

Nutrient delivery comparison tables: Preterm Infants

Comparison of breast milk, preterm formula and term formula, +/-
fortification and/or vitamin supplementation at feed volumes of
160mL/kg/day

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Note:

This guideline provides advice of a general nature. This statewide guideline has been prepared to promote and facilitate standardisation and consistency of practice, using a multidisciplinary approach. The guideline is based on a review of published evidence and expert opinion.

Information in this statewide guideline is current at the time of publication.

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Health practitioners in the South Australian public health sector are expected to review specific details of each patient and professionally assess the applicability of the relevant guideline to that clinical situation.

If for good clinical reasons, a decision is made to depart from the guideline, the responsible clinician must document in the patient's medical record, the decision made, by whom, and detailed reasons for the departure from the guideline.

This statewide guideline does not address all the elements of clinical practice and assumes that the individual clinicians are responsible for discussing care with consumers in an environment that is culturally appropriate and which enables respectful confidential discussion. This includes:

- The use of interpreter services where necessary,
- Advising consumers of their choice and ensuring informed consent is obtained,
- Providing care within scope of practice, meeting all legislative requirements and maintaining standards of professional conduct, and
- Documenting all care in accordance with mandatory and local requirements

Practice Points

The following tables list recommended nutritional intakes (RNIs)
for preterm infants up to 2500grams

- > Composition of fortifiers and formulas vary, and should be taken into account when prescribing additional supplementation. The following tables may be used as an adjunct to dose calculations for nutritional supplements such as vitamin D, iron and folic acid in preterm infants.
- > Nutrient content comparisons are made against published Recommended Nutrient Intakes (RNIs) for very low birth weight preterm infants.
- > Koletzko (2014) RNIs listed in these tables are based on evidence for preterm infants with weights less than and equal to 1500grams. Alternative recommendations include ESPGHAN (2010), which list RNIs for those infants less than and equal to 1800grams. These values can be generally used for preterm infants up to 2500g as there are no other published RNIs for this age group (consensus recommendation with South Australian neonatal units).
- > For babies greater than 2500grams, the National Health and Medical Research Council Nutrient Reference Values for infants 0-6 months can be used.
- > Efforts have been taken to ensure the accuracy of the tables but changes to fortifier and formula composition made by manufacturers may result in small variations.

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- > These tables provide information to compare nutrients delivered by
 - > breastmilk fortified with commercial fortifiers and preterm formulas with referenced preterm infant recommended nutrient intakes when fed at 160mL/kg/day and when fed at 160mL/kg/day with the addition of daily Penta-vite Infant 0.45mL
 - > unfortified breastmilk with selected standard strength term formulas with referenced preterm infant recommended nutrient intakes when fed at 160mL/kg/day and when fed at 160mL/kg/day with the addition of daily Penta-vite Infant 0.45mL, Colecalciferol 10microg, Vitamin E 10.5mg (0.1mL) and Folic acid 62.5microg
 - > unfortified breastmilk with standard strength and fortified elemental formulas when fed at 160mL/kg/day with the addition of daily Penta-vite Infant 0.45mL, Colecalciferol 10microg, Vitamin E 10.5mg (0.1mL) and Folic acid 62.5microg
- > Penta-vite[®] Infant contains B group vitamins and ascorbic acid (vitamin C), which are not listed in the general table's RNIs (with the exception of folic acid).

[Comparison of nutrients delivered by breastmilk fortified with commercial fortifiers and preterm formulas at feed volumes of 160mL/Kg/day](#)

[Comparison of nutrients delivered by breastmilk fortified with commercial fortifiers and preterm formulas at feed volumes of 160mL/Kg/day, with the addition of daily Penta-vite Infant 0.45mL](#)

[Comparison of nutrients delivered by unfortified breastmilk and selected standard strength term formulas given at 160ml/kg/day](#)

[Comparison of nutrients delivered by unfortified breastmilk and selected standard strength term formulas given at 160ml/kg/day, with the addition of daily Penta-vite Infant 0.45mL, Colecalciferol \(D3\) 10microg, Vitamin E 10.5mg \(0.1ml\), and Folic acid 62.5microg](#)

[Comparison of nutrients delivered by unfortified breastmilk and selected standard strength and fortified elemental formulas given at 160ml/kg/day, with the addition of daily Penta-vite Infant 0.45mL, Colecalciferol \(D3\) 10microg, Vitamin E 10.5mg \(0.1ml\), and Folic acid 62.5microg](#)



Comparison of nutrients delivered by breastmilk fortified with commercial fortifiers and preterm formulas at feed volumes of 160mL/Kg/day

Units are /kg/day with the exception of Vitamin D RNI which is a daily intake regardless of weight. Blue and red highlights indicate intakes <75% and >125% respectively of the lower and upper limits of the Koletzko recommended intakes for preterm infants 2014. This table is an extract from the Flinders Medical Centre Enteral Feeding Guideline.

Koletzko et al 2014 Preterm Infant Recommended Nutrient Intakes /kg/day • Except Vit D which is daily intake		Mature Breastmilk NHMRC	Preterm Breastmilk Week2-8 Boyce et al 2016	Preterm Breastmilk Week 1 Boyce et al 2016	S26 Alula LBW (Aspen)	EBM + S26 Alula HMF (Aspen) 4 sachets/100ml	Aptamil Gold+ Preterm (Nutricia)	EBM + Nutricia Breast Milk Fortifier 2 sachets/100mL	PreNAN Gold (Nestle)	EBM + PreNAN HMF (Nestle) 4 sachets/100ml
Energy (cals)	110-135	112	105	91	128	128	130	131	128	133
Protein (g)	3.5-4.5	1.7	2.0	3.0	4.3	3.6	4.2	4.0	4.6	4.3
Type of Protein		60% Whey 40% Casein			60% Whey 40% Casein		60% Whey 40% Casein	50% /50% extensively hydrolysed Whey / Casein	100% partially hydrolysed whey	100% partially hydrolysed whey
Fat (g)	4.8-6.6	7.0	5.5	4.1	6.1	5.7	6.2	5.6	6.4	6.7
Type of Fat									39% MCT	Fortifier 61% MCT
DHA (mg)	18-60	17.9			27.2	2.9	21.8	17.9	23.1	26.9
Carbohydrate (g)	11.6-13.2	11.0	11.7	10.5	14.0	15.3	13.4	16.2	13.0	13.8
Type of carbohydrate		Lactose 100%			Lactose 50%	Fortifier 15% lactose 85% maltodextrin.	Lactose 56%	Fortifier Maltodextrin 100%	Lactose 45%	Fortifier Maltodextrin 100%
Sodium (mg)	69-115	27.2			86.4	56.0	112	84.80	80.96	86.08
Calcium (mg)	120-200	51.2			161.6	198.4	150.4	156.8	185.6	172.8
Phosphorus (mg)	60-140	19.8			83.2	92.8	99.2	80.6	123.2	90.2
Iron (mg)	2 - 3	0.04			2.8	0.04	2.6	0.04	2.9	2.9
Zinc (mg)	1.4-2.5	0.4			1.9	0.8	1.8	1.4	1.9	1.9
Vitamin A (microg)	400-1100	49.6			576.0	484.8	577.6	420.8	592.0	580.8
Vitamin D (microg)	10-25	0.2			5.4	12.3	4.8	8.2	5.9	5.8
Vitamin E (mg)	2.2-11	0.8			5.3	5.6	5.6	4.9	5.8	6.8
Vitamin K (microg)	4.4-28.0	0.4			10.1	18.3	9.6	10.64	10.24	12.4
Folic acid (microg)	35-100	13.6			56.0	61.6	56.0	61.6	65.6	73.8
Osmolality mOsm/kg water		~275			298				293	390

Notes: Mature Breastmilk average composition – NHMRC, 2012 Infant feeding guidelines; NHMRC, Nutrient Reference Values ANZ, 2005. *DHA highly variable in line with maternal diet. Preterm Breastmilk week 2-8 macronutrient content used for calculations. Micronutrient content of mature EBM used.

Comparison of nutrients delivered by breastmilk fortified with commercial fortifiers and preterm formulas at feed volumes of 160mL/Kg/day, with the addition of daily Penta-vite Infant 0.45mL fixed dose/day*

*contribution from Penta-vite Infant identified in brackets and is fixed dose/day regardless of weight. Adequacy to meet RNI needs individual calculation for affected nutrients.

Units are /kg/day with the exceptions of Vitamin D RNI value & supplementation value which are daily intake regardless of weight. Blue and red highlights indicate intakes <75% and >125% respectively of the lower and upper limits of the Koletzko recommended intakes for preterm infants 2014. This table is an extract from the Flinders Medical Centre Enteral Feeding Guideline.

Koletzko et al 2014 Preterm Infant Recommended Nutrient Intakes /kg/day • Except Vit D which is daily intake	Mature Breastmilk NHMRC	Preterm Breastmilk Week2-8 Boyce et al 2016	Preterm Breastmilk Week 1 Boyce et al 2016	S26 Alula LBW (Aspen)	EBM + S26 Alula HMF (Aspen) 4 sachets/100ml	Aptamil Gold+ Preterm (Nutricia)	EBM + Nutricia Breast Milk Fortifier 2 sachets/100ml	PreNAN Gold (Nestle)	EBM + PreNAN HMF (Nestle) 4 sachets/100ml	
Energy (cals)	110-135	112	105	91	128	128	130	131	128	133
Protein (g)	3.5-4.5	1.7	2.0	3.0	4.3	3.6	4.2	4.0	4.6	4.3
Type of Protein		60% Whey 40% Casein			60% Whey 40% Casein		60% Whey 40% Casein	50% /50% extensively hydrolysed Whey / Casein	100% partially hydrolysed whey	100% partially hydrolysed whey
Fat (g)	4.8-6.6	7.0	5.5	4.1	6.1	5.7	6.2	5.5	6.4	6.7
Type of Fat									39% MCT	Fortifier 61% MCT
DHA (mg)	18-60	17.9			27.2	2.9	21.8	17.9	23.1	26.9
Carbohydrate (g)	11.6-13.2	11.0	11.7	10.5	14.0	15.3	13.4	16.2	13.0	13.8
Type of carbohydrate		Lactose 100%			Lactose 50%	Fortifier 15% lactose 85% maltodextrin.	Lactose 56%	Fortifier Maltodextrin 100%	Lactose 45%	Fortifier Maltodextrin 100%
Sodium (mg)	69-115	27.2			86.4	56.0	112.0	84.8	81.0	86.1
Calcium (mg)	120-200	28.4			161.6	198.4	150.4	156.8	185.6	172.8
Phosphorus (mg)	60-140	19.8			83.2	92.8	99.2	80.6	123.2	90.2
Iron (mg)	2 - 3	0.04			2.8	0.04	2.6	0.04	2.9	2.9
Zinc (mg)	1.4-2.5	0.4			1.9	0.8	1.8	1.4	1.9	1.9
Vitamin A (microg)	400-1100	49.6 (+490)			576.0 (+490)	484.8 (+490)	577.6 (+490)	420.8 (+490)	592.0 (+490)	580.8 (+490)
Vitamin D (microg)	10-25	0.2 (+10)			5.4 (+10)	12.3 (+10)	4.8 (+10)	8.2 (+10)	5.9 (+10)	5.8 (+10)
Vitamin E (mg)	2.2-11	0.8			5.3	5.6	5.6	4.9	5.8	6.8
Vitamin K (microg)	4.4-28.0	0.4			10.1	18.3	9.6	10.6	10.2	12.4
Folic acid (microg)	35-100	13.6			56.0	61.6	56.0	61.6	65.6	73.8
Osmolality mOsm/kg water		~275			298				293	390

Notes: Mature Breastmilk average composition – NHMRC, 2012 Infant feeding guidelines; NHMRC, Nutrient Reference Values ANZ, 2005.*DHA highly variable in line with maternal diet. Preterm Breastmilk week 2-8 macronutrient content used for calculations. Micronutrient content of mature EBM used.

Comparison of nutrients delivered by unfortified breastmilk and selected standard strength term formulas given at 160ml/kg/day

Units are /kg/day with the exception of Vitamin D RNI value which is a daily intake regardless of weight. Blue and red highlights indicate intakes <75% and >125% respectively of the lower and upper limits of the Koletzko recommended intakes for preterm infants 2014. This table is an extract from the Flinders Medical Centre Enteral Feeding Guideline.

Koletzko et al 2014 Preterm Infant Recommended Nutrient Intakes /kg/day • Except Vit D which is daily intake	Mature Breastmilk NHMRC	NAN Supreme 1 (Nestle)	Alfare (Nestle)	Monogen (Nutricia)	S26 Alula Lactose Free 1 (Aspen)	Neocate Gold (Nutricia)	Aptamil Gold + Pepti-Junior (Nutricia)	Aptamil Profutura (Nutricia)	NAN OptiPro Gold 1 (Nestle)	S26 Alula Gold Newborn (Aspen)	
Energy (cals)	110-135	112	107	107	120	107	107	106	102	107	106
Protein (g)	3.5-4.5	1.6	2.1	3.2	3.5	2.4	3.0	2.9	2.2	2.1	2.1
Type of Protein		60% Whey 40% Casein	100% partially hydrolysed whey	100% extensively hydrolysed whey	100% Whole whey	60% Whey 40% Casein	Amino Acids	100% extensively hydrolysed whey	60% Whey 40% Casein	70% Whey 30% Casein	65% Whey 35% Casein
Fat (g)	4.8-6.6	7.0	5.6	5.4	3.5	5.8	5.4	5.6	5.6	5.8	5.8
Type of Fat			MCT 0%	MCT 40%	MCT 84%	MCT 0%	MCT 31%	MCT 51%	MCT 0%	MCT 0%	MCT 0%
DHA (mg)	18-60	17.92	13.0	9.1	0.0	0.0	18.1	10.7	22.4	12.6	19.2
Carbohydrate (g)	11.6-13.2	11.02	12.2	11.7	18.6	11.5	11.5	10.9	10.9	11.8	11.5
Type of carbohydrate		Lactose 100%	Lactose 58% Maltodextrin	Lactose <0.01g/100ml	Lactose 0%	Lactose 0%	Lactose 0%	Lactulose <0.1g/100mL	Lactose 100%	Lactose Maltodextrin	Lactose 100%
Sodium (mg)	69-115	27.2	44.8	52.8	56.0	28.8	41.8	28.8	33.6	27.2	28.8
Calcium (mg)	120-200	51.2	80.0	81.6	96.0	88.0	123.8	80.0	76.8	68.8	72.0
Phosphorus (mg)	60-140	19.8	44.8	54.4	56.0	59.2	87.7	44.8	48.0	38.4	41.6
Iron (mg)	2 - 3	0.04	1.1	1.1	1.8	1.3	1.6	1.2	1.2	1.1	1.3
Zinc (mg)	1.4-2.5	0.4	1.1	1.1	1.0	1.0	1.2	0.8	0.8	1.1	1.0
Vitamin A (microg)	400-1100	49.6	110.4	112.0	87.4	110.4	89.6	83.2	96.0	108.8	96.0
Vitamin D (microg)	10-25	0.2	1.4	1.6	3.2	1.9	1.9	2.1	1.2	1.4	1.9
Vitamin E (mg)	2.2-11	0.8	2.1	1.8	1.3	1.2	1.0	1.6	2.2	1.8	1.2
Vitamin K (microg)	4.4-28.0	0.4	9.4	8.6	4.8	10.7	9.4	7.5	8.8	9.0	10.7
Folate (microg)	35-100	13.6	17.6	13.0	18.2	17.6	14.1	14.2	18.2	16	17.6
Osmolality mOsm/kg water		295	322	217	235		340	210		311	

Notes: Mature Breastmilk average composition – NHMRC, 2012 Infant feeding guidelines; NHMRC, Nutrient Reference Values ANZ, 2005. *DHA highly variable in line with maternal diet. Analyses based on powdered formulas made up as per directions

Comparison of nutrients delivered by unfortified breastmilk and selected standard strength term formulas given at 160ml/kg/day, with the addition of daily Penta-vite Infant 0.45mL, Colecalciferol (D3) 10microg, Vitamin E 10.5mg (0.1ml), and Folic acid 62.5microg

*contribution from nutrient supplements identified in brackets and is fixed dose/day regardless of weight. Adequacy to meet RNI needs individual calculation for affected nutrients.

Units are /kg/day with the exceptions of Vitamin D RNI value & supplement value which is a daily intake regardless of weight. Blue and red highlights indicate intakes <75% and >125% respectively of the lower and upper limits of the Koletzko recommended intakes for preterm infants 2014. This table is an extract from the Flinders Medical Centre Enteral Feeding Guideline.

Koletzko et al 2014 Preterm Infant Recommended Nutrient Intakes /kg/day • Except Vit D which is daily intake	Mature Breastmilk NHMRC	NAN Supreme 1 (Nestle)	Alfare (Nestle)	Monogen (Nutricia)	S26 Alula Lactose Free 1 (Aspen)	Neocate Gold (Nutricia)	Aptamil Gold + Pepti-Junior (Nutricia)	Aptamil Profutura 1 (Nutricia)	NAN OptiPro Gold 1 (Nestle)	S26 Alula Gold Newborn (Aspen)	
Energy (cals)	110-135	112	107	107	120	107	107	106	102	107	106
Protein (g)	3.5-4.5	1.6	2.1	3.2	3.5	2.4	3.0	2.9	2.2	2.1	2.1
Type of Protein		60% Whey 40% Casein	100% partially hydrolysed whey	100% extensively hydrolysed whey	100% Whole whey	60% Whey 40% Casein	Amino Acids	100% extensively hydrolysed whey	60% Whey 40% Casein	70% Whey 30% Casein	65% Whey 35% Casein
Fat (g)	4.8-6.6	7.01	5.6	5.4	3.5	5.8	5.4	5.6	5.6	5.8	5.8
Type of Fat			MCT 0%	MCT 40%	MCT 84%	MCT 0%	MCT 31%	MCT 51%	MCT 0%	MCT 0%	MCT 0%
DHA (mg)	18-60	17.9	13.0	9.1	0.0	0.0	18.1	10.7	22.4	12.6	19.2
Carbohydrate (g)	11.6-13.2	11.0	12.2	11.7	18.6	11.5	11.5	10.9	10.9	11.8	11.5
Type of carbohydrate		Lactose 100%	Lactose 58% Maltodextrin	Lactose <0.01g/100ml	Lactose 0%	Lactose 0%	Lactose 0%	Lactose <0.1g/100mL	Lactose 100%	Lactose Maltodextrin	Lactose 100%
Sodium (mg)	69-115	27.2	44.8	52.8	56.0	28.8	41.8	28.8	33.6	27.2	28.8
Calcium (mg)	120-200	51.2	80.0	81.6	96.0	88.0	123.8	80.0	76.8	68.8	72.0
Phosphorus (mg)	60-140	19.8	44.8	54.4	56.0	59.2	87.7	44.8	48.0	38.4	41.6
Iron (mg)	2 - 3	0.04	1.1	1.1	1.8	1.3	1.6	1.2	1.2	1.1	1.3
Zinc (mg)	1.4-2.5	0.4	1.1	1.1	1.0	1.0	1.2	0.8	0.8	1.1	1.0
Vitamin A (microg)	400-1100	49.6 (+490)	107.2 (+490)	112.0 (+490)	87.4 (+490)	110.4 (+490)	89.6 (+490)	83.2 (+490)	96.0 (+490)	108.8 (+490)	96.0 (+490)
Vitamin D (microg)	10-25	0.2 (+20)	1.4 (+20)	1.6 (+20)	3.2 (+20)	1.9 (+20)	1.9 (+20)	2.1 (+20)	1.2 (+20)	1.4 (+20)	1.9 (+20)
Vitamin E (mg)	2.2-11	0.8 (+10.5)	2.1 (+10.5)	1.8 (+10.5)	1.3 (+10.5)	1.2 (+10.5)	1.0 (+10.5)	1.6 (+10.5)	2.2 (+10.5)	1.8 (+10.5)	1.2 (+10.5)
Vitamin K (microg)	4.4-28.0	0.4	9.4	8.6	4.8	10.7	9.4	7.5	8.8	9.0	10.7
Folate (microg)	35-100	13.6 (+62.5)	17.6 (+62.5)	13.0 (+62.5)	18.2 (+62.5)	17.2 (+62.5)	23.5 (+62.5)	14.2 (+62.5)	18.2 (+62.5)	16 (+62.5)	17.6 (+62.5)
Osmolality mOsm/kg water		295	322	217	235		340	210		311	

Notes: Mature Breastmilk average composition – NHMRC, 2012 Infant feeding guidelines; NHMRC, Nutrient Reference Values ANZ, 2005. *DHA highly variable in line with maternal diet. Analyses based on powdered formulas made up as per directions

Comparison of nutrients delivered by unfortified breastmilk and selected standard strength and fortified elemental formulas given at 160ml/kg/day, with the addition of daily Penta-vite Infant 0.45mL, Colecalciferol (D3) 10microg, Vitamin E 10.5mg (0.1ml), and Folic acid 62.5microg

*contribution from nutrient supplements identified in brackets and is fixed dose/day regardless of weight. Adequacy to meet RNI needs individual calculation for affected nutrients.

Units are /kg/day with the exceptions of Vitamin D RNI value & supplement which is a daily intake regardless of weight. Blue and red highlights indicate intakes <75% and >125% respectively of the lower and upper limits of the Koletzko recommended intakes for preterm infants 2014. This table is an extract from the Flinders Medical Centre Enteral Feeding Guideline.

Koletzko et al 2014 Preterm Infant Recommended Nutrient Intakes /kg/day • Except Vit D which is daily intake	Mature Breastmilk NHMRC	Neocate Gold (Nutricia)	Neocate Gold 125% Strength (Nutricia)	Elecare LCP (Abbott)	Elecare LCP 125% Strength (Abbott)	Alfamino (Nestle)	Alfamino 125% Strength (Nestle)	
Energy (cals)	110-135	112	107	134.1	108.8	136.0	112.0	140.0
Protein (g)	<1kg 4-4.5 1-1.8kg 3.5-4.0	1.6	3.0	3.8	3.5	4.5	3.0	3.8
Type of Protein		60% Whey 40% Casein	Amino Acids	Amino Acids	Amino Acids	Amino Acids	Amino Acids	Amino Acids
Fat (g)	4.8-6.6	7.0	5.4	6.9	5.4	6.9	5.4	6.9
Type of Fat	<40% MCT		MCT 31%	MCT 31%	MCT 33%	MCT 33%	MCT 25%	MCT 25%
DHA (mg)	18-60	17.9	18.1	22.6	9.9	12.5	11.2	14.1
Carbohydrate (g)	11.6-13.2	11.0	11.5	14.4	12.5	15.7	12.6	15.8
Type of carbohydrate		Lactose 100%	Lactose 0%	Lactose 0%	Lactose 0%	Lactose 0%	Lactose 0%	Lactose 0%
Sodium (mg)	69-115	27.2	41.8	52.2	54.4	68.0	40.0	50.1
Calcium (mg)	120-200	51.2	123.8	154.9	129.6	162.1	91.2	114.1
Phosphorus (mg)	60-140	19.8	87.7	109.6	98.1	122.6	62.4	78.1
Iron (mg)	2 - 3	0.04	1.6	2.1	1.9	2.4	1.1	1.4
Zinc (mg)	1.4-2.5	0.4	1.2	1.5	1.3	1.6	1.1	1.4
Vitamin A (microg)	400-1100	49.6 (+490)	89.6 (+490)	112.0 (+490)	118.4 (+490)	148 (+490)	129.6 (+490)	162.1 (+490)
Vitamin D (microg)	10-25	0.2 (+20)	1.9 (+20)	2.4 (+20)	1.6 (+20)	2.1 (+20)	1.4 (+20)	1.8 (+20)
Vitamin E (mg)	2.2-11	0.8 (+10.5)	1.0 (+10.5)	1.3 (+10.5)	2.1 (+10.5)	2.6 (+10.5)	2.7 (+10.5)	3.4 (+10.5)
Vitamin K (microg)	4.4-28.0	0.4	9.4	11.8	12.8	16.0	9.8	12.2
Folate (microg)	35-100	13.6 (+62.5)	23.5 (+62.5)	29.4 (+62.5)	39.4 (+62.5)	49.3 (+62.5)	13.4 (+62.5)	16.8 (+62.5)
Osmolality mOsm/kg water		295	340					

Notes: Mature Breastmilk average composition – NHMRC, 2012 Infant feeding guidelines; NHMRC, Nutrient Reference Values ANZ, 2005. *DHA highly variable in line with maternal diet. Analyses based on powdered formulas made up as per directions

References

- > Flinders Medical Centre Enteral Feeding Guidelines
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 Does this policy replace another policy with a different title? **N**
 If so, which policy (title)?

Approval Date	Version	Who approved New/Revised Version	Reason for Change
12/02/2019	V1	SA Health Safety and Quality Strategic Governance Committee	Original SA Health Safety and Quality Strategic Governance Committee approved version