

**SPEKIFIKASI TEKNIKAL BAGI MEMBEKALKAN  
SUSU PELBAGAI FUNGSI  
BAGI JABATAN DIETETIK DAN SAJIAN  
HOSPITAL TUANKU FAUZIAH  
KEMENTERIAN KESIHATAN MALAYSIA  
TAHUN 2018**

**BAHAGIAN II**

**SUSU MEDICAL FOOD FORMULA FOR PAEDIATRIC**

**SENARAI ITEM BAHAGIAN II: SUSU MEDICAL FOOD FORMULA FOR PAEDIATRIC**

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2.2	Premature Liquid Formula
2.3	Infant Powdered Formula
2.4	Infant Powdered Formula For Regurgitation
2.5	Infant Powdered Lactose Free Formula
2.6	Infant Powdered Soya Based Formula
2.7	Infant Powdered Elemental Formula
2.8	Infant Powdered Extensively Hydrolyzed Rice Based Formula
2.9	Infant Powdered Partially Hydrolyzed Protein Formula
2.10	Follow-up Powdered Formula
2.11	Paediatric Powdered Complete Nutrition Formula For Children Above 1 Year (various flavor)
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2.13	Human Milk Fortifier

## **BAHAGIAN II : SUSU MEDICAL FOOD FORMULA FOR PEADATRIC**

### **2.1 Premature Powdered Formula (300-450g/packaging)**

2.1.1	This formula is a nutritionally complete powder for feeding of preterm infants from birth until infants achieve 2.5kg and can be used as a sole source of nutrition by oral or tube feeding.																		
2.1.2	It should be high in energy and minerals to meet the need of preterm infants.																		
2.1.3	It should contain MCT oil																		
2.1.4	The nutrition facts in every 100g of product is as below:																		
	<table border="1"><thead><tr><th><b>Nutrient</b></th><th><b>100g</b></th></tr></thead><tbody><tr><td>Energy</td><td>460 – 530 kcal</td></tr><tr><td>Protein</td><td>13 – 16 g</td></tr><tr><td>Carbohydrate</td><td>40 – 70 g</td></tr><tr><td>Fat</td><td>20 – 30g</td></tr><tr><td>Sodium</td><td>280 – 500 mg</td></tr><tr><td>Potassium</td><td>400 - 600 mg</td></tr><tr><td>Phosphorus</td><td>300 – 400 mg</td></tr><tr><td>Calcium</td><td>400 – 620 mg</td></tr></tbody></table>	<b>Nutrient</b>	<b>100g</b>	Energy	460 – 530 kcal	Protein	13 – 16 g	Carbohydrate	40 – 70 g	Fat	20 – 30g	Sodium	280 – 500 mg	Potassium	400 - 600 mg	Phosphorus	300 – 400 mg	Calcium	400 – 620 mg
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Fat	20 – 30g																		
Sodium	280 – 500 mg																		
Potassium	400 - 600 mg																		
Phosphorus	300 – 400 mg																		
Calcium	400 – 620 mg																		

### **2.2 Premature Liquid Formula (50 – 100 ml/bottle)**

2.2.1	This formula is a nutritionally complete and ready to use liquid formula for feeding of preterm infants from birth until infants achieve 2.5kg and can be used as a sole source of nutrition by oral or tube feeding.																		
2.2.2	It should be high in energy and minerals to meet the need of preterm infants.																		
2.2.3	It should contain MCT oil																		
2.2.4	The nutrition facts in every 100 ml of product is as below:																		
	<table border="1"><thead><tr><th><b>Nutrient</b></th><th><b>100 ml</b></th></tr></thead><tbody><tr><td>Energy</td><td>70 – 100 kcal</td></tr><tr><td>Protein</td><td>2 – 3 g</td></tr><tr><td>Carbohydrate</td><td>8 – 10 g</td></tr><tr><td>Fat</td><td>3.5 – 6 g</td></tr><tr><td>Sodium</td><td>20 – 50 mg</td></tr><tr><td>Potassium</td><td>70 – 110 mg</td></tr><tr><td>Phosphorus</td><td>40 – 90 mg</td></tr><tr><td>Calcium</td><td>90 – 120 mg</td></tr></tbody></table>	<b>Nutrient</b>	<b>100 ml</b>	Energy	70 – 100 kcal	Protein	2 – 3 g	Carbohydrate	8 – 10 g	Fat	3.5 – 6 g	Sodium	20 – 50 mg	Potassium	70 – 110 mg	Phosphorus	40 – 90 mg	Calcium	90 – 120 mg
<b>Nutrient</b>	<b>100 ml</b>																		
Energy	70 – 100 kcal																		
Protein	2 – 3 g																		
Carbohydrate	8 – 10 g																		
Fat	3.5 – 6 g																		
Sodium	20 – 50 mg																		
Potassium	70 – 110 mg																		
Phosphorus	40 – 90 mg																		
Calcium	90 – 120 mg																		

### 2.3 Infant Powdered Formula (300-450g/packaging)

2.3.1	This formula is a nutritionally complete powder for feeding of term infants from birth until 12 months old and can be used as a sole source of nutrition by oral or tube feeding.	
2.3.2	The nutrition facts in every 100 g of product is as below:	
	<b>Nutrient</b>	<b>100 g</b>
	Energy	470 – 530 kcal
	Protein	9 – 13 g
	Carbohydrate	50 – 60 g
	Fat	20 – 30 g
	Sodium	120 – 150 mg
	Potassium	400 – 500 mg
	Phosphorus	200 – 300 mg
	Calcium	300 – 500 mg

### 2.4 Infant Powdered Formula For Regurgitation (300-450g/packaging)

2.4.1	This formula is a nutritionally complete powder for feeding of infants who regurgitate frequently and can be used as a sole source of nutrition by oral or tube feeding.	
2.4.2	It should be thickened with added of thickening agent.	
2.4.3	The nutrition facts in every 100 g of product is as below:	
	<b>Nutrient</b>	<b>100 g</b>
	Energy	470 – 530 kcal
	Protein	9 – 13 g
	Carbohydrate	50 – 60 g
	Fat	20 – 30 g

## 2.5 Infant Powdered Lactose Free Formula (300-450g/packaging)

2.5.1	This formula is a nutritionally complete cow's milk based <b>lactose-free</b> powder for feeding of term infants from birth until 12 months old and can be used as a sole source of nutrition by oral or tube feeding.										
2.5.2	The nutrition facts in every 100 g of product is as below:										
	<table border="1"> <thead> <tr> <th data-bbox="300 598 847 636">Nutrient</th> <th data-bbox="852 598 1267 636">100g</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 642 847 680">Energy</td> <td data-bbox="852 642 1267 680">470 – 530 kcal</td> </tr> <tr> <td data-bbox="300 687 847 725">Protein</td> <td data-bbox="852 687 1267 725">9 – 13 g</td> </tr> <tr> <td data-bbox="300 732 847 770">Carbohydrate</td> <td data-bbox="852 732 1267 770">50 – 60 g</td> </tr> <tr> <td data-bbox="300 777 847 815">Fat</td> <td data-bbox="852 777 1267 815">20 – 30 g</td> </tr> </tbody> </table>	Nutrient	100g	Energy	470 – 530 kcal	Protein	9 – 13 g	Carbohydrate	50 – 60 g	Fat	20 – 30 g
Nutrient	100g										
Energy	470 – 530 kcal										
Protein	9 – 13 g										
Carbohydrate	50 – 60 g										
Fat	20 – 30 g										

## 2.6 Infant Powdered Soya Based Formula (300-450g/packaging)

2.6.1	This formula is a nutritionally complete soya based powder for feeding of term infants from birth until 12 months old and can be used as a sole source of nutrition by oral or tube feeding.										
2.6.2	The nutrition facts in every 100 g of product is as below:										
	<table border="1"> <thead> <tr> <th data-bbox="300 1417 847 1456">Nutrient</th> <th data-bbox="852 1417 1267 1456">100 g</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 1462 847 1500">Energy</td> <td data-bbox="852 1462 1267 1500">470 – 530 kcal</td> </tr> <tr> <td data-bbox="300 1507 847 1545">Protein</td> <td data-bbox="852 1507 1267 1545">9 – 13 g</td> </tr> <tr> <td data-bbox="300 1552 847 1590">Carbohydrate</td> <td data-bbox="852 1552 1267 1590">50 – 60 g</td> </tr> <tr> <td data-bbox="300 1597 847 1635">Fat</td> <td data-bbox="852 1597 1267 1635">20 – 30 g</td> </tr> </tbody> </table>	Nutrient	100 g	Energy	470 – 530 kcal	Protein	9 – 13 g	Carbohydrate	50 – 60 g	Fat	20 – 30 g
Nutrient	100 g										
Energy	470 – 530 kcal										
Protein	9 – 13 g										
Carbohydrate	50 – 60 g										
Fat	20 – 30 g										

## 2.7 Infant Powdered Elemental Formula (300-450g/packaging)

2.7.1	This formula is a nutritionally complete hypoallergenic amino acid base elemental powder for feeding of term infants from birth until 12 months and can be used as a sole source of nutrition or supplementation by oral or tube feeding.	
2.7.2	It should be lactose free, gluten free and low residue.	
2.7.3	The nutrition facts in every 100 g of product is as below:	
	<b>Nutrient</b>	<b>100 g</b>
	Energy	450 – 500 kcal
	Protein	12 – 14 g
	Carbohydrate	50 – 60 g
	Fat	20 – 25 g
	Sodium	110 – 150 mg
	Potassium	400 – 550 mg
	Phosphorus	250 – 350 mg
	Calcium	400 – 500 mg

## 2.8 Infant Powdered Extensively Hydrolyzed Rice Based Formula (300-450g/packaging)

2.8.1	This formula is a nutritionally complete rice protein based extensively hydrolyzed powder for feeding of term infants from birth until 12 months and can be used as a sole source of nutrition or supplementation by oral or tube feeding.	
2.8.2	It should be lactose free and gluten free.	
2.8.3	The nutrition facts in every 100 g of product is as below:	
	<b>Nutrient</b>	<b>100 g</b>
	Energy	500 – 550 kcal
	Protein	12 – 14 g
	Carbohydrate	50 – 60 g
	Fat	20 – 30 g
	Sodium	150 – 250 mg
	Potassium	400 – 500 mg
	Phosphorus	200 – 300 mg
	Calcium	400 – 500 mg

## 2.9 Infant Powdered Partially Hydrolyzed Protein Formula (300-450g/packaging)

2.9.1	This formula is a nutritionally complete partially hydrolyzed protein for feeding of term infants from birth until 12 months and can be used as a sole source of nutrition or supplementation by oral or tube feeding.											
2.9.2	The nutrition facts in every 100 g of product is as below:											
	<table border="1"> <thead> <tr> <th data-bbox="312 638 852 678">Nutrient</th> <th data-bbox="860 638 1267 678">100 g</th> </tr> </thead> <tbody> <tr> <td data-bbox="312 680 852 721">Energy</td> <td data-bbox="860 680 1267 721">400 – 550 kcal</td> </tr> <tr> <td data-bbox="312 723 852 763">Protein</td> <td data-bbox="860 723 1267 763">8 – 14 g</td> </tr> <tr> <td data-bbox="312 766 852 806">Carbohydrate</td> <td data-bbox="860 766 1267 806">40 – 60 g</td> </tr> <tr> <td data-bbox="312 808 852 837">Fat</td> <td data-bbox="860 808 1267 837">20 – 30 g</td> </tr> </tbody> </table>	Nutrient	100 g	Energy	400 – 550 kcal	Protein	8 – 14 g	Carbohydrate	40 – 60 g	Fat	20 – 30 g	
Nutrient	100 g											
Energy	400 – 550 kcal											
Protein	8 – 14 g											
Carbohydrate	40 – 60 g											
Fat	20 – 30 g											

## 2.10 Follow-up Powdered Formula (300-450g/packaging)

2.10.1	Suitable for infant from 6 month to 3 years old.											
2.10.2	The nutrition facts in every 100 g of product is as below:											
	<table border="1"> <thead> <tr> <th data-bbox="312 1308 852 1348">Nutrient</th> <th data-bbox="860 1308 1267 1348">100 g</th> </tr> </thead> <tbody> <tr> <td data-bbox="312 1350 852 1391">Energy</td> <td data-bbox="860 1350 1267 1391">450 – 480 kcal</td> </tr> <tr> <td data-bbox="312 1393 852 1433">Protein</td> <td data-bbox="860 1393 1267 1433">13 – 15 g</td> </tr> <tr> <td data-bbox="312 1435 852 1476">Carbohydrate</td> <td data-bbox="860 1435 1267 1476">50 – 60 g</td> </tr> <tr> <td data-bbox="312 1478 852 1496">Fat</td> <td data-bbox="860 1478 1267 1496">20 – 22 g</td> </tr> </tbody> </table>	Nutrient	100 g	Energy	450 – 480 kcal	Protein	13 – 15 g	Carbohydrate	50 – 60 g	Fat	20 – 22 g	
Nutrient	100 g											
Energy	450 – 480 kcal											
Protein	13 – 15 g											
Carbohydrate	50 – 60 g											
Fat	20 – 22 g											

**2.11 Paediatric Powdered Complete Nutrition Formula (various flavour)  
(300-450g/packaging)**

2.11.1	It is in powder form providing complete nutrition. This product can be used as a sole source of nutrition for oral or tube feeding and also as nutritional supplement with or between meals for children aged 1 – 10 years old.	
2.11.2	Gluten free and lactose free.	
2.11.3	Available in various flavor	
2.11.4	The nutrition facts in every 100 g of product is as below:	
	<b>Nutrient</b>	<b>100 g</b>
	Energy	450 – 480 kcal
	Protein	13 – 15 g
	Carbohydrate	60 – 65 g
	Fat	17 – 20 g
	Sodium	300 – 320 mg
	Potassium	600 – 700 mg
	Phosphorus	270 – 300 mg
	Calcium	400 – 450 mg

**2.12 Paediatric Powdered Complete Semi-elemental Formula (300-450g/packaging)**

2.12.1	It is a peptide based formula, complete and balanced semi elemental nutrition. Contained 100% hydrolyzed whey protein for children 1-10 years old. This product can be used as a sole source of nutrition for oral or tube feeding and also as nutritional supplement with or between meals.	
2.12.2	Lactose free, gluten free, and low residue.	
2.12.3	Contained medium chain triglycerides (MCT).	
2.12.4	The nutrition facts in every 100 g of product is as below:	
	<b>Nutrient</b>	<b>100 g</b>
	Energy	450 – 480 kcal
	Protein	13 – 15 g
	Carbohydrate	60 – 65 g
	Fat	17 – 20 g



### 2.13 Human Milk Fortifier (0.7 – 2.0 g/sachet)

2.13.1	When added to human milk, meets the nutrient recommendations for the premature infant.																		
2.13.2	The nutrition facts in every 10 g of product is as below:																		
	<table border="1"><thead><tr><th><b>Nutrient</b></th><th><b>10 g</b></th></tr></thead><tbody><tr><td>Energy</td><td>35-40 kcal</td></tr><tr><td>Protein</td><td>2-3 g</td></tr><tr><td>Carbohydrate</td><td>4.5-6.5 g</td></tr><tr><td>Fat</td><td>0-3-1.2 g</td></tr><tr><td>Sodium</td><td>43-46 mg</td></tr><tr><td>Potassium</td><td>50-200 mg</td></tr><tr><td>Phosphorus</td><td>100-200 mg</td></tr><tr><td>Calcium</td><td>200-350 mg</td></tr></tbody></table>	<b>Nutrient</b>	<b>10 g</b>	Energy	35-40 kcal	Protein	2-3 g	Carbohydrate	4.5-6.5 g	Fat	0-3-1.2 g	Sodium	43-46 mg	Potassium	50-200 mg	Phosphorus	100-200 mg	Calcium	200-350 mg
<b>Nutrient</b>	<b>10 g</b>																		
Energy	35-40 kcal																		
Protein	2-3 g																		
Carbohydrate	4.5-6.5 g																		
Fat	0-3-1.2 g																		
Sodium	43-46 mg																		
Potassium	50-200 mg																		
Phosphorus	100-200 mg																		
Calcium	200-350 mg																		