



Elective Surgery Waiting List

Data Quality Checks

Reference Manual
2019-2020

For Official Use Only-I1-A1

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Document Control Information

Title: Elective Surgery Waiting List - File Extract - Technical Specification
2019-2020

Description: This document describes the file submission format used in the Elective Surgery Waiting List data collection.

Version 1.0

Version Date 19-Sep-2019

Document Owner: Susan Sander: Senior Manager, Corporate Data Collection Systems

Contributors: Damien Bourke: Data Steward Team Leader
Georgia Lefty: Senior Project Officer

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Change History

A printed version of this document may have been superseded. The current version of this document can be accessed via the project site document library in Project Server.

Document Version	Date	Updated By	Change Summary
0.1	01-Apr-2019	Georgia Lefty: Senior Project Officer	Initial version
0.2	01-May-2019	Damien Bourke: Data Steward Team Leader	Internal review
0.3	08-Jul-2019	Susan Sander: Senior Manager, Corporate Data Collection Systems	Internal review
1.0	01-Sep-2019	Damien Bourke: Metadata and Change Manager	Internal review

Approvals

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

Document Endorsement

This document requires the following endorsement:

Version	Date	Name	Endorsed Yes/No?	Signature
1.0	19-Sep-2019	Susan Sander: Senior Manager, Corporate Data Collection Systems	Yes	SQS

Executive Summary

Changes

Standardised format for pseudocode e.g.

```
IF [Data element] (data item number) = something invalid
THEN
    ACCEPT submitted record
    PRINT error message xxxx: description
```

Additional Information

Clinical unit codes are described in the spreadsheet **Elective Surgery Waiting List - Reference File - Clinical Units**.

Hospital codes are described in the spreadsheet **Elective Surgery Waiting List - Reference File - Hospital Codes**.

Intended procedure codes are described in the spreadsheet **Elective Surgery Waiting List - Reference File - Intended Procedure**.

Additional resources are available from:

<https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/about+us/our+performance/elective+surgery+waiting+list/elective+surgery+waiting+list+eswl+resources>

Data Quality Checks

Improving Errors

If you suspect that a data quality check is incorrect, or raising a large number of queries unnecessarily, please contact the BLIS Unit through the QSM service management to raise your concerns

Data Quality Checks

A data quality check is produced for each hospital once the sites data has been loaded into the BLIS database. The report is emailed to each hospital who then forward the corrections back to the Department and corrections are made in the database.

Data quality checks are explained in the section that follows.

11: Invalid Sex Code

Pseudocode

```
IF
(
    [Sex] (data item 25) ≠ M
    AND
    [Sex] (data item 25) ≠ F
)
THEN
    PRINT error message 11: Invalid Sex Code
```

Status

Active.

Implementation

```
IF .not. xsex$'MF'
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Sex Code - " + temptr->xsex
    REPLACE errnumber WITH "11"
    SELECT 2
ELSE
    IF xsex$'M'
        STORE ctm + 1 TO ctm
    ELSE
        STORE ctf + 1 TO ctf
    ENDIF
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

12: INVALID POST CODE

Pseudocode

```
IF NOT
(
    [Postcode] (data item 20) ≥ 0800 and ≤ 0899
    OR
    [Postcode] (data item 20) ≥ 2000 and ≤ 7999
    OR
    [Postcode] (data item 20) = 9999
)
THEN
    PRINT error message 12: INVALID POST CODE
```

Status

Active.

Implementation

```
IF (val(xpcode) >= 0800 .and. val(xpcode)<=0899) .or. (val(xpcode) >= 2000 .and.
val(xpcode)<=7999) .or. xpcode='9999'
    * nothing
ELSE
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "          INVALID POST CODE - " + TEMPTR->XPCODE
    REPLACE errnumber WITH "12"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

13: Invalid Birth Date

Pseudocode

```
IF
(
    [Date Of Birth] (data item 12) is invalid
)
THEN
    PRINT error message 13: Invalid Birth Date
```

Status

Active.

Implementation

```
IF xdob <> ctod(dtoc(xdob))
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Birth Date - " + dtoc(temptr->xdob)
    REPLACE errnumber WITH "13"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

14: Invalid Election Code

Pseudocode

```
IF
(
    [Election] (data item 15) <> H or P
)
THEN
    PRINT error message 14: Invalid Election Code
```

Status

Active.

Implementation

```
IF .not. xselect$'HP'
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Election Code - " + temptr->xselect
    REPLACE errnumber WITH "14"
    SELECT 2
ELSE
    IF xselect$'H'
        STORE cth + 1 TO cth
    ELSE
        STORE ctp + 1 TO ctp
    ENDIF
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

15: Invalid Procedure Code

Pseudocode

```
IF
(
    [Intended Procedure] (data item 17) is invalid
)
THEN
    PRINT error message 15: Invalid Procedure Code
```

Status

Active.

Implementation

```
* check for invalid procedure code
STORE "J" + xcode TO gkey
SELECT 5
FIND &gkey
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "        Invalid Procedure Code - " + temptr->xcode
    REPLACE errnumber WITH "15"
ELSE
    * note genend part of or section probably not needed
    IF (temptr->xdaton>genend .OR. (temptr->xstatus$'12' .AND. DATE()>=CTOD("01/08/2016")))
    .AND. dtoc(genend) <> " / / "
        * old code used
        STORE .T. TO errupd
        SELECT 4
        APPEND BLANK
        REPLACE errtext WITH urnum + "        Excluded Legacy Indicator Procedure Code - " +
temptr->xcode
        REPLACE errnumber WITH "47"
    ELSE
        SELECT 5
        IF temptr->xenddat>genend .AND. dtoc(genend) <> " / / " .AND. dtoc(temptr->xenddat)
<> " / / "
            * old code used too late
            STORE .T. TO errupd
            SELECT 4
            APPEND BLANK
            REPLACE errtext WITH urnum + "        Excluded Legacy Indicator Procedure Code - " +
temptr->xcode
            REPLACE errnumber WITH "47"
        ENDIF
    ENDIF
    SELECT 5
    IF temptr->xenddat<genstart .AND. dtoc(temptr->xenddat) <> " / / "
        * new code used too early
```

```
STORE .T. TO errupd
SELECT 4
APPEND BLANK
REPLACE errtext WITH urnum +"      Excluded Intended Procedure Code For Past Record - "
+ temptr->xcode
REPLACE errnumber WITH "48"
ENDIF
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

16: Invalid Status Code

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) is invalid
)
THEN
    PRINT error message 16: Invalid Status Code
```

Status

Active.

Implementation

```
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Status Code - " + temptr->xstatus
    REPLACE errnumber WITH "16"
ELSE
    DO CASE
        CASE temptr->xstatus = "1"
            STORE cts1 + 1 TO cts1
        CASE temptr->xstatus = "2"
            STORE cts2 + 1 TO cts2
        CASE temptr->xstatus = "3"
            STORE cts3 + 1 TO cts3
        CASE temptr->xstatus = "4"
            STORE cts4 + 1 TO cts4
        CASE temptr->xstatus = "5"
            STORE cts5 + 1 TO cts5
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

17: Invalid Unit Code

17: Warning Unexpected Unit Code

Pseudocode

```
IF
(
    [Clinical Unit] (data item 9) is invalid
)
THEN
    PRINT error message 17: Invalid Unit Code

IF
(
    [Clinical Unit] (data item 9) is unexpected
)
THEN
    PRINT error message 17: Warning Unexpected Unit Code
```

Status

Active.

Implementation

```
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Unit Code - " + temptr->xunit
    REPLACE errnumber WITH "17"
ELSE
    IF genattr="N"
        * warning update only - not error
        SELECT 4
        APPEND BLANK
        REPLACE errtext WITH urnum + "      Warning Unexpected Unit Code - " + temptr->xunit
        REPLACE errnumber WITH "17"
    ENDIF
ENDIF
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

18: Invalid Date Added

Pseudocode

```
IF  
(  
    [Date Added To List] (data item 11) is invalid  
)  
THEN  
    PRINT error message 18: Invalid Date Added
```

Status

Active.

Implementation

```
IF xdaton <> ctod(dtoc(xdaton))  
    STORE .T. TO errupd  
    SELECT 4  
    APPEND BLANK  
    REPLACE errtext WITH urnum + "      Invalid Date Added - " + dtoc(temptr->xdaton)  
    REPLACE errnumber WITH "18"  
    SELECT 2  
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

19: Date Added Prior To Birth Date

Pseudocode

```
IF
(
    [Date Added To List] (data item 11) is < [Date Of Birth] (data item 12)
)
THEN
    PRINT error message 19: Date Added Prior to Birth Date
```

Status

Active.

Implementation

```
IF xdaton < xdob
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "    Date Added prior TO Birth Date - " + dtoc(temptr->xdaton) + " < " + dtoc(temptr->xdob)
    REPLACE errnumber WITH "19"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

20: Invalid Admit/Remove Date

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) = 3, 4, or 5
    AND
    [Admission/Removal Date] (data item 2) is invalid
)
OR
(
    [Treatment Status] (data item 27) <> 3, 4, or 5
    AND
    [Admission/Removal Date] (data item 2) is not invalid
)
THEN
    PRINT error message 20: Invalid Admit/Remove Date
```

Status

Active.

Implementation

```
IF xstatus$'345'.and.(dtoc(temptr->xenddat)=" / / ".or. temptr->xenddat <>
ctod(dtoc(temptr->xenddat)))
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Admit/Remove Date - " + dtoc(temptr->xenddat)
    REPLACE errnumber WITH "20"
    SELECT 2
ENDIF
IF .not. xstatus$'345' .and. dtoc(xenddat) <> " / / "
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Admit/Remove Date - " + dtoc(temptr->xenddat)
    REPLACE errnumber WITH "20"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

21: Admit/Remove Date prior TO Date Added

Pseudocode

```
IF
(
    [Admission/Removal Date] (data item 2) is < [Date Added To List] (data item 11)
)
THEN
    PRINT error message 21: Admit/Remove Date prior TO Date Added
```

Status

Active.

Implementation

```
IF xenddat < xdaton .and. dtoc(xenddat) <> " / / "
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + " Admit/Remove Date prior TO Date Added - " +
dtoc(temptr->xenddat) + " < " + dtoc(temptr->xdaton)
    REPLACE errnumber WITH "21"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

22: Invalid Priority Code

Pseudocode

```
IF
(
    [Admission Category] (data item 1) is invalid
)
THEN
    PRINT error message 22: Invalid Priority Code
```

Status

Active.

Implementation

```
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "        Invalid Priority Code - " + temptr->xurgst
    REPLACE errnumber WITH "22"
ELSE
    DO CASE
        CASE temptr->xurgst = "1"
            STORE ctp1 + 1 TO ctp1
        CASE temptr->xurgst = "2"
            STORE ctp2 + 1 TO ctp2
        CASE temptr->xurgst = "3"
            STORE ctp3 + 1 TO ctp3
        CASE temptr->xurgst = "9"
            STORE ctp4 + 1 TO ctp4
        CASE temptr->xurgst = "4"
            STORE ctp5 + 1 TO ctp5
        CASE temptr->xurgst = "5"
            STORE ctp6 + 1 TO ctp6
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

23: Treatment Records: Xmitted

Pseudocode

```
Count the number of Treatment Records transmitted
THEN
    PRINT error message 23: Treatment Records: Xmitted
```

Status

Active.

Implementation

```
IF rect <> counter1
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH "          Treatment Records: Xmitted = "+str(rect,5,0)+" Copied &
Validated = "+str(counter1,5,0)
    REPLACE errnumber WITH "23"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

24: Invalid Change Date

Pseudocode

```
IF
(
    [Effective Date] (data item 14) is invalid
)
THEN
    PRINT error message 24: Invalid Change Date
```

Status

Active.

Implementation

```
IF ycanddat <> ctod(dtoc(ycanddat))
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Change Date - " + dtoc(tempca->ycanddat)
    REPLACE errnumber WITH "24"
    SELECT 3
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

25: Invalid Change Code

Pseudocode

```
IF
(
    [Cancellation Type] (data item 7) is invalid
)
THEN
    PRINT error message 25: Invalid Change Code
```

Status

Active.

Implementation

```
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Change Code - " + tempca->ycantyp
    REPLACE errnumber WITH "25"
ELSE
    DO CASE
        CASE tempca->ycantyp = "01"
            STORE ctc1 + 1 TO ctc1
        CASE tempca->ycantyp = "02"
            STORE ctc2 + 1 TO ctc2
        CASE tempca->ycantyp = "03"
            STORE ctc3 + 1 TO ctc3
        CASE tempca->ycantyp = "04"
            STORE ctc4 + 1 TO ctc4
        CASE tempca->ycantyp = "05"
            STORE ctc5 + 1 TO ctc5
        CASE tempca->ycantyp = "06"
            STORE ctc6 + 1 TO ctc6
        CASE tempca->ycantyp = "07"
            STORE ctc7 + 1 TO ctc7
        CASE tempca->ycantyp = "98"
            STORE ctc98 + 1 TO ctc98
        CASE tempca->ycantyp = "99"
            STORE ctc99 + 1 TO ctc99
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

26: Cancellation Records: Xmitted

Pseudocode

```
Count the number of Cancellation Records transmitted
THEN
    PRINT error message 26: Treatment Records: Xmitted
```

Status

Active.

Implementation

```
IF recc <> counter2
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH "          Cancellation Records: Xmitted = "+str(recc,5,0)+" Copied
& Validated = "+str(counter2,5,0)
    REPLACE errnumber WITH "26"
    SELECT 3
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

27: Invalid Category Assessment Date

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) = 1
    AND
    [Admission Category] (data item 1) = 4 or 5
    AND
    [Category Assessment Date] (data item 8) is invalid
)
THEN
    PRINT error message 27: Invalid Category Assessment Date
```

Status

Active.

Implementation

```
IF xstatus='1' .and. xurgst$'45' .and. dtoc(xassdat)=' / / '
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Category Assessment Date - " + dtoc(temptr-
>xassdat)
    REPLACE errnumber WITH "27"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

28: Invalid Effective Date

Pseudocode

```
IF
(
    [Category Change Date] (data item 14) is invalid
)
THEN
    PRINT error message 28: Invalid Effective Date
```

Status

Active.

Implementation

```
IF wcatdate <> ctod(dtoc(wcatdate))
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Effective Date - " + dtoc(temphis->wcatdate)
    REPLACE errnumber WITH "28"
    SELECT 6
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

29: Invalid Old Category

Pseudocode

```
IF
(
  [Admission Category] (data item 1) = 5
  AND
  [Category Change Date] (data item 14) ≥ 01/07/2010
)
THEN
  PRINT error message 29: Invalid Old Category
```

Status

Active.

Implementation

```
IF wcatold='5' .AND. wcatdate>=CTOD("01/07/2010")
  STORE .T. TO errupd
  SELECT 4
  APPEND BLANK
  REPLACE errtext WITH urnum + "      Invalid Old Category - " + tempthis->wcatold
  REPLACE errnumber WITH "29"
  SELECT 6
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

29: Invalid Old Category

Pseudocode

```
IF
(
    [Admission Category] (data item 1) is invalid
)
THEN
    PRINT error message 29: Invalid Old Category
```

Status

Active.

Implementation

```
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "        Invalid Old Category - " + temphis->wcatold
    REPLACE errnumber WITH "29"
    SELECT 6
ELSE
    DO CASE
        CASE temphis->wcatold = "1"
            STORE cto1 + 1 TO cto1
        CASE temphis->wcatold = "2"
            STORE cto2 + 1 TO cto2
        CASE temphis->wcatold = "3"
            STORE cto3 + 1 TO cto3
        CASE temphis->wcatold = "4"
            STORE cto4 + 1 TO cto4
        CASE temphis->wcatold = "5"
            STORE cto5 + 1 TO cto5
        CASE temphis->wcatold = "9"
            STORE cto6 + 1 TO cto6
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

30: Invalid New Category

Pseudocode

```
IF
(
    [Admission Category] (data item 1) = 5
    AND
    [Category Change Date] (data item 14) ≥ 01/07/2010
)
THEN
    PRINT error message 30: Invalid New Category
```

Status

Active.

Implementation

```
IF wcatnew='5' .AND. wcatdate>=CTOD("01/07/2010")
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid New Category - " + temphis->wcatnew
    REPLACE errnumber WITH "30"
    SELECT 6
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

30: Invalid New Category

Pseudocode

```
IF
(
    [Admission Category] (data item 1) is invalid
)
THEN
    PRINT error message 30: Invalid New Category
```

Status

Active.

Implementation

```
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "        Invalid New Category - " + temphis->wcatnew
    REPLACE errnumber WITH "30"
    SELECT 6
ELSE
    DO CASE
        CASE temphis->wcatnew = "1"
            STORE ctn1 + 1 TO ctn1
        CASE temphis->wcatnew = "2"
            STORE ctn2 + 1 TO ctn2
        CASE temphis->wcatnew = "3"
            STORE ctn3 + 1 TO ctn3
        CASE temphis->wcatnew = "4"
            STORE ctn4 + 1 TO ctn4
        CASE temphis->wcatnew = "5"
            STORE ctn5 + 1 TO ctn5
        CASE temphis->wcatnew = "9"
            STORE ctn6 + 1 TO ctn6
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

32: Invalid Same Day Code

Pseudocode

```
IF
(
    [Same Day Flag] (data item 23) is <> Y, N, or U
)
THEN
    PRINT error message 32: Invalid Same Day Code
```

Status

Active.

Implementation

```
IF .not. xtday$'YNU'
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Same Day Code - " + temptr->xtday
    REPLACE errnumber WITH "32"
    SELECT 2
ELSE
    DO CASE
        CASE xtday='Y'
            STORE ctd1 + 1 TO ctd1
        CASE xtday='N'
            STORE ctd2 + 1 TO ctd2
        CASE xtday='U'
            STORE ctd3 + 1 TO ctd3
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

32: Invalid Same Day Code

Pseudocode

```
IF
(
    [Same Day Flag] (data item 23) is <> Y, N, or U
)
THEN
    PRINT error message 32: Invalid Same Day Code
```

Status

Active.

Implementation

```
IF .not. xtday$'YNU'
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Same Day Code - " + temptr->xtday
    REPLACE errnumber WITH "32"
    SELECT 2
ELSE
    DO CASE
        CASE xtday='Y'
            STORE ctd1 + 1 TO ctd1
        CASE xtday='N'
            STORE ctd2 + 1 TO ctd2
        CASE xtday='U'
            STORE ctd3 + 1 TO ctd3
    ENDCASE
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

33: Status is Not Removed;Invalid Reason

33: Status is Removed;Invalid Reason

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) = 5
AND
    [Reason For Removal] (data item 21) is invalid
)
THEN
    PRINT error message 33: Status is Removed;Invalid Reason

IF
(
    [Reason For Removal] (data item 21)is invalid
)
THEN
    PRINT error message 33: Status is Not Removed;Invalid Reason
```

Status

Active.

Implementation

```
IF temptr->xstatus = '5'
    STORE "G" + xreasof TO gkey
    SELECT 5
    FIND &gkey
    IF eof()
        STORE .T. TO errupd
        SELECT 4
        APPEND BLANK
        REPLACE errtext WITH urnum + "          Status is Removed;Invalid Reason - " + temptr-
>xreasof
        REPLACE errnumber WITH "33"
    ELSE
        DO CASE
            CASE temptr->xreasof = "01"
                STORE ctr1 + 1 TO ctr1
            CASE temptr->xreasof = "02"
                STORE ctr2 + 1 TO ctr2
            CASE temptr->xreasof = "03"
                STORE ctr3 + 1 TO ctr3
            CASE temptr->xreasof = "04"
                STORE ctr4 + 1 TO ctr4
            CASE temptr->xreasof = "05"
                STORE ctr5 + 1 TO ctr5
            CASE temptr->xreasof = "06"
                STORE ctr6 + 1 TO ctr6
            CASE temptr->xreasof = "07"
                STORE ctr7 + 1 TO ctr7
            CASE temptr->xreasof = "98"
                STORE ctr98 + 1 TO ctr98
            CASE temptr->xreasof = "99"
```

```

        STORE ctr99 + 1 TO ctr99
    ENDCASE
ENDIF
ELSE
    IF VAL(temptr->Xreasof) <> 0
        STORE .T. TO errupd
        SELECT 4
        APPEND BLANK
        REPLACE errtext WITH urnum + "      Status is Not Removed;Invalid Reason - " + temptr-
>xreasof
        REPLACE errnumber WITH "33"
    ELSE
        STORE ctr00 + 1 TO ctr00
    ENDIF
ENDIF
ENDIF

```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

34: Invalid Patient Unit Number

Pseudocode

```
IF  
(  
    [Patient Unit Record Number] (data item 19) is invalid  
)  
THEN  
    PRINT error message 34: Invalid Patient Unit Number
```

Status

Active.

Implementation

```
IF m->varunitno = '000000000'  
    STORE .T. TO errupd  
    SELECT 4  
    APPEND BLANK  
    REPLACE errtext WITH urnum + "      Invalid Patient Unit Number - " + temptr->xpatunitno  
    REPLACE errnumber WITH "34"  
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

35: Change Date earlier than date Added

Pseudocode

```
IF  
( [Category Change Date] (data item 14) < [Date Added To List] (data item 11)  
)  
THEN  
    PRINT error message 35: Change Date earlier than date Added
```

Status

Active.

Implementation

```
IF tempthis->>wcatdate < temptr->xdaton  
    SELECT 4  
    APPEND BLANK  
    REPLACE errtext WITH mnum + "      Change Date earlier than date Added - " + dtoc(tempthis-  
>wcatdate) + " < " + dtoc(temptr->xdaton)  
    REPLACE errnumber WITH "35"  
    SELECT 6  
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

35: Change Date later than date Removed

Pseudocode

```
IF  
( [Category Change Date] (data item 14) > [Admission/Removal Date] (data item 2)  
)  
THEN  
    PRINT error message 35: Change Date later than date Removed
```

Status

Active.

Implementation

```
IF tempthis->wcatdate > temptr->xenddat .AND. .NOT. dtoc(temptr->xenddat)=' / / '  
SELECT 4  
APPEND BLANK  
REPLACE errtext WITH mnum + "      Change Date later than date Removed - " + dtoc(tempthis-  
>wcatdate) + " > " + dtoc(temptr->xenddat)  
REPLACE errnumber WITH "35"  
SELECT 6  
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

36: Invalid Indigenous Status

Pseudocode

```
IF
(
    [Indigenous Status] (data item 18) is invalid
)
THEN
    PRINT error message 36: Invalid Indigenous Status
```

Status

Active.

Implementation

```
IF .NOT. EMPTY(temptr->xIndigStat)
    * check value
    SELECT genpar
    SEEK "K"+temptr->xIndigStat
    IF EOF()
        SELECT 4
        APPEND BLANK
        REPLACE errtext WITH urnum + "    Invalid Indigenous Status - " + temptr->xIndigStat
        REPLACE errnumber WITH "36"
    ENDIF
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

37: Invalid Blank Deferral Reason

37: Invalid Deferral Reason

Pseudocode

```
IF
(
    [Admission Category] (data item 1) = 4
    AND
    [Deferral Reason] (data item 13) is invalid
)
THEN
    PRINT error message 37: Invalid Blank Deferral Reason

IF
(
    [Admission Category] (data item 1) = 4
    AND
    [Deferral Reason] (data item 13) is invalid
)
THEN
    PRINT error message 37: Invalid Deferral Reason
```

Status

Active.

Implementation

```
IF temphis->wcatnew='4'
    STORE "L" + temphis->wdefreason TO gkey
    SELECT 5
    FIND &gkey
    IF eof() .OR. EMPTY(temphis->wdefreason)
        STORE .T. TO errupd
        SELECT 4
        APPEND BLANK
        IF EMPTY(temphis->wdefreason)
            REPLACE errtext WITH urnum + "    Invalid Blank Deferral Reason "
        ELSE
            REPLACE errtext WITH urnum + "    Invalid Deferral Reason - " + temphis->wdefreason
        ENDIF
        REPLACE errnumber WITH "37"
    ENDIF
    SELECT 6
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

38: Empty Scheduled Admission Date For Status

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) = 2, 3 or 4
    AND
    [Scheduled Admission Date] (data item 24) is invalid
)
THEN
    PRINT error message 38: Empty Scheduled Admission Date for Status
```

Status

Active.

Implementation

```
IF temptr->xstatus$"234" .AND. EMPTY(temptr->xSAdmDate)
    * adm date cannot be empty
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum +"      Empty Scheduled Admission Date For Status="+temptr-
    >xstatus
    REPLACE errnumber WITH "38"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

39: Scheduled Admission Date Before Date on List

Pseudocode

```
IF
(
    [Scheduled Admission Date] (data item 24) < [Date Added To List] (data item 11)
    AND
    [Scheduled Admission Date] (data item 24) is not blank
)
THEN
    PRINT error message 39: Scheduled Admission Date Before Date on List
```

Status

Active.

Implementation

```
IF temptr->xSAdmDate < xdaton .AND. !EMPTY(temptr->xSAdmDate)
    * adm date cannot be less than date on
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "    Scheduled Admission Date Before Date on List " +
DTC(temptr->xSAdmDate)
    REPLACE errnumber WITH "39"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

40: Empty Booking Date For Status

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) = 2, 3 or 4
    AND
    [Booking Date] (data item 5) is blank
)
THEN
    PRINT error message 40: Empty Booking Date For Status
```

Status

Active.

Implementation

```
IF temptr->xstatus$"234" .AND. EMPTY(temptr->xBookDate)
    * booking date cannot be empty
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum +"      Empty Booking Date For Status="+temptr->xstatus
    REPLACE errnumber WITH "40"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

41: Booking Date Before Date on List

Pseudocode

```
IF
(
    [Booking Date] (data item 5) < [Date Added To List] (data item 11)
    AND
    [Booking Date] (data item 5) is not blank
)
THEN
    PRINT error message 41: Booking Date Before Date on List
```

Status

Active.

Implementation

```
IF temptr->xBookDate < xdaton .AND. !EMPTY(temptr->xBookDate)
    * adm date cannot be less than date on
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "    Booking Date Before Date on List " + DTOC(temptr-
    >xBookDate)
    REPLACE errnumber WITH "41"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

42: Main CMBS Code Invalid

Pseudocode

```
IF
(
    [CMBS] (data item 10) is invalid
)
THEN
    PRINT error message 42: Main CMBS Code Invalid
```

Status

Active.

Implementation

* Check 1st CMBS Code

```
IF recm > 0
    SELECT tempcmts
    SEEK temptr->xurnum
    IF FOUND()
        SELECT 0
        SELECT cmbscode
        SEEK tempcmts->vcmbcode
        IF .NOT. FOUND()
            STORE .T. TO errupd
            SELECT 4
            APPEND BLANK
            REPLACE errtext WITH urnum + "    Main CMBS Code Invalid " + tempcmts-
>vcmbcode
            REPLACE errnumber WITH "42"
            counter8 = counter8 +1
            SELECT 2
        ELSE
            * check code not excluded
            IF cmbscode->excluded = "Y"
                STORE .T. TO errupd
                SELECT 4
                APPEND BLANK
                REPLACE errtext WITH urnum + "    Main CMBS Code Excluded " + tempcmts-
>vcmbcode
                REPLACE errnumber WITH "43"
                counter8 = counter8 +1
                SELECT 2
            ENDIF
        ENDIF
    * add cmbs record order
    replace tempcmts->vorder WITH 1
    SELECT tempcmts
    skip
    lnorder = 2
    DO WHILE !EOF() .AND. tempcmts->vurnum=temptr->xurnum
        replace tempcmts->vorder WITH lnorder
```

```

        skip
        lnorder=lnorder+1
    enddo
    counter7 = counter7 +1
ELSE
    * CBMS code is maditory but initially this check will be disabled as some hospitals
will lodge incomplete records
    *STORE .T. TO errupd
    *SELECT 4
    *APPEND BLANK
    *REPLACE errtext WITH urnum +"      No CMBS Code Provided "
    *REPLACE errnumber WITH "44"
    SELECT 2
ENDIF
* delete old codes
SELECT cmbs
SEEK hosp+temptr->xurnum
IF !EOF()
    DO WHILE cmbs->vpnumber=hosp+temptr->xurnum .AND. !EOF()
        DELETE
        SKIP
        counter8 = counter8 +1
    ENDDO
ENDIF
SELECT 2
ENDIF
*
SELECT 2
skip
IF errupd
    STORE cterrt + 1 TO cterrt
ENDIF

```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

43: Main CMBS Code Excluded

Pseudocode

```
IF
(
    [CMBS] (data item 10) is excluded
)
THEN
    PRINT error message 43: Main CMBS Code Excluded
```

Status

Active.

Implementation

```
* Check 1st CMBS Code
IF recm > 0
    SELECT tempcmts
    SEEK temptr->xurnum
    IF FOUND()
        SELECT 0
        SELECT cmbscode
        SEEK tempcmts->vcmbcode
        IF .NOT. FOUND()
            STORE .T. TO errupd
            SELECT 4
            APPEND BLANK
            REPLACE errtext WITH urnum + "    Main CMBS Code Invalid " + tempcmts-
            >vcmbcode
            REPLACE errnumber WITH "42"
            counter8 = counter8 +1
            SELECT 2
        ELSE
            * check code not excluded
            IF cmbscode->excluded = "Y"
                STORE .T. TO errupd
                SELECT 4
                APPEND BLANK
                REPLACE errtext WITH urnum + "    Main CMBS Code Excluded " + tempcmts-
                >vcmbcode
                REPLACE errnumber WITH "43"
                counter8 = counter8 +1
                SELECT 2
            ENDIF
        ENDIF
    * add cmbs record order
    replace tempcmts->vorder WITH 1
    SELECT tempcmts
    skip
    lnorder = 2
    DO WHILE !EOF() .AND. tempcmts->vurnum=temptr->xurnum
        replace tempcmts->vorder WITH lnorder
```



```

        skip
        lnorder=lnorder+1
    enddo
    counter7 = counter7 +1
ELSE
    * CBMS code is maditory but initially this check will be disabled as some hospitals
will lodge incomplete records
    *STORE .T. TO errupd
    *SELECT 4
    *APPEND BLANK
    *REPLACE errtext WITH urnum +"      No CMBS Code Provided "
    *REPLACE errnumber WITH "44"
    SELECT 2
ENDIF
* delete old codes
SELECT cmbs
SEEK hosp+temptr->xurnum
IF !EOF()
    DO WHILE cmbs->vpnumber=hosp+temptr->xurnum .AND. !EOF()
        DELETE
        SKIP
        counter8 = counter8 +1
    ENDDO
ENDIF
SELECT 2
ENDIF
*
SELECT 2
skip
IF errupd
    STORE cterrt + 1 TO cterrt
ENDIF

```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

44: No CMBS Code Provided

Pseudocode

```
IF
(
    [CMBS] (data item 10) is null
)
THEN
    PRINT error message 44: No CMBS Code Provided
```

Status

Inactive.

Implementation

```
* Check 1st CMBS Code
IF recm > 0
    SELECT tempcmts
    SEEK temptr->xurnum
    IF FOUND()
        SELECT 0
        SELECT cmbscode
        SEEK tempcmts->vcmbcode
        IF .NOT. FOUND()
            STORE .T. TO errupd
            SELECT 4
            APPEND BLANK
            REPLACE errtext WITH urnum + "      Main CMBS Code Invalid " + tempcmts-
>vcmbcode
            REPLACE errnumber WITH "42"
            counter8 = counter8 +1
            SELECT 2
        ELSE
            * check code not excluded
            IF cmbscode->excluded = "Y"
                STORE .T. TO errupd
                SELECT 4
                APPEND BLANK
                REPLACE errtext WITH urnum + "      Main CMBS Code Excluded " + tempcmts-
>vcmbcode
                REPLACE errnumber WITH "43"
                counter8 = counter8 +1
                SELECT 2
            ENDIF
        ENDIF
    * add cmbs record order
    replace tempcmts->vorder WITH 1
    SELECT tempcmts
    skip
    lnorder = 2
    DO WHILE !EOF() .AND. tempcmts->vurnum=temptr->xurnum
        replace tempcmts->vorder WITH lnorder
```

```

        skip
        lnorder=lnorder+1
    enddo
    counter7 = counter7 +1
ELSE
    * CBMS code is maditory but initially this check will be disabled as some hospitals
will lodge incomplete records
    *STORE .T. TO errupd
    *SELECT 4
    *APPEND BLANK
    *REPLACE errtext WITH urnum +"      No CMBS Code Provided "
    *REPLACE errnumber WITH "44"

    SELECT 2
ENDIF
* delete old codes
SELECT cmbs
SEEK hosp+temptr->xurnum
IF !EOF()
    DO WHILE cmbs->vpnumber=hosp+temptr->xurnum .AND. !EOF()
        DELETE
        SKIP
        counter8 = counter8 +1
    ENDDO
ENDIF
SELECT 2
ENDIF
*
SELECT 2
skip
IF errupd
    STORE cterrt + 1 TO cterrt
ENDIF

```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

45: Deferred Admission (Cat 4) With Treatment Status

45: Removal Reason Emergency (03) and Deferred Admisson (Cat 4) With Treatment Status

Pseudocode

```
IF
(
    [Treatment Status] (data item 27) = 3 or 4
    AND
    [Admission Category] (data item 1) = 4
)
THEN
    PRINT error message 45: Deferred Admisson (Cat 4) With Treatment Status

(
    [Treatment Status] (data item 27) = 5
    AND
    [Admission Category] (data item 1) = 4
    AND
    [Reason For Removal] (data item 21) = 03
)
THEN
    PRINT error message 45: Removal Reason Emergency (03) and Deferred Admisson (Cat 4)
    With Treatment Status
```

Status

Active.

Implementation

```
*IF xstatus$'345' .and. xurgst='4' .and. xreasof='03'
IF (xstatus$'34' .and. xurgst='4') .or. (xstatus='5' .and. xurgst='4' .and. xreasof='03')
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    IF temptr->xstatus="5"
        REPLACE errtext WITH urnum +"      Removal Reason Emergency (03) and Deferred Admisson
(Cat 4) With Treatment Status - " + temptr->xstatus
    ELSE
        REPLACE errtext WITH urnum +"      Deferred Admisson (Cat 4) With Treatment Status - "
+ temptr->xstatus
    ENDIF
    REPLACE errnumber WITH "45"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

46: Admit/Remove Date Prior TO Date Created

Pseudocode

```
IF
(
    [Admission/Removal Date] (data item 2) < [Date Created]
    AND
    [Date Added To List] (data item 11) is not blank
)
THEN
    PRINT error message 46: Admit/Remove Date Prior TO Date Created
```

Status

Active.

Implementation

```
*check for future date
IF xenddat > xcreatdate .and. dtoc(xenddat) <> " / / "
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "    Admit/Remove Date prior TO Date Created - " +
    dtoc(temptr->xenddat) + " < " + dtoc(temptr->xcreatdate)
    REPLACE errnumber WITH "46"
    SELECT 2
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

47: Excluded Legacy Indicator Procedure Code

Pseudocode

```
IF
(
  [Intended Procedure] (data item 17) is valid
  AND
  (
    [Treatment Status] (data item 27) = 1 or 2
    OR
    [Admission/Removal Date] (data item 2) is blank
  )
)
THEN
  PRINT error message 47: Excluded Legacy Indicator Procedure Code
```

Status

Active.

Implementation

```
* check for invalid procedure code
STORE "J" + xcode TO gkey
SELECT 5
FIND &gkey
IF eof()
  STORE .T. TO errupd
  SELECT 4
  APPEND BLANK
  REPLACE errtext WITH urnum + "      Invalid Procedure Code - " + temptr->xcode
  REPLACE errnumber WITH "15"
ELSE
  * note genend part of or section probably not needed
  IF (temptr->xdaton>genend .OR. (temptr->xstatus$'12' .AND. DATE()>=CTOD("01/08/2016")))
  .AND. dtoc(genend) <> " / / "
    * old code used
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Excluded Legacy Indicator Procedure Code - " +
temptr->xcode
    REPLACE errnumber WITH "47"
  ELSE
    SELECT 5
    IF temptr->xenddat>genend .AND. dtoc(genend) <> " / / " .AND. dtoc(temptr-
>xenddat) <> " / / "
      * old code used too late
      STORE .T. TO errupd
      SELECT 4
      APPEND BLANK
      REPLACE errtext WITH urnum + "      Excluded Legacy Indicator Procedure Code - " +
temptr->xcode
      REPLACE errnumber WITH "47"
    ENDIF
```

```

ENDIF
SELECT 5
IF temptr->xenddat<genstart .AND. dtoc(temptr->xenddat) <> " / / "
  * new code used too early
  STORE .T. TO errupd
  SELECT 4
  APPEND BLANK
  REPLACE errtext WITH urnum +"      Excluded Intended Procedure Code For Past Record - "
+ temptr->xcode
  REPLACE errnumber WITH "48"
ENDIF
ENDIF

```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

48: Excluded Intended Procedure Code For Past Record

Pseudocode

```
IF
(
    [Intended Procedure] (data item 17) is valid
    AND
    [Admission/Removal Date] (data item 2) is blank
)
THEN
    PRINT error message 48: Excluded Intended Procedure Code For Past Record
```

Status

Active.

Implementation

```
* check for invalid procedure code
STORE "J" + xcode TO gkey
SELECT 5
FIND &gkey
IF eof()
    STORE .T. TO errupd
    SELECT 4
    APPEND BLANK
    REPLACE errtext WITH urnum + "      Invalid Procedure Code - " + temptr->xcode
    REPLACE errnumber WITH "15"
ELSE
    * note genend part of or section probably not needed
    IF (temptr->xdaton>genend .OR. (temptr->xstatus$'12' .AND. DATE()>=CTOD("01/08/2016")))
    .AND. dtoc(genend) <> " / / "
        * old code used
        STORE .T. TO errupd
        SELECT 4
        APPEND BLANK
        REPLACE errtext WITH urnum + "      Excluded Legacy Indicator Procedure Code - " +
temptr->xcode
        REPLACE errnumber WITH "47"
    ELSE
        SELECT 5
        IF temptr->xenddat>genend .AND. dtoc(genend) <> " / / " .AND. dtoc(temptr-
>xenddat) <> " / / "
            * old code used too late
            STORE .T. TO errupd
            SELECT 4
            APPEND BLANK
            REPLACE errtext WITH urnum + "      Excluded Legacy Indicator Procedure Code - " +
temptr->xcode
            REPLACE errnumber WITH "47"
        ENDIF
    ENDIF
    SELECT 5
    IF temptr->xenddat<genstart .AND. dtoc(temptr->xenddat) <> " / / "
```



```
* new code used too early
STORE .T. TO errupd
SELECT 4
APPEND BLANK
REPLACE errtext WITH urnum +"      Excluded Intended Procedure Code For Past Record - "
+ tempr->xcode
REPLACE errnumber WITH "48"
ENDIF
ENDIF
```

Issue

None.

Update data quality check

None.

Result

The pseudocode for this data quality check has been created.

Action

None.

.

For more information

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