

9 Blood and Nutrition

1. Anaemias		Primary Care	Acute/ Specialist Services
1.1 Hypoplastic, Haemolytic and Renal Anaemias			
Epoetins			
	Darbepoetin alfa (Aranesp [®])	⊕	✓
	Epoetin alfa (Eprex [®])	⊕	✓
	Epoetin beta (NeoRecormon [®])	⊕	✓
	Epoetin zeta (Retacrit [®])	⊕	✓
Comment: Epoetin for renal unit/shared care use only			
Hypoxia-inducible factor prolyl hydroxylase inhibitors			
	Roxadustat (Evrenzo [®])	⊕	✓
Comment: Roxadustat is approved for use in patients where darbopoetin/epoetin is considered inappropriate. Requires initiation by renal specialists. Once dose of roxadustat has been stabilised, can be continued in primary care. Note roxadustat dosing is 3 times weekly.			
1.1a Atypical Haemolytic Uraemic Syndrome and Paroxysmal Nocturnal Haemoglobinuria		Primary Care	Acute/ Specialist Services
No formulary choices			
Comment: Prescribed for Forth Valley patients via tertiary centre in NHS Lanarkshire			
1.1b Sickle-cell disease		Primary Care	Acute/ Specialist Services
No formulary choices			
Comment: Prescribed via a tertiary centre.			
1.2 Iron deficiency anaemia		Primary Care	Acute/ Specialist Services
Iron, injectable			
	Ferric carboxymaltose (Ferinject [®])		✓
	Ferric derisomaltose (Monofer [®])		✓
	Iron sucrose (Venofer [®])		✓
Comment: Iron sucrose (Venofer [®]) is restricted to use in patients undergoing haemodialysis			
Iron, oral			
	Ferrous fumarate (1 st line)	✓	✓
	Ferrous sulphate (2 nd line)	✓	✓
	Ferrous fumarate with folic acid (Pregaday [®])	✓	✓
	Ferrous gluconate	✓	✓
	Sodium feredetate oral solution (Sytron [®])	✓	✓

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9 Blood and Nutrition

1.3 Megaloblastic anaemia		Primary Care	Acute/ Specialist Services
Folates			
	Folic Acid	✓	✓
Vitamin B group			
	Cyanocobalamin tablets low dose 50mcg tablets can be prescribed in Primary Care in line with local guideline high dose 1mg tablets (Orobalin® 1mg tablets) - only to be prescribed when hydroxocobalamin inj. is unsuitable and if recommended by a haematologist	✓/⊕	✓
	Hydroxocobalamin	✓	✓
Comment: Refer to B12 and Folate: Practical Guide Giving vitamin B12 without further investigation, due to macrocytic anaemia, can prevent subsequent accurate diagnosis. Intrinsic factor antibody test cannot be interpreted in the presence of high levels of B12 (serum B12 levels are not relevant after B12 has been given). If there is clinical suspicion of sub-acute combined degeneration, treatment should be initiated immediately after generous samples for analysis are taken.			
2. Iron overload		Primary Care	Acute/ Specialist Services
Iron Chelators			
	Deferasirox	⊕	✓
3. Neutropenia and stem cell mobilization		Primary Care	Acute/ Specialist Services
3.1 Neutropenia			
Granulocyte-Colony Stimulating Factors			
	Filgrastim (restricted - haematology/oncology use only)		✓
3.2 Stem cell mobilisation		Primary Care	Acute/ Specialist Services
	Plerixafor (Mozobil®) (tertiary centre recommendation use only)		✓
4. Platelet disorders		Primary Care	Acute/ Specialist Services
4.1 Essential Thrombocythaemia			
	Anagrelide		✓
Comment: Anagrelide available in line with West of Scotland Cancer Network Protocols			

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9 Blood and Nutrition

4.2 Thrombocytopenias		Primary Care	Acute/ Specialist Services
No formulary choices			
4.2a Acquired Thrombotic Thrombocytopenic purpura		Primary Care	Acute/ Specialist Services
No formulary choices			
4.2b Immune Thrombocytopenia		Primary Care	Acute/ Specialist Services
	Eltrombopag (Revolade [®])		✓
Nutrition and Metabolic disorders		Primary Care	Acute/ Specialist Services
1.Fluids and Electrolyte Imbalances			
Bicarbonate			
	Sodium bicarbonate	⊕	✓
Potassium			
	Potassium chloride with potassium bicarbonate (Sando-K [®])	✓	✓
	Potassium chloride with glucose	✓	✓
	Potassium with sodium chloride		✓
Sodium Chloride			
	Sodium chloride (Slow Sodium [®])	✓	✓
	Sodium chloride with glucose		✓
Sugars			
	Glucose	✓	✓
Oral Rehydration Salts			
	Dioralyte [®]	✓	✓

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9 Blood and Nutrition

1.1 Calcium imbalance	Primary Care	Acute/ Specialist Services
1.1a Hypercalcaemia and Hypercalciuria	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
1.1b Hypocalcaemia	Primary Care	Acute/ Specialist Services
Calcium		
Calcium carbonate (Adcal [®] , Calcichew [®]) (1 st line)	✓	✓
Calcium Gluconate Injection		✓
Calcium carbonate with calcium lactate gluconate (Calvive [®])	✓	✓
1.2 Low blood volume	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
1.3 Magnesium imbalance	Primary Care	Acute/ Specialist Services
1.3a Hypomagnesaemia		
Magnesium		
Magnesium aspartate dehydrate (Magnaspartate [®])	✓	✓
Magnesium Glycerophosphate (Neomag [®])	✓	✓
Magnesium sulfate injection		✓
1.4 Phosphate imbalance	Primary Care	Acute/ Specialist Services
1.4a Hyperphosphataemia		
Calcium		
Calcium acetate (Phosex [®] , Renacet [®]) (1 st line)	⊕	✓
Sevelamer (2 nd line)	⊕	✓
Lanthanum	⊕	✓

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9 Blood and Nutrition

1.4b Hypophosphataemia	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
1.5 Potassium Imbalance	Primary Care	Acute/ Specialist Services
1.5a Hyperkalaemia		
Cation exchange compounds		
Calcium polystyrene sulphonate		✓
Sodium polystyrene sulphonate (Resonium A [®])		✓
Sodium zirconium cyclosilicate (Lokelma [®])	⊕	✓
Comment: Lokelma [®] to be prescribed in line with SMC restrictions . Lokelma [®] is also approved for use in the emergency hospital care setting for the treatment of acute, life threatening hyperkalaemia alongside standard care.		
1.5b Hypokalaemia	Primary Care	Acute/ Specialist Services
Potassium chloride tablets, oral solution (Kay-Cee-L syrup [®])	✓	✓
2. Metabolic disorders	Primary Care	Acute/ Specialist Services
Comment: Most of these metabolic disorders are managed in tertiary centres. To be prescribed in line with SMC restrictions. Normally restricted to hospital use only.		
2.1 Acute porphyrias	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
2.2 Amyloidosis	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
2.3 Carnitine deficiency	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		

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9 Blood and Nutrition

2.4 Cystinosis		Primary Care	Acute/ Specialist Services
2.4a Nephropathic cystinosis			
No formulary choices			
2.5 Fabry's disease		Primary Care	Acute/ Specialist Services
	Migalastat (Galafold [®])		✓
2.6 Gaucher's disease		Primary Care	Acute/ Specialist Services
No formulary choices			
2.7 Homocystinuria		Primary Care	Acute/ Specialist Services
	Betaine anhydrous oral powder (Cystadane [®])	⊕	✓
2.8 Hypophosphatasia		Primary Care	Acute/ Specialist Services
No formulary choices			
2.9 Leptin deficiency		Primary Care	Acute/ Specialist Services
No formulary choices			
2.10 Mucopolysaccharidosis		Primary Care	Acute/ Specialist Services
No formulary choices			
2.11 Niemann-Pick type C disease		Primary Care	Acute/ Specialist Services
No formulary choices			

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9 Blood and Nutrition

2.12 Pompe disease	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
2.13 Tyrosinaemia type 1	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
2.14 Urea cycle disorders	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
2.15 Wilson's disease	Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>		
3. Mineral and trace elements deficiencies	Primary Care	Acute/ Specialist Services
3.1 Selenium deficiency		
<i>No formulary choices</i>		
3.2 Zinc deficiency	Primary Care	Acute/ Specialist Services
Zinc		
	Zinc sulfate monohydrate effervescent tablets	✓
4. Nutrition	Primary Care	Acute/ Specialist Services
Intravenous		
<i>No formulary choices</i>		
5. Nutrition (Oral)	Primary Care	Acute/ Specialist Services
5.1 Special diets		
Coeliac Disease - Refer to NHS Forth Valley Gluten Free Formulary		
Dietetic recommendation – refer to ONS formulary , infant and paediatric dietetic formulary		

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5.1a Phenylketonuria		Primary Care	Acute/ Specialist Services
<i>No formulary choices</i>			
6. Vitamin deficiency		Primary Care	Acute/ Specialist Services
Multivitamins			
	Vitamins A and D	✓	✓
	Vitamins A, C and D (Healthy Start Vitamins®)		✓
Comment: Healthy Start Vitamins are supplied free of charge to pregnant women or breastfed babies under 12 months via their Midwife or Health visitor. For children between 12 months and 3 years old information on how to obtain supply in Forth Valley can be found here .			
Vitamin B group			
	Pyridoxine (Vit B6)	✓	✓
	Thiamine (Vit B1)	✓	✓
	Vitamins B and C (Pabrinex®)	✓	✓
	Forceval® capsules	✓	✓
Vitamin C			
	Ascorbic acid	✓	✓
Vitamin D and Analogues			
	Alfacalcidol	⊕	✓
	Colecalciferol with calcium carbonate (Adcal-D3® caplets, tablets, Adcal-D3® Dissolve effervescent tablets – patients unable to swallow caplets/tablets)	✓	✓
	Colecalciferol	✓	✓
	Ergocalciferol with calcium	✓	✓
Comment: Refer to Investigation and Treatment of Vitamin D Deficiency in Adults .			
Vitamin K			
	Phytomenadione capsules	✓	✓
	Phytomenadione inj. in adults	⊕	✓
	Phytomenadione inj. in paediatrics	✓	✓
	Menadiol sodium phosphate	⊕	✓

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