

    RETURN @IsInvalid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4740: [Source Of Referral] of (E) or [Nature Of Separation] of (E) NOT COMPATIBLE WITH [Hospital Number] of (>= 4000 and <= 4999)

Pseudocode

```
IF
(
        [Source Of Referral] (data item 16) = E (End of quarter reporting)
        OR
        [Nature Of Separation] (data item 42) = E (End of quarter reporting)
)
AND
        [Hospital Number] (data item 01) >= 4000 and  <= 4999
THEN
        ACCEPT submitted values
        PRINT error message 4740: [Source Of Referral] of (E) or [Nature Of Separation] of (E)
        NOT COMPATIBLE WITH [Hospital Number] of (>= 4000 and <= 4999)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInvalid INT ;
   IF ISNUMERIC(@hospital_code) = 1 and nullif(@hospital_code,'') is not null
      BEGIN
         SELECT @IsInvalid = CASE
            WHEN (@nature_of_separation = 'E' and @hospital_code between '4000' and '4999')
            or (@source_of_referral = 'E' and @hospital_code between '4000' and '4999')
            THEN 1
            ELSE 0
         END
      END
RETURN @IsInvalid
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4755: [Previous Specialised Treatment] not (0, 1, 2, 3, 4, 5, or blank)

Pseudocode

```
IF
(
	[Previous Specialised Treatment] is not blank
	AND
	(
		[Previous Specialised Treatment] <> 1 (None.)
		AND
		[Previous Specialised Treatment] <> 2 (Hospital admission(s))
		AND
		[Previous Specialised Treatment] <> 3 (Contract service(s))
		AND
		[Previous Specialised Treatment] <> 4 (Both)
		AND
		[Previous Specialised Treatment] <> 5 (Unknown / Not stated)
	)
)
THEN
	ACCEPT submitted record
	PRINT error message 4755: [Previous Specialised Treatment] not (0, 1, 2, 3, 4, 5, or
	blank)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    --DECLARE @s varchar(1000)
    --SET @s='edit_4755: ' + ' || ' + @previous_specialised_treatment + ' || '
    --EXEC xp_logevent 50001,@s

    IF    NULLIF(@previous_specialised_treatment, '') IS NOT NULL
    AND @previous_specialised_treatment NOT BETWEEN '1' AND '5'
    AND EXISTS (
            SELECT TOP (1) 1
            FROM [ISAAC-II_Transform].DBO.Hospital_ISAAC_Original_Columns
            WHERE    hospital_batch = @hospital_batch
            ---    AND record_length >= 746
            AND record_type='5' and correction_deletion_item_number='101'
            --  These conditions updated to be wrapped in quotes to avoid below error
            -- "Conversion:Conversion failed when converting the varchar value 'XXX' to data
type int."

        )
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default values.

Result

None.

Action

None..

4760: [Employment status] not (0, 1, 2, 3, 4, 5, 6, or 9)

Pseudocode

```
IF
(
        [Employment Status] (data item 88) <> 0 (Not applicable)
        AND
        [Employment Status] (data item 88) <> 1 (Child not at school)
        AND
        [Employment Status] (data item 88) <> 2 (Student)
        AND
        [Employment Status] (data item 88) <> 3 (Employed)
        AND
        [Employment Status] (data item 88) <> 4 (Unemployed)
        AND
        [Employment Status] (data item 88) <> 5 (Home duties)
        AND
        [Employment Status] (data item 88) <> 6 (Other)
        AND
        [Employment Status] (data item 88) <> 9 (Unknown)
)
THEN
        ACCEPT submitted record
        PRINT error message 4760: [Employment status] not (0, 1, 2, 3, 4, 5, 6, or 9)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid =

    CASE
                            WHEN
                            (
                                (
                                    SELECT dc_Code
                                    FROM codes.Domain
                                    where dc_Field_Name = 'Employment Status'
                                    AND dc_Code = @employment_status
                                ) IS NULL
                            )
                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default values.

Result

None.

Action

None.

4770: [Pension Status] not (0, 5, or 9)

Pseudocode

```
IF
(
        [Pension Status] (data item 89) <> 0 (Not applicable)
        AND
        [Pension Status] (data item 89) <> 1 (DHS: Age pension)
        AND
        [Pension Status] (data item 89) <> 2 (DVA: Any payment)
        AND
        [Pension Status] (data item 89) <> 3 (DHS: Disability support pension)
        AND
        [Pension Status] (data item 89) <> 4 (DHS: Newstart / Youth allowance)
        AND
        [Pension Status] (data item 89) <> 5 (DHS: Sickness allowance)
        AND
        [Pension Status] (data item 89) <> 9 (Other / Unknown)
)
THEN
        ACCEPT submitted record
        PRINT error message 4770: [Pension Status] not (0, 5, or 9)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Pension_Status in ('0','1','2','3','4','5','9')
```

Issue

None.

Update data quality check

Updated December 2021 to remove default values.

Result

None.

Action

None.

4780: [Type Of Usual Accommodation] not (1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, H, M, N, O, P, R, S or Y), and [Hospital Number] of <4000

Pseudocode

```
IF
        [Hospital Number] (data item 01) < 4000
AND
(
        [Type Of Usual Accommodation] (data item 90) <> 1 (House, flat or other private
        residence)
        AND
        [Type Of Usual Accommodation] (data item 90) <> 2 (Independent unit as part of
        retirement village or similar)
        AND
        [Type Of Usual Accommodation] (data item 90) <> 4 (Psychiatric hospital)
        AND
        [Type Of Usual Accommodation] (data item 90) <> 5 (Homeless: Boarding / Rooming house)
        AND
        [Type Of Usual Accommodation] (data item 90) <> 6 (Other accommodation)
        AND
        [Type Of Usual Accommodation] (data item 90) <> 7 (Homeless: No usual residence)
        AND
        [Type Of Usual Accommodation] (data item 90) <> 8 (Homeless: Shelter/refuge)
        AND
        [Type Of Usual Accommodation] (data item 90) <> A (Specialised alcohol/other drug
        treatment residence)
        AND
        [Type Of Usual Accommodation] (data item 90) <> B (Boarding/rooming house (not
        homeless)
        AND
        [Type Of Usual Accommodation] (data item 90) <> C (Residential aged care service)
        AND
        [Type Of Usual Accommodation] (data item 90) <> D (Domestic scale supported living
        facility)
        AND
        [Type Of Usual Accommodation] (data item 90) <> H (Hostel or hostel type
        accommodation)
        AND
        [Type Of Usual Accommodation] (data item 90) <> M (Specialised mental health community
        based: Residential)
        AND
        [Type Of Usual Accommodation] (data item 90) <> N (Prison)
        AND
        [Type Of Usual Accommodation] (data item 90) <> O (Other supported accommodation)
        AND
        [Type Of Usual Accommodation] (data item 90) <> P Prison / Remand centre / Youth
        training centre)
        AND
        [Type Of Usual Accommodation] (data item 90) <> R (Remand)
        AND
        [Type Of Usual Accommodation] (data item 90) <> S (Shelter / Refuge (not homeless
        persons shelter)
        AND
        [Type Of Usual Accommodation] (data item 90) <> Y (Youth training centre)
)
THEN
        ACCEPT submitted record
        PRINT error message 4780: [Type Of Usual Accommodation] not (1, 2, 3, 4, 5, 6, 7, 8,
        A, B, C, D, H, M, N, O, P, R, S or Y), and [Hospital Number] of < 4000
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF (
      (
         (@hospital_code BETWEEN '0003' AND '0019')
```

```
            OR (@hospital_code BETWEEN '0027' AND '0033')
            --OR (@hospital_code BETWEEN '0249' AND '0300')
            OR (@hospital_code BETWEEN '0249' AND '4000')
            OR (@hospital_code IN ('0042','0058','0163'))
            )
        AND
            (
            ISNULL(@type_of_usual_accommodation, '') NOT BETWEEN '1' AND '2'
            AND
            ISNULL(@type_of_usual_accommodation, '') NOT BETWEEN '4' AND '8'
            AND
            ISNULL(@type_of_usual_accommodation, '') NOT BETWEEN 'A' AND 'D'
            AND
            ISNULL(@type_of_usual_accommodation, '') NOT IN ('H', 'M', 'N', 'O', 'P', 'R', 'S'
            Or 'Y')
            AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
            AND REPLACE(@separation_date,'-','') >= '20160701'
            )
    BEGIN
       SET @IsInValid = 1 ;
    END ;
     RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated 31 March to include all Public and Private Hospitals

Result

None.

Action

None.

4789: [Date Of Birth Accuracy Flag] not (2), and [Date Of Birth] = 01-Jul-1890

Pseudocode

```
IF
        [Date Of Birth] (data item 09) = 01/07/1890
AND
        [Date Of Birth Accuracy Flag] (data item 91) <> 2 (Estimate / Incomplete)
THEN
        ACCEPT submitted record
        PRINT error message 4789: [Date Of Birth Accuracy Flag] not (2), and [Date Of Birth] =
        01-Jul-1890
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    IF  @date_of_birth = '1890-07-01'
    AND ISNULL(@date_of_birth_accuracy_flag, '') <> '2'

   --AND ISDATE(@separation_date) = 1
   --AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01'
   AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
   --AND REPLACE(@separation_date,'-','') >= '20140701'
    BEGIN
        SET @IsInValid = 1 ;
    END ;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4790: [Date Of Birth Accuracy Flag] not (1, or 2)

Pseudocode

```
IF
(
	[Date Of Birth Accuracy Flag] (data item 91) <> 1 (Accurate)
	AND
	[Date Of Birth Accuracy Flag] (data item 91) <> 2 (Estimate / Incomplete)
)
THEN
	ACCEPT submitted record
	PRINT error message 4790: [Date Of Birth Accuracy Flag] not (1, or 2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
date_of_birth_accuracy_flag in codes.domain dc_Field_Name 'Date of Birth Accuracy Flag'
dc_Code
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

4791: [Additional Diagnosis] of (Z940) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N183, N184, N185, or I120)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z940
        AND
        [Principal Diagnosis] (data item 45) <> N183, N184, N185, or I120
)
OR
)
        [Additional Diagnosis] (data item 46_001-46_099) = Z940
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> N183, N184, N185, or I120
)
THEN
        ACCEPT submitted values
        PRINT error message 4791: [Additional Diagnosis] of (Z940) REQUIRES [Principal
        Diagnosis] or [Additional Diagnosis] of (N183, N184, N185, or I120)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid =

    CASE
                            WHEN
                                (
                                    dbo.ContainsStrings('|Z940|',@additional_diagnosis) > 0
                                    AND    (
                                            @principal_diagnosis NOT IN
('N183','N184','N185','I120')
                                            AND
dbo.ContainsStrings('|N183|N184|N185|I120|',@additional_diagnosis) > 0
                                          )
                                )
                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4792: **INACTIVE from 1/7/10 - for details contact health.dataanalyticsandinsights@sa.gov.au**

Pseudocode

None.

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4793: [Principal Diagnosis] or [Additional Diagnosis] of (I129, I130, or I139) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N181-N184, or N189)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = I129, I130, or I139
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> N181-N184, or N189
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = I129, I130, or I139
        AND
        [Principal Diagnosis] (data item 45) <> N181-N184, or N189
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = I129, I130, or I139
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> N181-N184, or N189
)
THEN
        ACCEPT submitted values
        PRINT error message 4793: [Principal Diagnosis] or [Additional Diagnosis] of (I129,
        I130, or I139) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N181-N184,
        or N189)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
    SELECT   @IsInValid = CASE
                           WHEN (LTRIM(RTRIM(@principal_diagnosis)) IN ('I129','I130','I139')
                        OR dbo.ContainsStrings('|I129|I130|I139|',@additional_diagnosis) > 0)
                        AND
                        (LTRIM(RTRIM(@principal_diagnosis)) NOT IN
('N181','N182','N183','N184','N189')
                        AND
dbo.ContainsStrings('|N181|N182|N183|N184|N189|',@additional_diagnosis) = 0)
                        AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0)=1
                        AND REPLACE(@separation_date,'-','') >= '20160701'
                            THEN 1
                            ELSE 0
                         END ;
    RETURN   @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4794: [Additional Diagnosis] of (Z992) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (N185, or I120)

Pseudocode

```
IF

        [Additional Diagnosis] (data item 46_001-46_099) = Z992
        AND
        [Principal Diagnosis] (data item 45) <> I120, or N185
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z992
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> I120, or N185
)
THEN
        ACCEPT submitted values
        PRINT error message 4794: [Additional Diagnosis] of (Z992) REQUIRES [Principal
        Diagnosis] or [Additional Diagnosis] of (I120, or N185)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    /*
        Note:   Logic has been coaded exactly in the same order as it is mentioned in the
specification
                This has been done to keep things simple enough
    */

    DECLARE @IsInValid  SMALLINT = 0 ;
    SELECT @principal_diagnosis = RTRIM(LTRIM(@principal_diagnosis)) ;

    WITH additional_diagnosisCTE AS
    (
        SELECT  icd_code = RTRIM(LTRIM(val))
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT icd_code FROM additional_diagnosisCTE
        UNION
        SELECT d.icd_code FROM (VALUES(@principal_diagnosis)) d(Icd_Code) WHERE d.Icd_Code IS
NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN EXISTS
                            (
                                SELECT TOP (1) 1
                                FROM additional_diagnosisCTE
                                WHERE    icd_code = 'z992'
                            )
                            AND NOT EXISTS
                            (
                                SELECT TOP (1) 1
                                FROM all_diagnosisCTE
                                WHERE    icd_code IN (
                                             'N185'
                                           , 'I120'
                                         )
                            )
                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;
```

```
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4795: [Principal Diagnosis] or [Additional Diagnosis] of (I120, or I131) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (N181-N189)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = I120, or I131
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = N181-N189
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = I120, or I131
        AND
        [Principal Diagnosis] (data item 45) = N181-N189
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = I120, or I131
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = N181-N189
)
THEN
        ACCEPT submitted values
        PRINT error message 4795: [Principal Diagnosis] or [Additional Diagnosis] of (I120, or
        I131) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (N181-
        N189)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(dbo.ContainsStrings('|I120|I131|',additional_diagnosis) > 0 or
rtrim(principal_diagnosis) in ('I120','I131') ) and
(rtrim(principal_diagnosis) like ('N18[1-9]') or
dbo.ContainsStrings('|N18[1-9]|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4796: [Principal Diagnosis] or [Additional Diagnosis] of (N185) NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (I129, I130, or I139)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = N185
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I129, I130, or I139
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = N185
        AND
        [Principal Diagnosis] (data item 45) = I129, I130, or I139
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = N185
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = I129, I130, or I139
)
THEN
        ACCEPT submitted values
        PRINT error message 4796: [Principal Diagnosis] or [Additional Diagnosis] of (N185)
        NOT COMPATIBLE WITH [Principal Diagnosis] or [Additional Diagnosis] of (I129, I130, or
        I139)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(dbo.ContainsStrings('|N185|',additional_diagnosis) > 0 or
rtrim(principal_diagnosis) = 'N185' ) and
(rtrim(principal_diagnosis) in ('I129','I130','I139') or
dbo.ContainsStrings('|I129|I130|I139|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4800: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in system reference table with [Sex Flag] of (1) for [Principal Diagnosis] or [Additional Diagnosis]

Pseudocode

```
IF
        [Sex] <> ([Sex] in system reference table with [Sex Flag] = 1 for [Principal
        Diagnosis] (data item 45) or [Additional Diagnosis] (data item 46_001-46_099))
THEN
        ACCEPT submitted values
        PRINT error message 4800: [Sex] from patient record NOT COMPATIBLE WITH [Sex] in
        system reference table with [Sex Flag] of (1) for [Principal Diagnosis] or [Additional
        Diagnosis]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(((Principal_Diagnosis in vw_Codes_ICD10AM icd_Sex 'F' icd_Code and
Principal_Diagnosis in vw_Codes_ICD10AM isnull(icd_Sex_flag,1) 1 icd_Code ) or (
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM icd_Sex 'F'
icd_Code and
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM
isnull(icd_Sex_flag,0) 0 icd_Code )) and
(Sex <> '2' )) or
(((Principal_Diagnosis in vw_Codes_ICD10AM icd_Sex 'M' icd_Code and
Principal_Diagnosis in vw_Codes_ICD10AM isnull(icd_Sex_flag,1) 1 icd_Code ) or (
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM icd_Sex 'M'
icd_Code and
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM
isnull(icd_Sex_flag,0) 0 icd_Code )) and
(Sex <> '1' ))
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4810: Age at admission NOT COMPATIBLE WITH [Age Range] in system reference table for [Principal Diagnosis]

Pseudocode

```
IF
        Age at admission <> ([Age Range] in system reference table for [Principal Diagnosis]
        (data item 45) (data item 46_001))
THEN
        ACCEPT submitted values
        PRINT error message 4810: Age at admission NOT COMPATIBLE WITH [Age Range] in system
        reference table for [Principal Diagnosis]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis = vw_Codes_ICD10AM icd_code principal_diagnosis icd_code and
((age_in_years_and_months_at_admission <    icd_min_age or
age_in_years_and_months_at_admission >    icd_max_age ) and
2 =    icd_age_flag ) or
((age_in_years_and_months_at_admission >=    icd_min_age and
age_in_years_and_months_at_admission <=    icd_max_age ) and
1 =    icd_age_flag and
age_in_years_and_months_at_admission <    icd_Min_Age )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4811: [External Cause] or [Additional Diagnosis] of (Y900-Y908) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (F100-F102, or T510)

Pseudocode

```
IF
(
        [External Cause] (data item 47) = Y900-Y908
        AND
        [Principal Diagnosis] (data item 45) <> F100-F102, or T510
)
OR
(
        [External Cause] (data item 47) = Y900-Y908
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> F100-F102, or T510
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Y900-Y908
        AND
        [Principal Diagnosis] (data item 45) <> F100-F102, or T510
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Y900-Y908
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> F100-F102, or T510
)
THEN
        ACCEPT submitted values
        PRINT error message 4811: [External Cause] or [Additional Diagnosis] of (Y900-Y908)
        REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (F100-F102, or T510)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH all_diagnosisCTE (dx) AS
    (
        SELECT val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
        UNION
        SELECT RTRIM(LTRIM(@principal_diagnosis))
    )

    SELECT @IsInValid =

            CASE
                WHEN

                --    (
                --        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField (@external_cause,
',', 1, 101) WHERE val = 'Z921') IS NULL
                --OR
                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_diagnosis, ',', 1, 101) WHERE val BETWEEN 'Y900' AND 'Y908' ) IS NOT NULL
                --    )

                AND
                NOT EXISTS (
                            SELECT TOP 1 dx
                            FROM all_diagnosisCTE
                            WHERE (         dx = 'T510'
                                    OR    dx BETWEEN 'F100' AND 'F102'
```

```
                                        )
                                )

                    AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)
= 1
                    AND REPLACE(@separation_date,'-','') >= '20170701'

                    THEN 1
                    ELSE 0
                END

    RETURN @IsInValid ;

END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4812: [Principal Diagnosis] or [Additional Diagnosis] of (F101) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F102-F109)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = F101
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F102-F109
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F101
        AND
        [Principal Diagnosis] (data item 45) = F102-F109
)
OR

(
        [Additional Diagnosis] (data item 46_001-46_099) = F101
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F102-F109
)
THEN
        ACCEPT submitted values
        PRINT error message 4812: [Principal Diagnosis] or [Additional Diagnosis] of (F101)
        DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F102-F109)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'F101' or
dbo.ContainsStrings('|F101|',additional_diagnosis) > 0 ) and
(principal_diagnosis like ('F10[2-9]') or
dbo.ContainsStrings('|F10[2-9]|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4814: [Principal Diagnosis] or [Additional Diagnosis] of (F111) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F112–F119)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = F111
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F112-F119
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F111
        AND
        [Principal Diagnosis] (data item 45) = F112-F119
)
OR

(
        [Additional Diagnosis] (data item 46_001-46_099) = F111
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F112-F119
)
THEN
        ACCEPT submitted values
        PRINT error message 4814: [Principal Diagnosis] or [Additional Diagnosis] of (F111)
        DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F112-F119)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'F111' or
dbo.ContainsStrings('|F111|',additional_diagnosis) > 0 ) and
(principal_diagnosis like ('F11[2-9]') or
dbo.ContainsStrings('|F11[2-9]|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4816: [Principal Diagnosis] or [Additional Diagnosis] of (F121) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F122–F129)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = F121
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F122-F129
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F121
        AND
        [Principal Diagnosis] (data item 45) = F122-F129
)
OR

(
        [Additional Diagnosis] (data item 46_001-46_099) = F121
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F122-F129
)
THEN
        ACCEPT submitted values
        PRINT error message 4816: [Principal Diagnosis] or [Additional Diagnosis] of (F121)
        DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F122-F129)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'F121' or
dbo.ContainsStrings('|F121|',additional_diagnosis) > 0 ) and
(principal_diagnosis like ('F12[2-9]') or
dbo.ContainsStrings('|F12[2-9]|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4818: [Principal Diagnosis] or [Additional Diagnosis] of (F171) DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F172–F179)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = F171
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F172-F179
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F171
        AND
        [Principal Diagnosis] (data item 45) = F172-F179
)
OR

(
        [Additional Diagnosis] (data item 46_001-46_099) = F171
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = F172-F179
)
THEN
        ACCEPT submitted values
        PRINT error message 4818: [Principal Diagnosis] or [Additional Diagnosis] of (F171)
        DOES NOT REQUIRE [Principal Diagnosis] or [Additional Diagnosis] of (F172-F179)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis = 'F171' or
dbo.ContainsStrings('|F171|',additional_diagnosis) > 0 ) and
(principal_diagnosis like ('F17[2-9]') or
dbo.ContainsStrings('|F17[2-9]|',additional_diagnosis) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4819: [Principal Diagnosis] or [Additional Diagnosis] of (F171, or F172) DOES NOT REQUIRE [Additional Diagnosis] of (Z587, Z720, or Z8643)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = F171, or F172
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z587, Z720, or Z8643
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = F171, or F172
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z587, Z720, or Z8643
)
THEN
        ACCEPT submitted values
        PRINT error message 4819: [Principal Diagnosis] or [Additional Diagnosis] of (F171, or
        F172) DOES NOT REQUIRE [Additional Diagnosis] of (Z587, Z720, or Z8643)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT @IsInValid =

            CASE
                WHEN
                    (
                        (RTRIM(LTRIM(@principal_diagnosis)) IN ('F171','F172'))
                        AND
                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_diagnosis, ',', 1, 101) WHERE val IN ('Z8643','Z720','Z587')) IS NOT NULL
                    )
                    OR
                    (
                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_diagnosis, ',', 1, 101) WHERE val IN ('F171','F172')) IS NOT NULL
                        AND
                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_diagnosis, ',', 1, 101) WHERE val IN ('Z8643','Z720','Z587')) IS NOT NULL
                    )

                    AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0) = 1
                    AND REPLACE(@separation_date,'-','') >= '20170701'

                THEN 1
                ELSE 0
            END

    RETURN @IsInValid ;

END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4819A: [Additional Diagnosis] of (Z8643, or Z720) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z587)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = Z8643, or Z720
AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z587
THEN
        ACCEPT submitted values
        PRINT error message 4819A: [Additional Diagnosis] of (Z8643, or Z720) NOT COMPATIBLE
        WITH [Additional Diagnosis] of (Z587)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT  @IsInValid = CASE

                            WHEN
                                (
                                    (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 101) WHERE val
IN ('Z8643','Z720')) IS NOT NULL
                                        AND
                                    (SELECT TOP 1 val FROM
[HEALTHVALIDATOR].[dbo].ValidateDelimitedField(@additional_diagnosis, ',', 1, 101) WHERE val =
'Z587') IS NOT NULL
                                        )

                                AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
                                AND REPLACE(@separation_date,'-','') >= '20170701'
                                --AND REPLACE(@separation_date,'-','') >= '20180701'
                        THEN 1

                        ELSE 0

                        END;
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4820: [Sex] from patient record NOT COMPATIBLE WITH, [Sex] in system reference table with [Sex Flag] of (1) for [Procedure]

Pseudocode

```
IF
        [Sex] <> ([Sex] in system reference table with [Sex Flag] = 1 for [Procedure] (data
        item 49_001-49_099))
THEN
        ACCEPT submitted values
        PRINT error message 4820: [Sex] from patient record NOT COMPATIBLE WITH, [Sex] in
        system reference table with [Sex Flag] of (1) for [Procedure]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(((Principal_procedure in vw_Codes_ICD10AM icd_Sex 'F' icd_Code and
Principal_procedure in vw_Codes_ICD10AM isnull(icd_Sex_flag,1) 1 icd_Code ) or (
dbo.ValidateDelimitedField(additional_procedure,',',1,101) in vw_Codes_ICD10AM icd_Sex 'F'
icd_Code and
dbo.ValidateDelimitedField(additional_procedure,',',1,101) in vw_Codes_ICD10AM
isnull(icd_Sex_flag,0) 0 icd_Code )) and
(Sex <> '2' )) or
(((Principal_procedure in vw_Codes_ICD10AM icd_Sex 'M' icd_Code and
Principal_procedure in vw_Codes_ICD10AM isnull(icd_Sex_flag,1) 1 icd_Code ) or (
dbo.ValidateDelimitedField(additional_procedure,',',1,101) in vw_Codes_ICD10AM icd_Sex 'M'
icd_Code and
dbo.ValidateDelimitedField(additional_procedure,',',1,101) in vw_Codes_ICD10AM
isnull(icd_Sex_flag,0) 0 icd_Code )) and
(Sex <> '1' ))
```

Issue

None.

Update data quality check

Updated 1 July 2022

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4822: [Episode Of Care] of (7) and [Source Of Referral] of (A) REQUIRES [Principal Diagnosis] of (Z500-Z509, or Z519)

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) = 7 (Hospital at home / Rehab at home)
        AND
        [Source Of Referral] (data item 16) = A (Administrative admission)
        AND
        [Principal Diagnosis] (data item 45) <> Z500-Z509, or Z519
)
THEN
        ACCEPT submitted values
        PRINT error message 4822: [Episode Of Care] of (7) and [Source Of Referral] of (A)
        REQUIRES [Principal Diagnosis] of (Z500-Z509, or Z519)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
episode_of_care =    '7' and
Source_of_Referral =    'A' and
(rtrim(principal_diagnosis) not like    ('Z50[0-9]') and
principal_diagnosis <>    'Z519' )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4824: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Source Of Referral] not (A) and [Principal Diagnosis] of (Z519)

Pseudocode

```
IF
        [Episode Of Care] (data item 51) = 7 (Hospital in the home / Rehab in the home)
AND
        [Source Of Referral] (data item 16) <> A (Administrative admission)
AND
        [Principal Diagnosis] (data item 45) = Z519
THEN
        ACCEPT submitted values
        PRINT error message 4824: [Episode Of Care] of (7) NOT COMPATIBLE WITH [Source Of
        Referral] not (A) and [Principal Diagnosis] of (Z519)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
UPDATE [HealthValidator].[dbo].[ValidationSetExpressions] SET [description] = '[Episode Of
Care] of (7) NOT COMPATIBLE WITH [Source Of Referral] not (A) and [Principal Diagnosis] of
(Z519)' WHERE code = '4824'
Episode_Of_Care = '7' and
Source_of_Referral <> 'A' and
Principal_Diagnosis = 'Z519'
```

Issue

None.

Update data quality check

Updated Q1 Change Process 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4830: Age at admission NOT COMPATIBLE WITH [Age Range] in system reference table for [Procedure]

Pseudocode

```
IF
        Age at admission <> ([Age Range] in system reference table for [Procedure] (data item
        49_001-49_099))
THEN
        ACCEPT submitted values
        PRINT error message 4830: Age at admission NOT COMPATIBLE WITH [Age Range] in system
        reference table for [Procedure]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_procedure = vw_Codes_ICD10AM icd_code principal_procedure icd_code and
((age_in_years_and_months_at_admission < icd_min_age or
age_in_years_and_months_at_admission > icd_max_age ) and
2 = icd_age_flag ) or
((age_in_years_and_months_at_admission >= icd_min_age and
age_in_years_and_months_at_admission <= icd_max_age ) and
1 = icd_age_flag and
age_in_years_and_months_at_admission < icd_Min_Age )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4832: Principal [Procedure] contains [Procedure] in system reference table with [Unacceptable First Procedure Flag] of (Y), or Principal [Procedure] of (9623100, 9623300, or 9623400), and [Additional Diagnosis] not Z533

Pseudocode

```
IF
(
        Principal [Procedure] (data item 49_001) = ([Procedure] in system reference table with
        [Unacceptable First Procedure Flag] = Y)

AND
        [Additional Diagnosis] (data item 46_001-46_099) <> (Z533)
)
THEN
        ACCEPT all codes
        PRINT error message 4832: Principal [Procedure] contains [Procedure] in system
        reference table with [Unacceptable First Procedure Flag] of (Y), or Principal
        [Procedure] of (9623100, 9623300, or 9623400), and [Additional Diagnosis] not Z533
```

Status

Active.

Implementation

Issue

[Additional Diagnoses] of Z530 to Z533 allowed excluding Z533.

Update data quality check

Update [Additional Diagnosis] from = Z530-Z539 to <> Z533 and remove Principal [Procedure] code 9623100, 9623300 and 9623400.

Result

The pseudocode for this data quality check has been changed.

The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4833: [Procedure] from (Block 451, Block 1940-1941, Block 1943-2016, and not 3068800) WITHOUT [Procedure] from (9251410-9251599), delete Radiological procedure

Pseudocode

```
IF
        [Procedure] (data item 49_001-49_099) = Block 451, Block 1940-1941, Block 1943-2016,
        and not 3068800
AND
        [Procedure] (data item 49_001-49_099) <> 9251410-9251599
THEN
        ACCEPT submitted values
        PRINT error message 4833: [Procedure] from (Block 451, Block 1940-1941, Block 1943-
        2016, and not 3068800) WITHOUT [Procedure] from (9251410-9251599), delete Radiological
        procedure
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    /*
        Note:   Logic has been coded exactly in the same order as it is mentioned in the
specification
                This has been done to keep things simple enough
    */

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_procedureCTE AS
    (
        SELECT  icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    , all_proceduresCTE AS
    (
        SELECT icd_Code FROM additional_procedureCTE
        UNION
        SELECT d.icd_code FROM (VALUES(@principal_procedure)) d(icd_code) WHERE
NULLIF(d.icd_code, '') IS NOT NULL
    )
    , valid_proceduresCTE AS
    (
        SELECT  c.icd_Code
        FROM [dbo].[vw_Codes_ICD10AM] c
        WHERE   (
                    c.icd_proc_block = '0451'
                    OR
                    c.icd_proc_block BETWEEN '1940' AND '1941'
                    OR
                    c.icd_proc_block BETWEEN '1943' AND '2016'
                )
            AND c.icd_code <> '3068800' -- QSM Ticket 1641
    )
    SELECT  @IsInValid = CASE
                            WHEN    EXISTS (
                                        SELECT TOP (1) 1
                                        FROM all_proceduresCTE
                                        WHERE   icd_Code IN (
                                                    SELECT icd_Code
                                                    FROM valid_proceduresCTE
                                                )
                                    )
                                AND NOT EXISTS (
                                        SELECT TOP (1) 1
                                        FROM all_proceduresCTE
                                        WHERE   icd_Code LIKE '9251[4-5][0-9][0-9]'
                                    )
```

```
                                                    AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0) = 1
                                                    AND REPLACE(@separation_date,'-','') >=
'20170701'

                            THEN 1
                            ELSE 0
                        END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

Updated Q1 Change Process 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4834: [Principal Diagnosis] or [Additional Diagnosis] of (D63) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (A188, A527, B54, B700, B769, or E039)

Pseudocode

```
IF
(
	[Principal Diagnosis] (data item 45) = D63
OR
	[Additional Diagnosis] (data item 46_001-46_099) = D63
)
AND
(
	[Principal Diagnosis] (data item 45) <> A188, A527, B54, B700, B769, or E039
OR
	[Additional Diagnosis] (data item 46_001-46_099) <> A188, A527, B54, B700, B769, or
E039
)
THEN
	ACCEPT submitted values
PRINT error message 4834: [Principal Diagnosis] or [Additional Diagnosis] of (D63) REQUIRES
	[Principal Diagnosis] or [Additional Diagnosis] of (A188, A527, B54, B700, B769, or
	E039)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Add D63 as [Principal Diagnosis] and [Additional Diagnosis].

Update data quality check

Update to include D63 as [Principal Diagnosis] and any [Additional Diagnosis] .

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed .

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4840: [Principal Diagnosis] or [Additional Diagnosis] is [Diagnosis] in system reference table with [External Cause Flag] of (Y) REQUIRES [External Cause]

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = ([Diagnosis] in system reference table with
        [External Cause Flag] = Y)
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = ([Diagnosis] in system reference
        table with [External Cause Flag] = Y)
)
AND
        [External Cause] (data item 47) is blank
THEN
        ACCEPT submitted values
        PRINT error message 4840: [Principal Diagnosis] or [Additional Diagnosis] is
        [Diagnosis] in system reference table with [External Cause Flag] of (Y) REQUIRES
        [External Cause]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
nullif(External_Cause,'') is null  and
(principal_diagnosis in vw_Codes_ICD10AM icd_ext_cause_flag 'Y' icd_code or
dbo.ValidateDelimitedField(additional_diagnosis,',',1,101) in vw_Codes_ICD10AM
icd_ext_cause_flag 'Y' icd_code ) --26
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4860: [Activity When Injured] of (U5000-U739) REQUIRES [External Cause]

Pseudocode

```
IF
        [External Cause] (data item 47) is blank
AND
        [Activity When Injured] (data item 93) = U5000-U739
THEN
        ACCEPT submitted values
        PRINT error message 4860: [Activity When Injured] of (U5000-U739) REQUIRES [External
        Cause]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(External_Cause is null  or
External_Cause = '' ) and
Activity_when_Injured between 'U5000' and 'U739'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4870: [Activity When Injured] of (U5000-U739), and [Additional Diagnosis] or [External Cause] not (V0000-Y34)

Pseudocode

```
IF
(
        [Activity When Injured] (data item 93) = U5000-U739
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> V0000-Y34
)
OR
(
        [Activity When Injured] (data item 93) = U5000-U739
        AND
        [External Cause] (data item 47) <> V0000-Y34
)
THEN
        PRINT error message 4870: [Activity When Injured] of (U5000-U739), and [Additional
        Diagnosis] or [External Cause] not (V0000-Y34)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid =

    CASE
    WHEN
    (
    @activity_when_injured BETWEEN 'U5000' AND 'U739'
    AND dbo.ContainsStrings('|V[0-9][0-9][0-9]|',@additional_diagnosis) = 0
    AND    dbo.ContainsStrings('|V[0-9][0-9]|',@additional_diagnosis) = 0
    AND    dbo.ContainsStrings('|W[0-9][0-9][0-9]|',@additional_diagnosis) = 0
    AND    dbo.ContainsStrings('|W[0-9][0-9]|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|X[0-9][0-9][0-9]|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|X[0-9][0-9]|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|Y0[0-9]%|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|Y1[0-9]%|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|Y2[0-9]%|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|Y3[0-4]%|',@additional_diagnosis) = 0
    AND dbo.ContainsStrings('|V[0-9][0-9][0-9]|',@external_cause) = 0
    AND dbo.ContainsStrings('|V[0-9][0-9]|',@external_cause) = 0
    AND dbo.ContainsStrings('|W[0-9][0-9][0-9]|',@external_cause) = 0
    AND dbo.ContainsStrings('|W[0-9][0-9]|',@external_cause) = 0
    AND dbo.ContainsStrings('|X[0-9][0-9][0-9]|',@external_cause) = 0
    AND dbo.ContainsStrings('|X[0-9][0-9]|',@external_cause) = 0
    AND dbo.ContainsStrings('|Y0[0-9]%|',@external_cause) = 0
    AND dbo.ContainsStrings('|Y1[0-9]%|',@external_cause) = 0
    AND dbo.ContainsStrings('|Y2[0-9]%|',@external_cause) = 0
    AND dbo.ContainsStrings('|Y3[0-4]%|',@external_cause) = 0
    )
    THEN 1
    ELSE 0
    END ;

    RETURN @IsInValid ;
END
```

Issue

If [Activity When Injured] is U5000-U739, then there is no point seeing if meets the subsequent criteria V0000-Y34.

Update data quality check

Updated Q1 Change Process 2022.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4880: [External Cause] of (V0000-Y34), and [Activity When Injured] not (U5000-U739)

Pseudocode

```
IF
        [External Cause] (data item 47) = V0000-Y34
AND
        [Activity When Injured] (data item 93) <> U5000-U739
THEN
        ACCEPT submitted values
        PRINT error message 4880: [External Cause] of (V0000-Y34), and [Activity When Injured]
        not (U5000-U739)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    IF (
        ISNULL(@External_Cause, '') BETWEEN 'V0000' AND 'Y34'
        AND
        ISNULL(@Activity_when_Injured, '') NOT BETWEEN 'U5000' AND 'U739'
    )
    BEGIN
        SET @IsInValid = 1 ;
    END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Updated December 2021 to remove default value.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4885: [Additional Diagnosis] of (V0000-Y34) REQUIRES [Additional Diagnosis] or [Activity When Injured] of (U5000-U739)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = V0000-Y34
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> U5000-U739
)
AND
(
        [Additional Diagnosis] (data item 46_001-46_099) = V0000-Y34
        AND
        [Activity When Injured] (data item 93) <> U5000-U739
)
THEN
        ACCEPT submitted values
        PRINT error message 4885: [Additional Diagnosis] of (V0000-Y34) REQUIRES [Additional
        Diagnosis] or [Activity When Injured] of (U5000-U739)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    /*
        Note:   Logic has been coaded exactly in the same order as it is mentioned in the
specification
                This has been done to keep things simple enough
    */

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_diagnosisCTE AS
    (
        SELECT  icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN
                                EXISTS (
                                    SELECT TOP (1) 1
                                    FROM additional_diagnosisCTE
                                    WHERE   icd_code BETWEEN 'V0000' AND 'Y34'
                                )
                                AND NOT EXISTS
                                (
                                    SELECT TOP (1) 1
                                    FROM additional_diagnosisCTE
                                    WHERE   icd_code BETWEEN 'U5000' AND 'U739'
                                )
                                AND ISNULL(@activity_when_injured, '') NOT BETWEEN 'U5000' AND
'U739'
                         THEN 1
                           ELSE 0
                        END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4890: [Principal Diagnosis] or [Additional Diagnosis] of (O601-O603, O620-O879, or O900-O909), or [Procedure] from (Block 1336–1340, Block 1343-1344, Block 1346-1347) REQUIRES [Additional Diagnosis] from (Z370-Z379, or Z3900-Z392)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O601-O603, O620-O879, or O900-O909
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = O601-O603, O620-O879, or O900-O909
        OR
        [Procedure] (data item 49_001-49_099) = Block 1336-1340, Block 1343-1344, or Block
        1346-1347
)
AND
(
        [Additional Diagnosis] (data item 46_001-46_099) <> Z370-Z379, or Z3900-Z392
)
THEN
        ACCEPT submitted data
        PRINT error message 4890: [Principal Diagnosis] or [Additional Diagnosis] of (O601-
        O603, O620-O879, or O900-O909), or [Procedure] from (Block 1336-1340, Block 1343-1344,
        or Block 1346-1347) REQUIRES [Additional Diagnosis] from (Z370-Z379, or Z3900-Z392)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;
    WITH valid_proceduresCTE AS
    (
        SELECT c.icd_code
        FROM [dbo].[vw_Codes_ICD10AM] c
        WHERE c.icd_proc_block BETWEEN '1336' AND '1340'
            OR c.icd_proc_block IN (
                                      '1343'
                                    , '1344'
                                    , '1346'
                                    , '1347'
                                  )

    --UNION

    --SELECT       c.icd_Code
    --FROM         (VALUES   ('1656400')
    --                     , ('1656401')
    --                     , ('9047102')
    --                     , ('9047103')
    --                     , ('9047104')
    --                     , ('9047105')
    --                     , ('9047106')
    --             ) AS c (icd_Code)
    )
       , all_procedureCTE AS
    (
        SELECT p.icd_code
        FROM (
                 VALUES (
                             @principal_procedure
                         )
             ) AS p (icd_code)
        WHERE NULLIF(p.icd_code, '') IS NOT NULL
        UNION
        SELECT icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
```

```
    , additional_diagnosisCTE AS
(
    SELECT icd_code = val
    FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
    WHERE val IS NOT NULL
)
    , all_diagnosisCTE AS
(
    SELECT icd_code
    FROM additional_diagnosisCTE
    UNION
    SELECT d.icd_code
    FROM (
             VALUES (
                        @principal_diagnosis
                    )
         ) AS d (icd_code)
    WHERE NULLIF(d.icd_code, '') IS NOT NULL
)
SELECT @IsInValid = CASE
                        WHEN (
                                 EXISTS (
                                            SELECT TOP (1) 1
                                            FROM all_diagnosisCTE d
                                            WHERE d.icd_code BETWEEN 'O601' AND 'O603'
                                                OR d.icd_code BETWEEN 'O620' AND 'O879'
                                                OR d.icd_code BETWEEN 'O900' AND 'O909'
                                        )
                                 OR EXISTS (
                                               SELECT TOP (1) 1
                                               FROM all_procedureCTE p
                                               WHERE p.icd_code IN (
                                                                       SELECT vp.icd_code
                                                                       FROM
valid_proceduresCTE vp
                                                                   )
                                           )
                             )
                        AND NOT EXISTS (
                                           SELECT TOP (1) 1
                                           FROM additional_diagnosisCTE ad
                                           WHERE ad.icd_code BETWEEN 'Z370' AND 'Z379'
                                               OR ad.icd_code BETWEEN 'Z3900' AND
'Z392'
                                       ) THEN 1
                        ELSE 0
                    END ;
    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4890A: [Principal Diagnosis] or [Additional Diagnosis] of (O601-O603, O620-O879, or O900-O909), or [Procedure] from (1656400-1656401, or 9047102-9047106) REQUIRES [Additional Diagnosis] from (Z370-Z379, or Z3900-Z392)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O601-O603, O620-O879, or O900-O909
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = O601-O603, O620-O879, or O900-O909
        OR
        [Procedure] (data item 49_001-49_099) = 1656400-1656401, or 9047102-9047106
)
AND
        [Additional Diagnosis] (data item 46_001-46_099) <> Z370-Z379, Z3900-Z392
THEN
        ACCEPT submitted data
        PRINT error message 4890A: [Principal Diagnosis] or [Additional Diagnosis] of (O601-
        O603, O620-O879, or O900-O909), or [Procedure] from (1656400-1656401, or 9047102-
        9047106) REQUIRES [Additional Diagnosis] from (Z370-Z379, or Z3900-Z392)
```

Status

Active.

Implementation

None.

Issue

None.

Update data quality check

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;

    WITH all_procedureCTE AS
    (
        SELECT p.icd_code
        FROM (
                 VALUES (
                             @principal_procedure
                         )
             ) AS p (icd_code)
        WHERE NULLIF(p.icd_code, '') IS NOT NULL
        UNION
        SELECT icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
    , additional_diagnosisCTE AS
    (
        SELECT icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE val IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT icd_code
        FROM additional_diagnosisCTE
        UNION
        SELECT d.icd_code
        FROM (
                 VALUES (
                             @principal_diagnosis
                         )
             ) AS d (icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
```

```
    SELECT @IsInValid = CASE
                            WHEN (
                                    EXISTS (
                                                SELECT TOP (1) 1
                                                FROM all_diagnosisCTE d
                                                WHERE d.icd_code BETWEEN 'O601' AND 'O603'
                                                    OR d.icd_code BETWEEN 'O620' AND 'O879'
                                                    OR d.icd_code BETWEEN 'O900' AND 'O909'
                                            )
                                    OR EXISTS (
                                                SELECT TOP (1) 1
                                                FROM all_procedureCTE p
                                                WHERE    p.icd_code BETWEEN '1656400' AND
'1656401'
                                                     OR  p.icd_code BETWEEN '9047102' AND
'9047106'
                                            )
                                )
                               AND NOT EXISTS (
                                                SELECT TOP (1) 1
                                                FROM additional_diagnosisCTE ad
                                                WHERE ad.icd_code BETWEEN 'Z370' AND 'Z379'
                                                    OR ad.icd_code BETWEEN 'Z3900' AND
'Z392'
                                            ) THEN 1
                            ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4891: [Principal Diagnosis] or [Additional Diagnosis] of (O600) DOES NOT REQUIRE [Additional Diagnosis] of (Z370-Z379)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O600
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z379
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O600
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z379
)
THEN
        ACCEPT submitted values
        PRINT error message 4891: [Principal Diagnosis] or [Additional Diagnosis] of (O600)
        DOES NOT REQUIRE [Additional Diagnosis] of (Z370-Z379)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(rtrim(principal_diagnosis) = 'O600' or
dbo.ContainsStrings('|O600|',additional_diagnosis) > 0 ) and
dbo.ContainsStrings('|Z37[0-7]|Z379|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4892: [Principal Diagnosis] or [Additional Diagnosis] of (O600) DOES NOT REQUIRE [Additional Diagnosis] of (Z3900-Z392)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O600
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z3900-Z392
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O600
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z3900-Z392
)
THEN
        ACCEPT submitted values
        PRINT error message 4892: [Principal Diagnosis] or [Additional Diagnosis] of (O600)
        DOES NOT REQUIRE [Additional Diagnosis] of (Z3900-Z392)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(rtrim(Principal_Diagnosis) = 'O600' or
dbo.ContainsStrings('|O600|',additional_Diagnosis) > 0 ) and
dbo.ContainsStrings('|Z390|Z3900|Z3901|Z3902|Z3903|Z391|Z392|',additional_Diagnosis) > 0
```

Issue

None.

Update data quality check

Data quality check logic and error message updated to reflect change to additional diagnosis range Z3900 – Z392, no change to Health Validator code.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4893: [Procedure] from (1657300, or 9048100) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O700-O709)

Pseudocode

```
IF
(
        [Procedure] (data item 49_001-49_099) = 1657300, or 9048100
        AND
        [Principal Diagnosis] (data item 45) <> O700-O709
)
OR
(
        [Procedure] (data item 49_001-49_099) = 1657300, or 9048100
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O700-O709
)
THEN
        ACCEPT submitted value
        PRINT error message 4893: [Procedure] from (1657300, or 9048100) REQUIRES [Principal
        Diagnosis] or [Additional Diagnosis] of (O700-O709)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(rtrim(principal_diagnosis) not in ('O700','O701','O702','O703','O709') and
dbo.ContainsStrings('|O700|O701|O702|O703|O709|',additional_diagnosis) = 0 ) and
(principal_procedure in ('1657300','9048100') or
dbo.ContainsStrings('|1657300|9048100|',additional_procedure) > 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4895: [Principal Diagnosis] or [Additional Diagnosis] of (O700-O709) REQUIRES [Procedure] from (1657300, 9047200, or 9048100)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O700-O709
        AND
        [Procedure] (data item 49_001-49_099) <> 1657300, 9047200, or 9048100
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O700-O709
        AND
        [Procedure] (data item 49_001-49_099) <> 1657300, 9047200, or 9048100
)
THEN
        ACCEPT submitted values
        PRINT error message 4895: [Principal Diagnosis] or [Additional Diagnosis] of (O700-
        O709) REQUIRES [Procedure] from (1657300, 9047200, or 9048100)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(rtrim(principal_diagnosis) in
('O700','O701','O702','O703','O704','O705','O706','O707','O708','O709') or
dbo.ContainsStrings('|O700|O701|O702|O703|O704|O705|O706|O707|O708|O709|',additional_diagnosis
) > 0 ) and
(principal_procedure not in ('1657300','9048100','9047200') and
dbo.ContainsStrings('|1657300|9048100|9047200|',additional_procedure) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4896: [Hospital Number] not (0035) NOT COMPATIBLE WITH [Additional Diagnosis] of (Z379)

Pseudocode

```
IF
(
        [Hospital Number] (data item 01) <> 0035
        AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z379
)
THEN
        ACCEPT submitted data
        PRINT error message 4896: [Hospital Number] not (0035) NOT COMPATIBLE WITH [Additional
        Diagnosis] of (Z379)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
hospital_code <> '0035' and
dbo.ContainsStrings('|Z379|',additional_diagnosis) > 0
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4897: [Principal Diagnosis] or [Additional Diagnosis] of (O601-O759, O85-O879, or O900-O909) REQUIRES [Principal Diagnosis] or [Additional Diagnosis] of (O80-O849, or Z3900-Z3903)

Pseudocode

```
IF
(

        [Principal Diagnosis] (data item 45) = O601-O759, O85-O879, or O900-O909
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O80-O849, or Z3900-Z3903
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O601-O759, O85-O879, or O900-O909
        AND
        [Principal Diagnosis] (data item 45) <> O80-O849, or Z3900-Z3903
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O601-O759, O85-O879, or O900-O909
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O80-O849, or Z3900-Z3903
)
THEN
        ACCEPT submitted values
        PRINT error message 4897: [Principal Diagnosis] or [Additional Diagnosis] of (O601-
        O759, O85-O879, or O900-O909) REQUIRES [Principal Diagnosis] or [Additional Diagnosis]
        of (O80-O849, or Z3900-Z3903)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    /*
        Note:   Logic has been coaded exactly in the same order as it is mentioned in the
specification
                This has been done to keep things simple enough
    */

    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_diagnosisCTE AS
    (
        SELECT  icd_code = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
    )
    , all_diagnosisCTE AS
    (
        SELECT  icd_code
        FROM additional_diagnosisCTE
        UNION
        SELECT d.icd_code
        FROM (VALUES(@principal_diagnosis)) d(icd_code)
        WHERE NULLIF(d.icd_code, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN
                                --(
                                --    (
                                --        @principal_diagnosis BETWEEN 'O601' AND 'O759'
                                --        OR
                                --        @principal_diagnosis BETWEEN 'O85' AND 'O879'
                                --        OR
                                --        @principal_diagnosis BETWEEN 'O89' AND 'O909'
                                --    )
                                --    AND NOT EXISTS
                                --    (
```

```
                        --        SELECT TOP (1) 1
                        --        FROM additional_diagnosisCTE
                        --        WHERE   icd_code BETWEEN 'O80' AND 'O849'
                        --            OR  icd_code BETWEEN 'Z3900' AND 'Z3903'
                        --    )
                        --)
                        --OR
                        --(
                        --    (
                        --        @principal_diagnosis NOT BETWEEN 'O80' AND 'O849'
                        --        AND
                        --        @principal_diagnosis NOT BETWEEN 'Z3900' AND 'Z3903'
                        --    )
                        --    AND EXISTS
                        --    (
                        --        SELECT TOP (1) 1
                        --        FROM additional_diagnosisCTE
                        --        WHERE   icd_code BETWEEN 'O601' AND 'O759'
                        --            OR  icd_code BETWEEN 'O85' AND 'O879'
                        --            OR  icd_code BETWEEN 'O89' AND 'O909'
                        --    )
                        --)
                        --OR
                        (
                            NOT EXISTS
                            (
                                SELECT TOP (1) 1
                                FROM all_diagnosisCTE
                                WHERE   icd_code BETWEEN 'O80' AND 'O849'
                                    OR  icd_code BETWEEN 'Z3900' AND 'Z3903'
                            )
                            AND EXISTS
                            (
                                SELECT TOP (1) 1
                                FROM all_diagnosisCTE
                                WHERE   icd_code BETWEEN 'O601' AND 'O759'
                                    OR  icd_code BETWEEN 'O85' AND 'O879'
                                    OR  icd_code BETWEEN 'O89' AND 'O909'
                            )
                        )
                    THEN 1
                    ELSE 0
                END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4898: [Additional Diagnosis] of (Z370-Z379) REQUIRES [Principal Diagnosis] of (O040-O049, or O80-O849), or [Additional Diagnosis] of (O80-O849)

Pseudocode

```
IF
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z379
        AND
        [Principal Diagnosis] (data item 45) <> O80-O849 or O040-O049
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z379
        AND
        [Additional Diagnosis] (data item 46_001-46_099) <> O80-O849
)
THEN
        ACCDPT submitted values
        PRINT error message 4898: [Additional Diagnosis] of (Z370-Z379) REQUIRES [Principal
        Diagnosis] of (O040-O049, or O80-O849), or [Additional Diagnosis] of (O80-O849)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
UPDATE [HealthValidator].[dbo].[ValidationSetExpressions] SET [description] = '[Additional
Diagnosis] of (Z370-Z379) REQUIRES [Principal Diagnosis] of (O040-O049, or O80-O849), or
[Additional Diagnosis] of (O80-O849)'
```

Issue

None.

Update data quality check

Updated to include O040-O049 as [Principal Diagnosis].

Updated Q1 Change Process 2022.

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4900: Duplicate Diagnosis code from [Principal Diagnosis], [Additional Diagnosis], [External Cause], [Place Of Occurrence], and/or [Activity When Injured] DELETES duplicate Diagnosis code

Pseudocode

```
IF
        Same Diagnosis code is recorded twice in either:
        [Principal Diagnosis] (data item 45)
AND/OR
        [Additional Diagnosis] (data item 46_001-46_099)
AND/OR
        [External Cause] (data item 47)
AND/OR
        [Place Of Occurrence] (data item 94)
AND/OR
        [Activity When Injured] (data item 93)
THEN
        DELETE second occurrence of the code
        PRINT error message 4900: Duplicate Diagnosis code from [Principal Diagnosis],
        [Additional Diagnosis], [External Cause], [Place Of Occurrence], and/or [Activity When
        Injured] DELETES duplicate Diagnosis code
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInvalid INT,
            @AddDiagCodes VARCHAR(2000) ;

    WITH AddDiagCTE (Codes) AS
         (
         SELECT val FROM dbo.ValidateDelimitedField(@additional_diagnosis,',',1,101)
         WHERE val IS NOT NULL
         FOR XML PATH ('')
         )
         SELECT @AddDiagCodes = ISNULL(REPLACE(REPLACE(REPLACE(Codes,'</VAL><VAL>',','),
'<VAL>', ''), '</VAL>', ''), '')
         FROM AddDiagCTE

    SELECT @IsInvalid = CASE
    WHEN EXISTS
         (SELECT TOP 1 * FROM
[dbo].[Edit_Helper_4900](@principal_diagnosis,@additional_diagnosis,@additional_diagnosis_cond
ition_onset_flag,@external_cause,@external_cause_condition_onset_flag,@place_of_occurrence,@pl
ace_of_occurrence_condition_onset_flag,@activity_when_injured,@activity_when_injured_condition
_onset_flag)
         WHERE replace(@AddDiagCodes,' ','')     <>     isnull(replace(additional_diagnosis,'
','')
,'')
         or (LTRIM(RTRIM(@principal_diagnosis))     =     LTRIM(RTRIM(@external_cause)) and(
LTRIM(RTRIM(@principal_diagnosis)) <> ''))
         or (LTRIM(RTRIM(@principal_diagnosis))     = LTRIM(RTRIM(@place_of_occurrence))and(
LTRIM(RTRIM(@principal_diagnosis)) <> ''))
         or (LTRIM(RTRIM(@principal_diagnosis))     = LTRIM(RTRIM(@activity_when_injured))and(
LTRIM(RTRIM(@principal_diagnosis)) <> ''))
         or (LTRIM(RTRIM(@external_cause))     = LTRIM(RTRIM(@place_of_occurrence)) and
(nullif(@external_cause,'')) is not null     )
         or (LTRIM(RTRIM(@external_cause)) = LTRIM(RTRIM(@activity_when_injured)) and
(nullif(@external_cause,'')) is not null)
         or (LTRIM(RTRIM(@place_of_occurrence)) = LTRIM(RTRIM(@activity_when_injured)) and
(nullif(@place_of_occurrence,''))     is not null))
         THEN 1
         ELSE 0
    END

RETURN @IsInvalid
END
```

```
[dbo].[Edit_Helper_4900]

BEGIN
    WITH additionalDiagCTE AS
    (
        SELECT    SequenceNumber            = ROW_NUMBER() OVER ( ORDER BY diag.Id ASC)
                , DiagCodeSequenceNumber    = ROW_NUMBER() OVER (PARTITION BY diag.val1 ORDER
BY diag.Id ASC)
                , DiagnosisCode             = diag.val1
                , DiagnosisCodeCof          = diag.val2
        FROM dbo.Validate_2_DelimitedFields_Id(@additional_diagnosis,
@additional_diagnosis_condition_onset_flag , ',', ',', 1, 101) diag
        WHERE   diag.val1 NOT IN ( -- Remove if they exist in any other data fields
                    @principal_diagnosis
                , @external_cause
                , @place_of_occurrence
                , @activity_when_injured
                )
    )
    , deDuplicatedCodeCTE (AD) AS
    (
        SELECT  AD = data.DiagnosisCode
        FROM additionalDiagCTE data
        WHERE   data.DiagCodeSequenceNumber = 1 -- Just pick the 1st occurence
        ORDER BY data.SequenceNumber
        FOR XML PATH ('')
    )
    , deDuplicatedCodeCofCTE (ADcof) AS
    (
        SELECT  ADcof = data.DiagnosisCodeCof
        FROM additionalDiagCTE data
        WHERE   data.DiagCodeSequenceNumber = 1 -- Just pick the 1st occurence
        ORDER BY data.SequenceNumber
        FOR XML PATH ('')
    )
    INSERT INTO @Result
    SELECT    additional_diagnosis                          =
ISNULL(REPLACE(REPLACE(REPLACE(codeList.AD,'</AD><AD>',','), '<AD>', ''), '</AD>', ''), '')
            , additional_diagnosis_condition_onset_flag     =
ISNULL(REPLACE(REPLACE(REPLACE(cofList.ADcof,'</ADcof><ADcof>',','), '<ADcof>', ''),
'</ADcof>', ''), '')
            , external_cause                                = CASE
                                                                WHEN @principal_diagnosis =
@external_cause
                                                                THEN ''
                                                                ELSE @external_cause
                                                              END
            , external_cause_condition_onset_flag           = CASE
                                                                WHEN @principal_diagnosis =
@external_cause
                                                                THEN ''
                                                                ELSE
@external_cause_condition_onset_flag
                                                              END
            , place_of_occurrence                           = CASE
                                                                WHEN @place_of_occurrence IN
(@principal_diagnosis, @external_cause)
                                                                THEN ''
                                                                ELSE @place_of_occurrence
                                                              END
            , place_of_occurrence_condition_onset_flag      = CASE
                                                                WHEN @place_of_occurrence IN
(@principal_diagnosis, @external_cause)
                                                                THEN ''
                                                                ELSE
@place_of_occurrence_condition_onset_flag
                                                              END
            , activity_when_injured                         = CASE
                                                                WHEN @activity_when_injured IN
(@principal_diagnosis, @external_cause, @place_of_occurrence)
                                                                THEN ''
                                                                ELSE @activity_when_injured
                                                              END
            , activity_when_injured_condition_onset_flag    = CASE
                                                                WHEN @activity_when_injured IN
(@principal_diagnosis, @external_cause, @place_of_occurrence)
```

```
                                                    THEN ''
                                                    ELSE
@activity_when_injured_condition_onset_flag
                                                END

    FROM deDuplicatedCodeCTE codeList
    CROSS APPLY deDuplicatedCodeCofCTE cofList

    RETURN ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4904: [Principal Diagnosis] or [Additional Diagnosis] of (O80, or O840) REQUIRES [Procedure] Code Block 1336

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O80, or O840
        AND
        [Procedure] (data item 49_001-49_099) <> Block 1336
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O80, or O840
        AND
        [Procedure] (data item 49_001-49_099) <> Block 1336
)
THEN
        ACCEPT submitted values
        PRINT error message 4904: [Principal Diagnosis] or [Additional Diagnosis] of (O80, or
        O840) REQUIRES [Procedure] Code Block 1336
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Removing [Procedure] code 9046700 and 9047000 and adding Block 1336.

Update data quality check

Updated to replace [Procedure] code 9046700 and 9047000 with Block 1336.

Result

The pseudocode for this data quality check has been changed.
The error message for this data quality check has been changed.

Action

The error message for this data quality check has been updated.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4905: [Principal Diagnosis] or [Additional Diagnosis] of (O757) NOT COMPATIBLE WITH [Procedure] from (1652000, 1652001, 1652002, 1652003, 1652004, or 1652005)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O757
        AND
        [Procedure] (data item 49_001-49_099) = 1652000, 1652001, 1652002, 1652003, 1652004,
1652005
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O757
        AND
        [Procedure] (data item 49_001-49_099) = 1652000, 1652001, 1652002, 1652003, 1652004,
1652005
)
THEN
        ACCEPT submitted values
        PRINT error message 4905: [Principal Diagnosis] or [Additional Diagnosis] of (O757)
        NOT COMPATIBLE WITH [Procedure] from (1652000, 1652001, 1652002, 1652003, 1652004, or
        1652005)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT    @IsInValid =    CASE
                                WHEN
                                    (
                                        (
                                            @principal_diagnosis = 'O757'
                                            OR
dbo.ContainsStrings('|O757|',@additional_diagnosis) > 0
                                        )
                                        AND
                                        (
                                            @principal_procedure BETWEEN '1652000' AND
'1652005'
                                            AND dbo.ContainsStrings('|165200[0-
5]|',@additional_procedure) > 0
                                        )
                                    )
                                THEN 1
                                ELSE 0
                            END ;

    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4906: [Principal Diagnosis] or [Additional Diagnosis] of (O83, or O8481) REQUIRES [Procedure] from (9046803, 9046805, 9046901, 9047001, 9047003, 9047300, 9047400, 9047500, 9047600, 9047700, 9047702, 9048200, 1651400, or Block 1342)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O83, O8481
        AND
        [Procedure] (data item 49_001-49_099) <> 9046803, 9046805, 9046901, 9047001, 9047003,
        9047300, 9047400, 9047500, 9047600, 9047700, 9047702, 9048200, 1651400, or Block 1342
)
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O83, O8481
        AND
        [Procedure] (data item 49_001-49_099) <> 9046803, 9046805, 9046901, 9047001, 9047003,
        9047300, 9047400, 9047500, 9047600, 9047700, 9047702, 9048200, 1651400, or Block 1342
)
THEN
        ACCEPT submitted values
        PRINT error message 4906: [Principal Diagnosis] or [Additional Diagnosis] of (O83, or
        O8481) REQUIRES [Procedure] from (9046803, 9046805, 9046901, 9047001, 9047003,
        9047300, 9047400, 9047500, 9047600, 9047700, 9047702, 9048200, 1651400, or Block 1342)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

Issue

Update data quality check

Updated 1 July 2022

Result

Action

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4907: [Principal Diagnosis] or [Additional Diagnosis] of (O8482) REQUIRES one procedure from each of Blocks (1336 & 1337, 1336 & 1338, 1336 & 1339, 1336 & 1340, 1337 & 1338, 1337 & 1339, 1337 & 1340, 1338 & 1339, 1338 & 1340, or 1339 & 1340)

Pseudocode

```
IF
(
	[Principal Diagnosis] (data item 45) = O8482
	AND
	(
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1337
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1338
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1339
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1340
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1337, and Block 1338
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1337, and Block 1339
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1337, and Block 1340
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1338, and Block 1339
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1338, and Block 1340
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1339, and Block 1340
	)
OR
(
	[Additional Diagnosis] (data item 46_001-46_099) = O8482
	AND
	(
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1337
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1338
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1339
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1336, and Block 1340
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1337, and Block 1338
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1337, and Block 1339
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1337, and Block 1340
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1338, and Block 1339
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1338, and Block 1340
		OR
		[Procedure] (data item 49_001-49_099) <> Block 1339, and Block 1340
	)
)
THEN
	ACCEPT submitted values
	PRINT error message 4907: [Principal Diagnosis] or [Additional Diagnosis] of (O8482)
	REQUIRES one procedure from each of Blocks (1336 & 1337, 1336 & 1338, 1336 & 1339,
	1336 & 1340, 1337 & 1338, 1337 & 1339, 1337 & 1340, 1338 & 1339, 1338 & 1340, or 1339
	& 1340)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
```

```
    DECLARE @IsInValid  SMALLINT = 0 ;

    SELECT  @IsInValid = CASE
                             WHEN
                             (

                             -- Below are conditions for ADx AND PDx (Combination group #1)
                                 (
                                     (
                                         RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                         OR
                                         dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                     )
                                 AND (
                                         RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1337'))
                                         OR
                                         (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1337'))) IS NULL
                                     )
                                 )
                             AND
                                 (
                                     (
                                         RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                         OR
                                         dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                     )
                                 AND (
                                         RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1338'))
                                         OR
                                         (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1338'))) IS NULL
                                     )
                                 )
                             AND
                                 (
                                     (
                                         RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                         OR
                                         dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                     )
                                 AND (
                                         RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1339'))
                                         OR
                                         (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1339'))) IS NULL
                                     )
                                 )
                             AND
                                 (
                                     (
                                         RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                         OR
                                         dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                     )
                                 AND (
                                         RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1340'))
                                         OR
                                         (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1336','1340'))) IS NULL
                                     )
                                 )
                             AND
                                 (
                                     (
```

```
                                        RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                        OR
                                        dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                    )
                                AND (
                                        RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1337','1338'))
                                        OR
                                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1337','1338'))) IS NULL
                                    )
                                )
                            AND
                                (
                                    (
                                        RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                        OR
                                        dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                    )
                                AND (
                                        RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1337','1339'))
                                        OR
                                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1337','1339'))) IS NULL
                                    )
                                )

                            -- ADx Only
                            AND         (
                                        dbo.ContainsStrings('|O8482|',@additional_diagnosis) >
0
                                        AND
                                        (
                                            RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1337','1340'))
                                            OR
                                            (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1337','1340'))) IS NULL
                                        )
                                    )
                            )

                            ---- PDx Only (Combination group #2)
                            OR
                            (
                                (
                                    RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                    AND
                                    (
                                        RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1338','1339'))
                                        OR
                                        (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1338','1339'))) IS NULL
                                    )
                                )
                                AND
                                    (
                                        RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                        AND
                                        (
                                            RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1338','1340'))
                                            OR
                                            (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1338','1340'))) IS NULL
                                        )
                                    )
                                AND
```

```
                                    (
                                        RTRIM(LTRIM(@principal_diagnosis)) = 'O8482'
                                        AND
                                        (
                                            RTRIM(LTRIM(@principal_procedure)) NOT IN (SELECT
icd_Code FROM [dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1339','1340'))
                                            OR
                                            (SELECT TOP 1 val FROM dbo.ValidateDelimitedField
(@additional_procedure, ',', 1, 101) WHERE val IN (SELECT icd_Code FROM
[dbo].[vw_Codes_ICD10AM] WHERE icd_proc_block IN ('1339','1340'))) IS NULL
                                        )
                                    )
                                )

                                AND HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-
','',''),'',0) = 1
                                AND REPLACE(@separation_date,'-','') >= '20170701'

                                THEN 1
                                ELSE 0
                            END

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4910: [Procedure Location Indicator] not (1, or 2) or blank, and Principal [Procedure] or Additional [Procedure] not blank

Pseudocode

```
IF
(
	Principal [Procedure] (data item 49_001) is not blank
	OR
	Additional [Procedure] (data item 49_002-49_099) is not blank
)
AND
(
	[Procedure Location Indicator] (data item 85_001-85_099) is blank
	AND
	[Procedure Location Indicator] (data item 85_001-85_099) <> 1 (This hospital)
	AND
	[Procedure Location Indicator] (data item 85_001-85_099) <> 2 (Other hospital)
)
THEN
	ACCEPT submitted values
	PRINT error message 4910: [Procedure Location Indicator] not (1, or 2) or blank, and
	Principal [Procedure] or Additional [Procedure] not blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_procedure, additional_procedure_location
,',',',',1,101)
(((nullif(Principal_procedure,'') is not null  ) and
(nullif(Principal_procedure_location,'') is null  or
(Principal_procedure_location <> '1' and
Principal_procedure_location <> '2' )))) or
(((nullif(val1,'') is not null  ) and
(nullif(val2,'') is null  or
(val2 <> '2' and
val2 <> '1' ))))
```

Issue

None.

Update data quality check

Update December 2021 to remove default value.

Result

None.

Action

None.

4920: [Procedure Location Indicator] of (1, or 2), and Additional [Procedure] is blank

Pseudocode

```
IF
	Additional [Procedure] (data item 49_002-49_099) is blank
AND
(
	[Procedure Location Indicator] (data item 85_001-85_099) = 1 (This hospital)
	OR
	[Procedure Location Indicator] (data item 85_001-85_099) = 2 (Other hospital)
)
THEN
	PRINT error message 4920: [Procedure Location Indicator] of (1, or 2), and Additional
	[Procedure] is blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_procedure, additional_procedure_location
,',',',',1,101)
(((nullif(val1,'') is null  ) and
(nullif(val2,'') is not null  )))
```

Issue

Updated December 2021.

Update data quality check

Removed default values.

Result

None.

Action

None.

4920A: [Procedure Location Indicator] of (1, or 2), and Principal [Procedure] is blank

Pseudocode

```
IF
(
        Principal [Procedure] (data item 49_001) is blank
AND
        [Procedure Location Indicator] (data item 85_001-85_099) = 1 (This hospital)
        OR
        [Procedure Location Indicator] (data item 85_001-85_099) = 2 (Other hospital)
)
THEN
        PRINT error message 4920A: [Procedure Location Indicator] of (1, or 2), and Principal
        [Procedure] is blank
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(((nullif(Principal_procedure,'') is null  ) and
(nullif(Principal_procedure_location,'') is not null  )))
```

Issue

Updated December 2021.

Update data quality check

Removed default values.

Result

None.

Action

None.

4930: [Contracted Service Hospital Number] <> 0000, [Contracted Service Patient Unit Record Number] <> 0000000000, or [Contracted Service Admission Date] <> 00000000 REQUIRES [Procedure Location Indicator] of (2)

Pseudocode

```
IF
(
        [Contracted Service Hospital Number] (data item 65) <> 0000
        AND
        [Contracted Service Patient Unit Record Number] (data item 63) <> 0000000000
        AND
        [Contracted Service Admission Date] (data item 64) <> 00000000
)
AND
(
        [Procedure Location Indicator] (data item 85_001-85_099) <> 2 (Other hospital)
)
AND
        [Source Of Referral] (data item 16) <> 7 (Contracted Service)
THEN
        ACCEPT submitted values
        PRINT error message 4930: [Contracted Service Hospital Number] <> 0000, [Contracted
        Service Patient Unit Record Number] <> 0000000000, or [Contracted Service Admission
        Date] <> 00000000 REQUIRES [Procedure Location Indicator] of (2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInvalid INT ;
    SELECT @IsInvalid = CASE
    WHEN (@contract_provider_hospital_patient_unit_number <> '0000000000'
           OR @date_admitted_to_contract_provider_hospital_original <> '00000000'
           OR @provider_of_contract_services_hospital_number <> '0000')
         AND (@principal_procedure_location <> '2' AND
DBO.CONTAINSSTRINGS('|2|',@additional_procedure_location) = 0)
         AND @source_of_referral <> '7'
        THEN 1
        ELSE 0
    END
RETURN @IsInvalid
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4940: [Place Of Occurrence] of (Y9200-Y929) REQUIRES [External Cause]

Pseudocode

```
IF
        [External Cause] (data item 47) is blank
AND
        [Place Of Occurrence] (data item 94) = Y9200-Y929
THEN
        ACCEPT submitted values
        PRINT error message 4940: [Place Of Occurrence] of (Y9200-Y929) REQUIRES [External
        Cause]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(external_cause = '' or
external_cause is null  ) and
place_of_occurrence between 'Y9200' and 'Y929'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4950: Place Of Occurrence = Y9200-Y929 and [External Cause] or [Additional Diagnosis] not (V0000-Y899)

Pseudocode

```
IF
(
        [External Cause] (data item 47) <> V0000-Y899
        OR
        [Additional Diagnosis] (data item 46_001-46_099) <> V0000-Y899
)
AND
        [Place Of Occurrence] (data item 94) = Y9200-Y929
THEN
        PRINT error message 4950: Place Of Occurrence = Y9200-Y929 and [External Cause] or
        [Additional Diagnosis] not (V0000-Y899)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN

    DECLARE @IsInvalid INT ;

    SELECT @IsInvalid = CASE
    WHEN (
          @external_cause NOT BETWEEN 'V000' AND 'Y899'
          OR
          dbo.ContainsStrings('|[V-Y[0-8][0-9]%|',@additional_diagnosis) = 0
        )
        AND @place_of_occurrence BETWEEN 'Y9200' AND 'Y929'
        THEN 1
        ELSE 0
    END

RETURN @IsInvalid
END
```

Issue

None.

Update data quality check

Updated December 2022 to remove defaulting of [Place of Occurrence] and [Condition Onset Flag]

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4960: [Place Of Occurrence] not (Y9200-Y929), and [External Cause] or [Additional Diagnosis] not (V0000-Y899)

Pseudocode

```
IF
(
        [External Cause] (data item 47) = V0000-Y899
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = V0000-Y899
)
AND
        [Place Of Occurrence] (data item 94) <> Y9200-Y929
THEN
        PRINT error message 4960: [Place Of Occurrence] not (Y9200-Y929), and [External Cause]
        or [Additional Diagnosis] not (V0000-Y899)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;
    WITH additionalDiagnosisCTE AS
    (
        SELECT DiagnosisCode = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE NULLIF(val, '') IS NOT NULL
    )
    SELECT @IsInValid = CASE
                            WHEN (
                                    @external_cause BETWEEN 'V0000' AND 'Y899'
                                    OR EXISTS (
                                                SELECT TOP (1) 1
                                                FROM additionalDiagnosisCTE
                                                WHERE DiagnosisCode BETWEEN 'V0000' AND
'Y899'
                                              )
                                )
                               AND ISNULL (@place_of_occurrence, '') NOT BETWEEN 'Y9200' AND
'Y929' THEN 1
                            ELSE 0
                        END ;
    RETURN @IsInValid ;
END ;
```

Issue

None

Update data quality check

Updated December 2021 to removed default values.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4963: [Condition Onset Flag] for [Additional Diagnosis] SHOULD BE (2)

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = (Any Diagnosis code in system
        reference table with [Condition Onset Flag] = 2)
AND
        [Condition Onset Flag] for [Additional Diagnosis] (data item 97_001-97_099) = 1
        (During care)
THEN
        ACCEPT submitted values
        PRINT error message 4963: [Condition Onset Flag] for [Additional Diagnosis] SHOULD BE
        (2)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH additional_diagnosis_And_Onset_FlagCTE AS
    (
        SELECT      Icd_Code        = data.val1
                , Onset_Flag    = data.val2
        FROM dbo.Validate_2_DelimitedFields(@additional_diagnosis,
@additional_diagnosis_condition_onset_flag , ',', ',', 1, 101) data
        WHERE    NULLIF(data.val1, '') IS NOT NULL
    )
    , valid_Type2_IcdCTE AS
    (
        SELECT [icd_code]
        FROM [CODES].[ICD10AM]
        WHERE    cof = 2
            AND icd_type = 'D'
    )
    SELECT @IsInValid = CASE
                            WHEN    EXISTS (
                                        SELECT TOP (1) 1
                                        FROM additional_diagnosis_And_Onset_FlagCTE adof
                                        WHERE    adof.Icd_Code IN (
                                                    SELECT v.Icd_Code FROM valid_Type2_IcdCTE
v
                                                )
                                            AND adof.Onset_Flag = '1' -- Should be <> 2
                                    )
                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4964: [Condition Onset Flag] for [Additional Diagnosis] SHOULD BE (1)

Pseudocode

```
IF      [Additional Diagnosis] (data item 46_001-46_099) = (Any Diagnosis code in system
        reference table with [Condition Onset Flag] = 1)
AND
        [Condition Onset Flag] for [Additional Diagnosis] (data item 97_001-97_099) = 2
        (During care)
THEN    ACCEPT submitted values
        PRINT error message 4964: [Condition Onset Flag] for [Additional Diagnosis] SHOULD BE
        (1)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid SMALLINT = 0 ;

    WITH additional_diagnosis_And_Onset_FlagCTE AS
    (
        SELECT Icd_Code    = data.val1
             , Onset_Flag = data.val2
        FROM dbo.Validate_2_DelimitedFields (@additional_diagnosis,
@additional_diagnosis_condition_onset_flag, ',', ',', 1, 101) data
        WHERE NULLIF(data.val1, '') IS NOT NULL
    )
       , valid_Type1_IcdCTE AS
    (
        SELECT [icd_code]
        FROM [Codes].[ICD10AM]
        WHERE cof        = 1
            AND icd_type = 'D'
    )
    SELECT @IsInValid = CASE
                            WHEN EXISTS (
                                            SELECT TOP (1) 1
                                            FROM additional_diagnosis_And_Onset_FlagCTE adof
                                            WHERE adof.Icd_Code IN (
                                                                    SELECT v.icd_code
                                                                    FROM valid_Type1_IcdCTE
v
                                                                )
                                                AND adof.Onset_Flag = '2' -- Should be <> 1
                                        ) THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4965: [Condition Onset Flag] for [Principal Diagnosis] not (2) and [Principal Diagnosis] is valid DEFAULTS [Condition Onset Flag] for [Principal Diagnosis] to (2)

Pseudocode

```
IF
(
	[Condition Onset Flag] for [Principal Diagnosis ] (data item 97) <> 2 (Not during
	care)
	AND
	[Principal Diagnosis] (data item 45) is valid
)
THEN
	DEFAULT [Condition Onset Flag] for [Principal Diagnosis ] (data item 97) = 2 (Not
	during care)
	PRINT error message 4965: [Condition Onset Flag] for [Principal Diagnosis ] not (2)
	and [Principal Diagnosis] is valid DEFAULTS [Condition Onset Flag] for [Principal
	Diagnosis ] to (2)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
principal_diagnosis_condition_onset_flag <>    '2' and
Principal_Diagnosis in vw_Codes_ICD10AM   icd_code
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4966: [Condition Onset Flag] for [Additional Diagnosis] not (2) and [Additional Diagnosis] of (Z370-Z377, Z379-Z388, or Z479) REQUIRES [Condition Onset Flag] for [Additional Diagnosis] of (2)

Pseudocode

```
IF
(
	[Additional Diagnosis] (data item 46_001-46_099) = Z370-Z377, Z379-Z3388, or Z479
AND
	[Condition Onset Flag] for [Additional Diagnosis ] (data item 97_001-97_099) <> 2 (Not
	during care)
)
THEN
	ACCEPT submitted values
	PRINT error message 4966: [Condition Onset Flag] for [Additional Diagnosis ] not (2)
	and [Additional Diagnosis] of (Z370-Z377, Z379-Z388, or Z479) REQUIRES [Condition
	Onset Flag] for [Additional Diagnosis ] of (2)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_diagnosis,additional_diagnosis_condition_onset_flag
,',',',',1,26)
val1 in
('Z479','Z370','Z371','Z372','Z373','Z374','Z375','Z376','Z377','Z379','Z380','Z381','Z382','Z
383','Z384','Z385','Z386','Z387','Z388') and
val2 <>    '2'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4967: [Principal Diagnosis] or [Additional Diagnosis] of (O000-O099, or O80-O85) and [Condition Onset Flag] for [Principal Diagnosis] or [Condition Onset Flag] for [Additional Diagnosis] of (1) REQUIRES [Diagnosis Condition Onset Flag] of (2)

Pseudocode

```
IF
(
        (
                [Principal Diagnosis] (data item 45) = O000-O099
                OR
                [Principal Diagnosis] (data item 45) = O80-O85
)
        AND
        [Condition Onset Flag] for [Principal Diagnosis ] (data item 97) = 1 (During care)
OR
        (
                [Additional Diagnosis] (data item 46_001-46_099) = O000-O099
                OR
                [Additional Diagnosis] (data item 46_001-46_099) = O80-O85
)
        AND
        [Condition Onset Flag] for [Additional Diagnosis ] (data item 97 001-97 099) = 1
        (During care)
)
THEN
        ACCEPT submitted values
        PRINT error message 4967: [Principal Diagnosis] or [Additional Diagnosis] of (O000-
        O099, or O80-O85) and [Condition Onset Flag] for [Principal Diagnosis ] or [Condition
        Onset Flag] for [Additional Diagnosis ] of (1) REQUIRES [Diagnosis Condition Onset
        Flag] of (2)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_diagnosis,additional_diagnosis_condition_onset_flag
,',',',',1,26)
(dbo.ContainsStrings('|O0[0-9][0-9]|O8[0-4]|',val1) >    0 and
val2 =    '1' ) or
(dbo.ContainsStrings('|O0[0-9][0-9]|O8[0-4]|',principal_diagnosis) >    0 and
principal_diagnosis_condition_onset_flag =    '1' )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4968: [Condition Onset Flag] for [Principal Diagnosis] or [Additional Diagnosis] SHOULD BE (1) for [Principal Diagnosis] or [Additional Diagnosis] of (O85–O909), and [Additional Diagnosis] of (Z370–Z379)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O85-O909
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = O85-O909
)
AND
        [Additional Diagnosis] (data item 46_001-46_099) = Z370-Z379
AND
(
        corresponding [Condition Onset Flag] for [Principal Diagnosis] (data item (97) = 2
        (Not during care)
        OR
        corresponding [Condition Onset Flag] for [Additional Diagnosis] (data item 97A-X) = 2
        (Not during care)
)
THEN
        ACCEPT submitted values
        PRINT error message 4968: [Condition Onset Flag] for [Principal Diagnosis] or
        [Additional Diagnosis] SHOULD BE (1) for [Principal Diagnosis] or [Additional
        Diagnosis] of (O85-O909), and [Additional Diagnosis] of (Z370-Z379)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_diagnosis,additional_diagnosis_condition_onset_flag
,',',',',1,101)
val1 between 'O85' and 'O909' and
dbo.ContainsStrings('|Z37[0-9]|',additional_diagnosis) > 0 and
val2 = '2'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4969: [Additional Diagnosis] of (Z530-Z539) REQUIRES [Condition Onset Flag] for [Additional Diagnosis] of (1)

Pseudocode

```
IF
(
	[Additional Diagnosis] (data item 46_001-46_099) = Z530-Z539
	AND
	[Condition Onset Flag] for [Additional Diagnosis ] (data item 97_001-97_099) = 2 (Not
	during care)
)
THEN
	ACCEPT submitted values
	PRINT error message 4967: [Additional Diagnosis] of (Z530-Z539) REQUIRES [Condition
	Onset Flag] for [Additional Diagnosis ] of (1)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_diagnosis,additional_diagnosis_condition_onset_flag
,',',',',1,26)
val1 between    'Z530' and 'Z539' and
val2 =    '2'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4975: [Episode Of Care] of (6) NOT COMPATIBLE WITH Age at admission of (> 1 year)

Pseudocode

```
IF
        Age at admission > 1 year
AND
        [Episode Of Care] (data item 51) = 6 (Qualified newborn)
THEN
        ACCEPT submitted record
        PRINT error message 4975: [Episode Of Care] of (6) NOT COMPATIBLE WITH Age at
        admission of (> 1 year)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Age_in_Days_at_Admission > 365 and
Episode_Of_Care = '6'
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4976: [Principal Diagnosis] or [Additional Diagnosis] of (Z380-Z388) REQUIRES [Episode Of Care] of (5, or 6)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = Z380-Z388
        OR
        [Additional Diagnosis] (data item 46_001-46_099) = Z380-Z388
)
AND
(
        [Episode Of Care] (data item 51) <> 5 (Unqualified newborn)
        AND
        [Episode Of Care] (data item 51) <> 6 (Qualified newborn)
)
THEN
        ACCEPT submitted values
        PRINT error message 4976: [Principal Diagnosis] or [Additional Diagnosis] of (Z380-
        Z388) REQUIRES [Episode Of Care] of (5, or 6)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH allDiagnosisCTE AS
    (
        SELECT  DiagnosisCode   = val
        FROM dbo.ValidateDelimitedField (@additional_diagnosis, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL

        UNION

        SELECT  DiagnosisCode = pri.Diag
        FROM (VALUES(@principal_diagnosis)) pri(Diag)
        WHERE   NULLIF(pri.Diag, '') IS NOT NULL
    )
    SELECT  @IsInValid = CASE
                            WHEN    ISNULL(@episode_of_care, '') NOT IN ('5', '6')
                                    AND EXISTS
                                    (
                                        SELECT TOP (1) 1
                                        FROM allDiagnosisCTE
                                        WHERE   DiagnosisCode LIKE 'Z38%'
                                    )

                                    --AND ISDATE(@separation_date) = 1
                                    --AND CONVERT(DATE, @separation_date, 126) >= '2014-07-01'
-- Additional condition so that only newer records are flagged.

                                    AND
HealthValidator.[dbo].[IsYYYYMMDD](REPLACE(@separation_date,'-',''),'',0)=1
                                    AND REPLACE(@separation_date,'-','') >= '20140701'

                            THEN 1
                            ELSE 0
                        END ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4980: [Episode Of Care] not (5, or 6) NOT COMPATIBLE WITH Age at admission of (< 10 days)

Pseudocode

```
IF
(
	[Episode Of Care] (data item 51) <> 5 (Unqualified newborn)
	AND
	[Episode Of Care] (data item 51) <> 6 (Qualified newborn)
)
AND
	Age at admission < 10 days
THEN
	ACCEPT submitted values
	PRINT error message 4980: [Episode Of Care] not (5, or 6) NOT COMPATIBLE WITH Age at
	admission of (< 10 days)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
episode_of_care not in ('5','6') and
age_in_days_at_admission < 10
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4985: [Episode Of Care] of (5) NOT COMPATIBLE WITH [Nature Of Separation] of (5, or 6)

Pseudocode

```
IF
	[Episode Of Care] (data item 51) = 5 (Unqualified newborn)
AND
(
	[Nature Of Separation] (data item 42) = 5 (Died: No autopsy)
	OR
	[Nature Of Separation] (data item 42) = 6 (Died: Autopsy)
)
THEN
	ACCEPT submitted record
	PRINT error message 4985: [Episode Of Care] of (5) NOT COMPATIBLE WITH [Nature Of
	Separation] of (5, or 6)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Episode_Of_Care = '5' and
Nature_Of_Separation in ('5','6')
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4990: [Episode Of Care] not (1, or 6) NOT COMPATIBLE WITH Age at admission of (> 9 days, or < 29 days) for [Hospital Number] of (< 4000)

Pseudocode

```
IF
	[Hospital Number] (data item 01) < 4000
AND
(
	[Episode Of Care] (data item 51) <> 1 (Acute)
	AND
	[Episode Of Care] (data item 51) <> 6 (Qualified newborn)
)
AND
(
	Age at admission > 9
	OR
	Age at admission < 29 days
)
THEN
	ACCEPT submitted values
	PRINT error message 4990: [Episode Of Care] not (1, or 6) NOT COMPATIBLE WITH Age at
	admission of (> 9 days, or < 29 days) for [Hospital Number] of (< 4000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid INT = 0 ;
    SELECT @IsInValid = CASE
                            WHEN

                            --@hospital_code BETWEEN '0001' AND '0300'
                        @hospital_code < '4000'
                            AND
                            ISNULL(@episode_of_care,'') not in ('1','6')
                            AND @age_in_days_at_admission between 10 and 28
                            THEN 1
                            ELSE 0
                        END
    RETURN @IsInValid ;
END
```

Issue

None.

Update data quality check

Increased range of Hospital codes.

Result

None.

Action

None.

4991: [Episode Of Care] of (2, or J) REQUIRES [RUG-ADL score] in [Additional Diagnosis]

Pseudocode

```
IF
(
	[Episode Of Care] (Item 51) = 2 (Maintenance care)
	OR
	[Episode Of Care] (Item 51) = J (Mental health maintenance care)
)
AND
	[Additional Diagnosis] (data item 46_001-46_099) <> a valid [RUG-ADL score] in system
	reference table
	AND
	[Additional Diagnosis] (data item 46_001-46_099) is not blank
THEN
	ACCEPT submitted record
	PRINT error message 4998: [Episode Of Care] of (2, or J) REQUIRES [RUG-ADL score] in
	[Additional Diagnosis]
```

Status

Inactive.

Implementation

None.

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4992: [Episode Of Care] not (2, 3, 4, 8, 9, J, K, or L) NOT COMPATIBLE WITH [Admission Type] or [Status Change Type] of (3), or [Status Change Date 1], [Status Change Date 2], or [Status Change Date 3] < [Admission Date]

Pseudocode

```
IF
(
        [Episode Of Care] (data item 51) <> 2 (Maintenance care)
        AND
        [Episode Of Care] (data item 51) <> 3 (Palliative care)
        AND
        [Episode Of Care] (data item 51) <> 4 (Rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> 8 (Psychogeriatric care)
        AND
        [Episode Of Care] (data item 51) <> 9 (Geriatric evaluation and management)
        AND
        [Episode Of Care] (data item 51) <> J (Mental health: Acute)
        AND
        [Episode Of Care] (data item 51) <> K (Mental health: Rehabilitation)
        AND
        [Episode Of Care] (data item 51) <> L (Mental health: Psychogeriatric care)
)
AND
(
        [Admission Type] (data item 20) = 3 (Long stay: Non-acute care)
        OR
        [Status Change Type] (data item 23, 26, 29) = 3 (Long stay: Non-acute care)
)
OR
        [Status Change Effective Date] (data item 24, 27, 30) <  [Admission Date] (data item
        21)
THEN
        ACCEPT submitted values
        PRINT error message 4992: [Episode Of Care] not (2, 3, 4, 8, 9, J, K, or L) NOT
        COMPATIBLE WITH [Admission Type] or [Status Change Type] of (3), or [Status Change
        Date 1], [Status Change Date 2], or [Status Change Date 3] < [Admission Date]
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;
   DECLARE   @NewStatChange1Date      VARCHAR(10)
         , @NewStatChange2Date      VARCHAR(10)
         , @NewStatChange3Date      VARCHAR(10)
         , @CNVAdm_Date            DATE
         , @StatusChange1Date_OK      INT
         , @StatusChange2Date_OK      INT
         , @StatusChange3Date_OK      INT
   SELECT @CNVAdm_Date = convert(DATE,@Admission_Date)
   SELECT @StatusChange1Date_OK =
DBO.ISDDMMYYYY(@status_change_1_date_effective_from_original,'00000000',0)
   SELECT @StatusChange2Date_OK =
DBO.ISDDMMYYYY(@status_change_2_date_effective_from_original,'00000000',0)
   SELECT @StatusChange3Date_OK =
DBO.ISDDMMYYYY(@status_change_3_date_effective_from_original,'00000000',0)
   IF @StatusChange1Date_OK = 1 AND @status_change_1_date_effective_from_original <>
'00000000'
      SELECT @NewStatChange1Date =
CONVERT(DATE,RIGHT(@status_change_1_date_effective_from_original,4) +
                           SUBSTRING(@status_change_1_date_effective_from_original,3,2) +
                           LEFT(@status_change_1_date_effective_from_original,2))
      ELSE
         IF ISDATE(@status_change_1_date_effective_from_original) = 0
            SET @NewStatChange1Date = '1901-01-01'
```

```
   IF @StatusChange2Date_OK = 1 AND @status_change_2_date_effective_from_original <>
'00000000'
      SELECT @NewStatChange2Date =
CONVERT(DATE,RIGHT(@status_change_2_date_effective_from_original,4) +
                           SUBSTRING(@status_change_2_date_effective_from_original,3,2) +
                           LEFT(@status_change_2_date_effective_from_original,2))
      ELSE
         IF ISDATE(@status_change_2_date_effective_from_original) = 0
               SET @NewStatChange2Date = '1901-01-01'
   IF @StatusChange3Date_OK = 1 AND @status_change_3_date_effective_from_original <>
'00000000'
      SELECT @NewStatChange3Date =
CONVERT(DATE,RIGHT(@status_change_3_date_effective_from_original,4) +
                           SUBSTRING(@status_change_3_date_effective_from_original,3,2) +
                           LEFT(@status_change_3_date_effective_from_original,2))
      ELSE
         IF ISDATE(@status_change_3_date_effective_from_original) = 0
            SET @NewStatChange3Date = '1901-01-01'
   IF
   (
   ISNULL(@episode_of_care, '') not in ('2','3','4','8','9','J','K','L')
   AND   (@admission_type = '3'
      AND ISNULL(@status_change_1_admission_type,'') in ('','0')
      AND ISNULL(@status_change_2_admission_type,'') in ('','0')
      AND ISNULL(@status_change_3_admission_type,'') in ('','0'))
   OR
   ISNULL(@episode_of_care, '') not in ('2','3','4','8','9','J','K','L')
       AND (ISNULL(@status_change_1_admission_type,'') = '3'
         AND ISNULL(@status_change_2_admission_type,'') in ('','0')
         AND ISNULL(@status_change_3_admission_type,'') in ('','0'))
   OR
   ISNULL(@episode of care, '') not in ('2','3','4','8','9','J','K','L')
      AND (ISNULL(@status_change_2_admission_type,'') = '3'
      AND ISNULL(@status_change_3_admission_type,'') in ('','0'))
   OR
   ISNULL(@episode_of_care, '') not in ('2','3','4','8','9','J','K','L')
      AND (ISNULL(@status_change_3_admission_type,'') = '3')
   OR (@NewStatChange1Date < @CNVAdm Date AND @NewStatChange1Date <> '1901-01-01')
   OR (@NewStatChange3Date < @NewStatChange2Date AND @NewStatChange3Date <> '1901-01-01')
   OR (@NewStatChange2Date < @NewStatChange1Date AND @NewStatChange2Date <> '1901-01-01')

   )
    BEGIN
        SET @IsInValid = 1 ;
    END
```

Issue

None.

Update data quality check

Added 1 July 2023. Replaced Critical data quality check 2341.

Result

None.

Action

None.

4995: [Nature of Separation] of (0) REQUIRES [Leave From Date]

Pseudocode

```
IF
        [Nature Of Separation] (data item 42) = 0 (Discharge on leave)
AND
(
        Principal [Leave From Date] (data item 32) is blank
        AND
        Second [Leave From Date] (data item 34) is blank
        AND
        Third [Leave From Date] (data item 36) is blank
        AND
        Fourth [Leave From Date] (data item 38) is blank
)
THEN
        ACCEPT submitted record
        PRINT error message 4995: [Nature of Separation] of (0) REQUIRES [Leave From Date]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Nature_Of_Separation = '0' and
Leave_From_Date_1 is null  and
Leave_From_Date_2 is null  and
Leave_From_Date_3 is null  and
Leave_From_Date_4 is null
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

4996: [Additional Diagnosis] of (Z5181, or Z523) SHOULD BE [Principal Diagnosis]

Pseudocode

```
IF
        [Additional Diagnosis] (data item 46_001-46_099) = Z5181, or Z523
THEN
        ACCEPT submitted values
        PRINT error message 4996: [Additional Diagnosis] of (Z5181, or Z523) SHOULD BE
        [Principal Diagnosis]
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
   DECLARE @IsInValid SMALLINT = 0
   DECLARE @StringsToFind VARCHAR(2000)
   DECLARE @Pos INT
   DECLARE @PrevPos INT
   DECLARE @I INT
   DECLARE @str VARCHAR(256)
   DECLARE @count SMALLINT
   SET @count = - 1
   SET @I = 0
   SET @Pos = 0
   SET @PrevPos = 0
   SET @StringsToFind = '|' + ( SELECT c.icd_Code + '|' FROM
[HealthValidator].[dbo].InappropriateCode c WHERE c.edit_Code = '4996' FOR XML PATH(''))
   WHILE (@I < LEN(@StringsToFind))
   BEGIN
      SET @Pos = CHARINDEX('|', @StringsToFind, @I)
      IF @Pos <> @PrevPos
      BEGIN
         SET @str = SUBSTRING(@StringsToFind, @PrevPos + 1, (@Pos - @PrevPos) - 1)
         SET @PrevPos = @Pos
         IF PATINDEX('%' + @str + '%', @Expression) > 0
            SET @count += 1;
      END
      SET @I += 1
   END
   BEGIN
      IF @count > 0
         SET @IsInValid = 1
   END;
   RETURN @IsInValid;
END
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4997: [Principal Diagnosis] of (Z5181) REQUIRES [Procedure] from (Block 1892)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z5181
AND
        [Procedure] (data item 49_001-49_099) <> Block 1892
THEN
        ACCEPT submitted values
        PRINT error message 4997: [Principal Diagnosis] of (Z5181) REQUIRES [Procedure] from
        (Block 1892)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Principal_Diagnosis = 'Z5181' and (
Principal_Procedure not in ('1375500', '1375000', '1375001', '1375002', '1375003', '1375004',
'1375005', '1375006') and
dbo.ContainsStrings('|1375500|137500[0-6]|',additional_procedure) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4998: [Principal Diagnosis] of (Z523) REQUIRES [Procedure] from (1370000)

Pseudocode

```
IF
        [Principal Diagnosis] (data item 45) = Z523
AND
        [Procedure] (data item 49_001-49_099) <> 1370000
THEN
        ACCEPT submitted values
        PRINT error message 4998: [Principal Diagnosis] of (Z523) REQUIRES [Procedure] from
        (1370000)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
Principal_Diagnosis = 'Z523' and
(Principal_Procedure <> '1370000' and
dbo.ContainsStrings('|1370000|',additional_Procedure) = 0 )
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

4999: [Procedure] contains [Procedure] in system reference table where [Unacceptable Duplicate Procedure Flag] of (Y)

Pseudocode

```
IF

        [Procedure] (data item 49_001-49_099) = (Any [Procedure] code in system reference
        table with [Unacceptable Duplicate Procedure Flag] = Y)
THEN
        ACCEPT submitted values
        PRINT error message 4999: [Procedure] contains [Procedure] in system reference table
        where [Unacceptable Duplicate Procedure Flag] of (Y)
```

Status

Active.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
BEGIN
    DECLARE @IsInValid  SMALLINT = 0 ;

    WITH allProceduresCTE AS
    (
        SELECT  icd_Code = val
        FROM dbo.ValidateDelimitedField (@additional_procedure, ',', 1, 101)
        WHERE   NULLIF(val, '') IS NOT NULL
        UNION ALL
        SELECT d.icd_code FROM (VALUES(@principal_procedure)) d(icd_code) WHERE
NULLIF(d.icd_code, '') IS NOT NULL
    )
    , duplicateProceduresCTE AS
    (
        SELECT  aProc.icd_Code
        FROM allProceduresCTE aProc
        INNER JOIN dbo.vw_Codes_ICD10AM icd
            ON  icd.icd_code = aProc.icd_Code
        WHERE   NULLIF(aProc.icd_Code, '') IS NOT NULL
            AND icd.icd_unacceptable_dup_proc_flag = 'Y'
        GROUP BY aProc.icd_Code
        HAVING COUNT(*) > 1
    )
    SELECT  @IsInValid = CASE
                            WHEN COUNT(dupProcs.icd_Code) > 0
                            THEN 1
                            ELSE 0
                         END
    FROM duplicateProceduresCTE dupProcs ;

    RETURN @IsInValid ;
END ;
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

See further: *Medical Records Advisory Unit Clinical Edit Logic* document available on the Medical Records Advisory Unit - Clinical Coding page under Standards and Guidelines or contact the Health Information Governance Unit for a copy.

5999: [Principal Diagnosis] or [Additional Diagnosis] of O80 NOT COMPATIBLE WITH [Procedure] from (9047600, 9047700, Block 1337, Block, 1338, or Block 1340)

Pseudocode

```
IF
(
        [Principal Diagnosis] (data item 45) = O80
        AND
        [Procedure] (data item 49) = 9047600, 9047700, Block 1337, Block, 1338, or Block 1340
OR
(
        [Additional Diagnosis] (data item 46_001-46_099) = O80
        AND
        [Procedure] (data item 49) = 9047600, 9047700, Block 1337, Block, 1338, or Block 1340
)
THEN
        ACCEPT submitted values
        PRINT error message 5999: [Principal Diagnosis] or [Additional Diagnosis] of O80 NOT
        COMPATIBLE WITH [Procedure] from (9047600, 9047700, Block 1337, Block, 1338, or Block
        1340)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
(principal_diagnosis =    'O80' or
dbo.ContainsStrings('|O80|',additional_diagnosis) >    0 ) and
(principal_procedure in    ('9047700','9047600') or
dbo.ContainsStrings('|9047700|9047600|',additional_procedure) >    0 or
principal_procedure in vw_Codes_ICD10AM icd_proc_block '1337' icd_Code or
principal_procedure in vw_Codes_ICD10AM icd_proc_block '1338' icd_Code or
principal_procedure in vw_Codes_ICD10AM icd_proc_block '1340' icd_Code or (
dbo.ValidateDelimitedField(additional_procedure,',',1,26) = vw_Codes_ICD10AM   icd_Code and
icd_proc_block in    ('1337','1338','1340') ))
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

6000: [Principal Diagnosis] of (O601-O879, or O890-O909) or [Procedure] from (9047102-9047106, 1656400-1656401, Block 1336-Block 1340, Block 1343-Block 1344, or Block 1346-1347) REQUIRES [Additional Diagnosis] of (Z37, or Z39)

Pseudocode

```
IF
(
        (
                [Principal Diagnosis] (data item 45) = O601-O879
                OR
                [Principal Diagnosis] (data item 45) = O890-O909
                OR
                [Additional Diagnosis] (data item 46_001-46_099) = O601-O879
                OR
                [Additional Diagnosis] (data item 46_001-46_099) = O890-O909
                OR
                [Procedure] (data item 49_001-49_099) = Block 1336 - Block 1340
                OR
                [Procedure] (data item 49_001-49_099) = Block 1343 - Block 1344
                OR
                [Procedure] (data item 49_001-49_099) = Block 1346 - Block 1347
                OR
                [Procedure](data item 49) = 9047102-9047106
                OR
                [Procedure](data item 49) = 1656400-1656401
        )
)
THEN
        ACCEPT submitted values
        PRINT error message 6000: [Principal Diagnosis] of (O601-O879, or O890-O909) or
        [Procedure] from (9047102-9047106, 1656400-1656401, Block 1336-Block 1340, Block 1343-
        Block 1344, or Block 1346-1347) REQUIRES [Additional Diagnosis] of (Z37, or Z39)
```

Status

Inactive.

Implementation

[HealthValidator].[dbo].[ValidationSetExpressions]

```
dbo.Validate_2_DelimitedFields(additional_diagnosis,additional_procedure,',',',',1,26)
((
val1 = vw_Codes_ICD10AM   icd_Code and
((principal_diagnosis between    'O601' and 'O879' or
Principal_Diagnosis between    'O890' and 'O909' or
dbo.ContainsStrings('|O[6-8][0-7][1-9]%|',additional_diagnosis) >    0 or
dbo.ContainsStrings('|O[8-9][90][0-9]%|',additional_diagnosis) >    0 or
icd_proc_block in    ('1336','1337','1338','1339','1340','1343','1344','1346','1347') or
icd_code in    ('9047102','9047103','9047104','9047105','9047106','1656400','1656401') ) and
(dbo.ContainsStrings('|Z37[0-9]%|',additional_diagnosis) =    0 and
dbo.ContainsStrings('|Z39[0-2]%|',additional_diagnosis) =    0 ))) or
(
val2 =    icd_Code and
((principal_diagnosis between    'O601' and 'O879' or
Principal_Diagnosis between    'O890' and 'O909' or
dbo.ContainsStrings('|O[6-8][0-7][1-9]%|',additional_diagnosis) >    0 or
dbo.ContainsStrings('|O[8-9][90][0-9]%|',additional_diagnosis) >    0 or
icd_proc_block in    ('1336','1337','1338','1339','1340','1343','1344','1346','1347') or
icd_code in    ('9047102','9047103','9047104','9047105','9047106','1656400','1656401') ) and
(dbo.ContainsStrings('|Z37[0-9]%|',additional_diagnosis) =    0 and
dbo.ContainsStrings('|Z39[0-2]%|',additional_diagnosis) =    0 ))) or
(principal_procedure =    icd_Code and
((principal_diagnosis between    'O601' and 'O879' or
Principal_Diagnosis between    'O890' and 'O909' or
dbo.ContainsStrings('|O[6-8][0-7][1-9]%|',additional_diagnosis) >    0 or
dbo.ContainsStrings('|O[8-9][90][0-9]%|',additional_diagnosis) >    0 or
icd_proc_block in    ('1336','1337','1338','1339','1340','1343','1344','1346','1347') or
icd_code in    ('9047102','9047103','9047104','9047105','9047106','1656400','1656401') )) and
(dbo.ContainsStrings('|Z37[0-9]%|',additional_diagnosis) =    0 and
dbo.ContainsStrings('|Z39[0-2]%|',additional_diagnosis) =    0 )))
```

Issue

None.

Update data quality check

None.

Result

None.

Action

None.

ERROR REPORTS

Hospital Data Quality Check Reports

A Hospital Data Quality Check report is an Excel spreadsheet that lists the errors generating during the data validation process. The report has been designed to:

- Allow distribution in an A4 format
- Clearly show the variable that could have caused the error or query
- Allow easy identification of the most common errors so that actions can be taken to eliminate the error at point of data collection or entry

The report contains three tabs:

- Summary
- Detail
- SLA

Each tab contains a header which shows:

- **Hospital Batch**: The batch number(s) loaded
- **Hospital Name**: The name of the hospital, followed by the [Hospital Number]

Summary

In addition to the header, the summary tab has two sections:

- File summary
- Error summary

The file summary shows:

- **Data File Name**: Each file loaded
- **Batch**: The batch in which the file was loaded
- **Record Count**: The number of records supplied in the file
- **Total Valid Records**: The number records not Rejected or Critical
- **Total Rejected Records**: The number of records not loaded
- **Total Critical Errors**: The number of records with errors which must be corrected
- **Total Warning Errors**: The number of records with warnings which must be investigated

The error summary shows:

- **Data File Name**: Each file loaded
- **Data Quality Check Code**: The code which references each data quality check
- **Data Quality Check Description**: The error message returned from each data quality check
- **Total Records**: The number of records affected by this error

The error summary also colour codes the text as follows:

- **Blue**: Rejected records
- **Red**: Critical errors
- **Black**: Warning errors

The error summary report can be used to:

- Monitor data quality over time
- Identify the most common errors for your hospital
- Eliminate the most common errors at their source

An example summary report is shown below.

Hospital Edit Report

S.A.Health - Integrated South Australian Activity Collection

Hospital Batch: 166580,166649,166650,166651

Hospital Name: Flinders Medical Centre (0005)

Data File Name	Batch	Record Count	Total Valid Records	Total Rejected Records	Total Critical Errors	Total Warning Errors
0005_09UpdateAndNew_001.txt	166580	657	630	0	27	884
000509C1rev.txt	166649	3300	3296	1	3	22
000509N1rev.txt	166650	6808	6777	5	26	913
000509C2rev.txt	166651	231	222	7	2	38

Data File Name	Edit Code	Edit Description	Total Records
0005_09UpdateAndNew_001.txt	1351	[Admission Date] & [Admission Time] is between [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record in database	1
0005_09UpdateAndNew_001.txt	2720	[Referral For Further Health Care] of (07) REQUIRES [Nature of Separation] of (A)	1
0005_09UpdateAndNew_001.txt	4001	[Source Of Referral] of (A, or E), and [Admission Category] not (4) DEFAULTS [Admission Category] to (4)	1

Table 1: Hospital Data Quality Report: Summary (example records only)

Detail

In addition to the header, the detail tab has one section:

- Error detail

The error detail shows:

- **Patient Unit No**: [Patient Unit Record Number]
- **Admission Date Time**: Concatenation of [Admission Date] and [Admission Time]
- **Separation Date Time**: Concatenation of [Separation Date] and [Separation Time]
- **Item No**: Admitted Patient Care data set data item number and field name description
- **Value in Error**: Value submitted
- **Error Code**: The code which references each data quality check
- **Message**: The error message returned from each data quality check
- **File name**: Each file loaded
- **EPAS Visit ID**: EPAS Visit ID (where a record is submitted from Sunrise EMR)

The error detail also colour codes the text as follows:

- **Blue**: Rejected records
- **Red**: Critical errors
- **Black**: Warning errors

The error summary report can be used to:

- Identify the specific record in error

An example detail report is shown below.

Hospital Edit Report

S.A.Health - Integrated South Australian Activity Collection

Hospital Batch: 166580,166649,166650,166651

Hospital Name: Flinders Medical Centre (0005)

Patient Unit No	Admission Date Time	Separation Date Time	Item No	Value in Error	Assigned Value	Error Code	Message	File Name	EPAS Visit ID
0012214954	01/08/2018 16:29	10/08/2018 16:00	21 Admission date	01/08/2018(30/07/2018)		1351	[Admission Date] & [Admission Time] is between [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record in database	0005_09UpdateAndNew_001.txt	102858759
0012214954	01/08/2018 16:29	10/08/2018 16:00	67 Admission time	16:29(18:30)		1351	[Admission Date] & [Admission Time] is between [Admission Date] & [Admission Time], and [Separation Date] & [Separation Time] of another record in database	0005_09UpdateAndNew_001.txt	102858759
0012214954	01/08/2018 16:29	10/08/2018 16:00	43 Separation date	10/08/2018(01/08/2018)		1351	[Admission Date] & [Admission Time] is between [Admission Date] & [Admission Time], and [Separation Date] &	0005_09UpdateAndNew_001.txt	102858759
0012214954	01/08/2018 16:29	10/08/2018 16:00	70 Separation time	16:00(17:00)		1351	[Admission Date] & [Admission Time] is between [Admission Date] & [Admission Time], and [Separation Date] &	0005_09UpdateAndNew_001.txt	102858759
0007921970	14/09/2018 10:57	24/09/2018 09:00	42 Nature of separation	1		2720	[Referral For Further Health Care] of (07) REQUIRES [Nature of Separation] of (A)	0005_09UpdateAndNew_001.txt	103012175
0007921970	14/09/2018 10:57	24/09/2018 09:00	72 Referral for further care	07		2720	[Referral For Further Health Care] of (07) REQUIRES [Nature of Separation] of (A)	0005_09UpdateAndNew_001.txt	103012175
0012234314	04/09/2018 11:10	14/09/2018 15:54	15 Admission category	1	4	4001	[Source Of Referral] of (A, or E), and [Admission Category] not (4) DEFAULTS [Admission Category] to (4)	0005_09UpdateAndNew_001.txt	102976521
0012234314	04/09/2018 11:10	14/09/2018 15:54	16 Source of referral	A		4001	[Source Of Referral] of (A, or E), and [Admission Category] not (4) DEFAULTS [Admission Category] to (4)	0005_09UpdateAndNew_001.txt	102976521

Table 2: Hospital Data Quality Report: Detail (example records only)

SLA

In addition to the header, the SLA tab has one section:

- SLA detail

The SLA detail shows:

- **Patient Unit No**: [Patient Unit Record Number]
- **Admission Date Time**: Concatenation of [Admission Date] and [Admission Time]
- **Separation Date Time**: Concatenation of [Separation Date] and [Separation Time]
- **Item No**: Admitted Patient Care data set data item number and field name description
- **Value in Error**: Value submitted
- **Error Code**: The code which references each data quality check
- **Message**: The error message returned from each data quality check
- **File name**: Each file loaded

- **EPAS Visit ID**: EPAS Visit ID (where a record is submitted from Sunrise EMR)

The SLA detail report can be used to:

- Identify the specific record in error

An example detail report is shown below.

Hospital Edit Report

S.A.Health - Integrated South Australian Activity Collection

Hospital Batch: 166580,166649,166650,166651

Hospital Name: Flinders Medical Centre (0005)

Patient Unit No	Admission Date Time	Separation Date Time	Item No	Value in Error	Assigned Value	Error Code	Message	File Name	EPAS Visit ID
0000017443	18/07/2018 16:01	27/07/2018 15:03	6 Postcode	5050		4215	[Postcode] and [Statistical Local Area] combination not in system reference table DEFAULTS [Statistical Local Area] to first lookup value for postcode	0005_09UpdateAndNew_001.txt	102809018
0000017443	18/07/2018 16:01	27/07/2018 15:03	7 SLA	0000	4341	4215	[Postcode] and [Statistical Local Area] combination not in system reference table DEFAULTS [Statistical Local Area] to first lookup value for postcode	0005_09UpdateAndNew_001.txt	102809018
0000017443	18/07/2018 16:01	27/07/2018 15:03	5 Suburb/locality	BELLEVUE HEIGHTS		4215	[Postcode] and [Statistical Local Area] combination not in system reference table DEFAULTS [Statistical Local Area] to first lookup value for postcode	0005_09UpdateAndNew_001.txt	102809018

Table 3: Hospital Data Quality Report: SLA (example records only)

In addition to the Hospital Data Quality Check Report, an accompanying slip details the due date by which errors are required to be corrected.

Options of Correcting Errors

All errors should be made in the local Patient Administration System prior to providing corrections to the Data Governance and Integrity team.

To correct errors in records that fail the Admitted Patient Care data quality checks, hospitals can either:

- Correct the error directly in their local Patient Administration System, and then create an electronic extract file; or
- Correct the error on an Admitted Patient Care Single or Multi-Record Correction Form

If neither of the above is possible, sites may contact the Data Governance and Integrity unit to discuss an appropriate solution.

Verbal corrections are not accepted. All corrections must be documented in writing by the hospital.

Note: Where correction is required to any of the key data items, the Data Governance and Integrity team will only accept a resubmission of data. Key data items are:

- [Hospital Number]
- [Patient Unit Record Number]
- [Separation Date]
- [Separation Time]

Resubmitting records

This is the process of re-sending a complete separation record for inclusion in Admitted Patient Care domain.

The most common reason for resubmitting is to submit a record/s that was rejected in previous submissions, because rejected records do not exist in the Admitted Patient Care domain.

Other reasons are:

- Your local Patient Administration System is not set up to send correction records
- Correct the errors in records that have failed the Admitted Patient Care data quality checks rather than making the correction directly on the error report
- A record has been updated following local discovery of an error

For a record to be added to the Admitted Patient Care domain, a record with the same unique record key cannot already exist. If you wish to resubmit a record that already exists, you must first delete the existing record and then resubmit the new correct record.

To resubmit a record that does not exist in the Admitted Patient Care domain because it was originally rejected, simply ensure all data items are correct and then resubmit the new correct record.

Paper-based resubmission

To resubmit a record that already exists:

- Complete an Admitted Patient Care Single Correction Form, ensuring a "1" is noted in the Delete Indicator box
- Attach a correctly completed Admitted Patient Care Patient Summary Form
- Send forms to the Data Governance and Integrity team

For those records which do not currently exist, send a correctly completed Admitted Patient Care Patient Summary Form direct to the Data Governance and Integrity team.

To resubmit electronic records

To resubmit a record that already exists:

- Create an electronic file of deletion record/s, one for each record to be deleted and extract to file
- Extract all records to be resubmitted to the Admitted Patient Care domain
- Extract data to a file
- Complete an Admitted Patient Care control log
- Send the control log form and file direct to the Data Governance and Integrity team

Resubmitting Versus Correcting

Some hospitals elect to resubmit all records found to be in error and subsequently requiring correction. This is largely due to the fact that their Patient Administration System is not setup to submit electronic corrections and doing so manually is not possible. These sites delete records and then resubmit the entire record.

The Data Governance and Integrity team's preferred method is for correction records to be sent. This reduces processing time, and possible problems that may occur in the delete/resubmit process. SA Health may request, or agree to, a resubmission of records if there has been a systematic coding error, or a patient administration system error, and the impact on data quality is significant.

Making corrections on emailed error reports

All corrections to an Episode of Care should be reflected on the site's Patient Administration System (PAS). If it is not possible to correct the episode on the PAS then the correction should be documented or supported by existing documentation in the Patient's Medical Record.

When corrected on the PAS, the correction is included in the monthly Admitted Patient Care electronic submission, per submission standards outlined in this manual, either in a correction file or through deletion and resubmission of the episode.

Sites may also submit manual corrections identified in error reports by correcting the value on the error report or through the use of the Admitted Patient Care Single Correction Form.

When correcting values on the Error Report it is preferable the correction is made electronically by updating the spreadsheet containing the error report.

For sites unable to correct per the above, the site may correct the value on the printed error report and either scan and email the corrected error report or send via post to the Data Governance and Integrity team.

To make a correction on an emailed error report:

- Open the attachment and enter updated values at the end of the appropriate row. Save & email the report to the Data Governance and Integrity team

To make a correction on a printed error report:

- With a red pen, add the correction/s to the report. Be sure to clearly write next to the data item that needs to be updated, and provide the updated value.

- Corrections written directly onto the error report must only relate to the data item that is documented on the report. See Exceptions item listed below.

Note: Please DO NOT detail the reason for the error or any other information. Providing only the new value increases the speed that data entry staff can process the corrections.

Exceptions: The only data items which cannot be corrected, even though documented, on an error report are those which make up the unique Record Key. These are:

- [Hospital Number]
- [Patient Unit Record Number]
- [Separation Date]
- [Separation Time]

Changes to these fields must be completed by deleting the whole record and resubmitting the correct information.

Making corrections on Admitted Patient Care correction forms

Admitted Patient Care Single and Multi-record Correction Forms can be used to change any data items that have been previously submitted to Admitted Patient Care domain. They can also be used to delete a whole separation

Use a single record correction form when you:

- Need to correct more than 2 data items for a single record; or
- Have only 1 record to correct; or
- Want to delete a record
- Use a multi-record correction for when you:
- Have many records to correct; and
- Have only 1 or 2 data items to correct per record

On a single record correction form at the top of the form, enter:

- [Hospital Number]
- Hospital name
- [Patient Unit Record Number]
- [Separation Date]
- [Separation Time]

Note: These should be the exact values as they appear on the Hospital Data Quality Check Report.

Then in the Delete Indicator field enter either a:

- **0**: to make a correction to the record; or
- **1**: to delete this whole record

Note: If you are deleting a complete record no further information is required

Next, enter the data item to correct and its new value.

On a Multi-Record Correction Form at the top of the form, enter:

- [Hospital Number]
- Hospital name

Then for each record requiring correction, enter:

- [Patient Unit Record Number]
- [Separation Date]
- [Separation Time]

Note: These should be the exact values as they appear on the Hospital Data Quality Check Report.

Finally, enter the data item to correct and its new value.

When entering a data item number the first character should be placed in the left most position of the field.

Note: If an Additional Diagnosis, procedure code or procedure indicator code is being corrected you must indicate which code to correct. For example: 46_003 or 85_010.

The new value for the data item should then be neatly entered.

Note: Write the word blank should you require a value to be removed or deleted.

Returning corrections

Hospitals must return the corrections made on error reports and/or Correction Forms to the Data Governance and Integrity team by the due date.

From the Hospital Data Quality Check Report, return the corrected error details tab and/or any Admitted Patient Care Correction Forms, and any new Admitted Patient Care Patient Summary Forms for resubmission.

Note: Keep a copy of the documentation resubmitted for your own records. This may be required to answer any future queries.

Error reports that have been annotated with corrections can be returned to Data Governance and Integrity by either courier or post to:

"Confidential"
Data Governance and Integrity
Data, Analytics, and Insights
SA Health
PO Box 287, Rundle Mall,
Adelaide SA 5000

DOCUMENT CONTROL INFORMATION

Title:	Admitted Patient Care: Data Quality Checks: Reference Manual 2024-2025
Description:	This document describes the data quality checks used in the Admitted Patient Care domain.
Version	6.2
Version Date	30 September 2024
Document Owner:	Manager, Data Governance and Integrity
Contributors:	Chloe Earls: Data Quality Assurance Officer Mark Hall: Manager Information Assembly Anthony Fantasia, Manager Data Governance and Quality Assurance
Document Location:	Objective - DATA GOVERNANCE_ Admitted Patient Care - Data Quality Checks - Reference Manual 2023-2024
Objective Id:	A4084931
Document Classification	For Official Use Only-I1-A1

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Interpreter

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