



The Greater Glasgow and Clyde

# Paediatric Formulary

January 2019

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# 1. GASTRO-INTESTINAL SYSTEM

## 1.1. DYSPEPSIA AND GASTRO-OESOPHAGEAL REFLUX DISEASE

### 1.1.1. Antacids and simeticone

#### **CO-MAGALDROX**

195/220 Suspension.

Brands include Maalox® and Mucogel®

### 1.1.2. Compound alginates preparations

#### **GAVISCON® INFANT**

1 dose is equivalent to half a dual sachet

#### **PEPTAC®**

Suspension

## 1.2. ANTISPASMODICS AND OTHER DRUGS ALTERING GUT MOTILITY

#### **DOMPERIDONE**

10mg tablets

10mg/5ml suspension

#### **HYOSCINE BUTYLBROMIDE (BUSCOPAN®)**

10mg tablets

20mg/1ml injection

#### **SIMETICONE (INFACOL®)**

40mg/ml liquid

#### **METOCLOPRAMIDE**

10mg tablets

5mg/5ml syrup

10mg/2ml injection

- Metoclopramide should only be prescribed for short-term use (up to 5 days)
- It should not be used in children below 1 year of age
- It should only be used in children over 1 year as second-choice treatment for prevention of delayed nausea and vomiting after chemotherapy and for post-operative nausea and vomiting

#### **PEPPERMINT WATER<sup>SP</sup>**

## 1.3. ANTISECRETORY DRUGS AND MUCOSAL PROTECTANTS

### 1.3.1. H<sub>2</sub>-Receptor antagonists

#### **RANITIDINE**

150mg tablets

75mg/5ml syrup

50mg/2ml injection

### 1.3.2. Selective antimuscarinics

#### **GLYCOPYRRONIUM**

400micrograms/ml oral solution

Restricted to specialist initiation for the symptomatic treatment of severe sialorrhoea (chronic pathological drooling) in children and adolescents aged 3 years and older with chronic neurological disorders.

### 1.3.3. Chelates and complexes

#### **SUCRALFATE**

1g/5ml suspension

1g tablets

### 1.3.4. Prostaglandin analogues

No preparations are included in the Formulary

### 1.3.5. Proton pump inhibitors

Care should be taken when administering proton pump inhibitors through feeding tubes. Discuss with your relevant pharmacy department.

#### **OMEPRAZOLE**

10mg capsules, 20mg capsules, dispersible tablets

40mg injection and infusion

#### **LANSOPRAZOLE**

15mg capsules, 30mg capsules, orodispersible tablets (FasTabs®)

#### Key to abbreviations

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
| P  | Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary |
| SP | Available as an unlicensed or special preparation   |

**1.4. ACUTE DIARRHOEA**

**1.4.1.** Adsorbents and bulk-forming drugs  
No preparations are included in the Formulary

**1.4.2.** Antimotility drugs

**LOPERAMIDE**

2mg capsules

1mg/5ml syrup

**1.5. CHRONIC BOWEL DISORDERS**

**1.5.1.** Aminosalicylates

**SULFASALAZINE**

500mg tablets

250mg/5ml suspension

**MESALAZINE**

Pentasa® 500mg modified-release tablets

Pentasa® 1g modified-release granules

Pentasa® 1g/100ml retention enema

Salofalk® 500mg modified-release granules

These preparations should be prescribed by brand name

**OLSALAZINE**

250mg capsules

**1.5.2.** Corticosteroids

**PREDNISOLONE**

Oral preparations: See 6.3.2

20mg in 100ml enema (Predenema®)

**1.5.3.** Drugs affecting the immune response

**ADALIMUMAB**

40mg/0.8ml pre-filled injection.

Restricted to specialist use in paediatric gastroenterology for the treatment of severe active Crohn's disease in paediatric patients (6 to 17 years of age) who have had an inadequate response to conventional therapy including primary nutrition therapy, a corticosteroid, and an immunomodulator, or who are intolerant to or have contraindications for such therapies.

**INFLIXIMAB**

100mg injection for infusion

Restricted to use in:

- severe refractory or fistulating Crohn's disease where therapy with other immunomodulating drugs has failed or is not tolerated.
- severely active ulcerative colitis in children and adolescents aged 6 to 17 years who have had an inadequate response to conventional therapy including corticosteroids and 6-mercaptopurine or azathioprine, or who are intolerant to or have medical contraindications for such therapies. It is restricted to specialist use as an alternative to ciclosporin in patients with acute, severe paediatric ulcerative colitis (rescue therapy) who are steroid refractory.

**METHOTREXATE**

2.5mg, 10mg tablets

5mg/2ml, 1000mg/10ml, 2000mg injection

When dispensing is to be carried out in primary care, the 2.5mg strength tablet should be used where possible.

**AZATHIOPRINE**

See section 8.2.1

**CICLOSPORIN**

See section 8.2.1

**1.6. LAXATIVES**

**1.6.1.** Bulk-forming laxatives

No preparations are included in the Formulary

**1.6.2.** Stimulant laxatives

**BISACODYL**

5mg tablets

5mg, 10mg suppositories

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**DOCUSATE SODIUM**

12.5mg/5ml paediatric syrup

50mg/5ml syrup

**SENNA**

7.5mg tablets

7.5mg/5ml syrup

**GLYCEROL (GLYCERIN)**

1g, 2g, 4g suppositories

**SODIUM PICOSULFATE**

5mg/5ml elixir

## 1.6.3. Faecal softeners

**ARACHIS OIL ENEMA**

130ml enema

## 1.6.4. Osmotic laxatives

**LACTULOSE**

Liquid

**LAXIDO PAEDIATRIC®**

Sachets

Licensed for children aged 2 to 11 years.

**LAXIDO ORANGE®**

Sachets

Licensed for children aged 12 years and above.

**MOVICOL® PAEDIATRIC**

Sachets

**PHOSPHATE ENEMA®**

128ml enema

**MICROLAX MICRO-ENEMA®**

5ml enema

## 1.6.5. Bowel cleansing solutions

**KLEAN-PREP®**

Sachets

**SODIUM PICOSULFATE**

Picolax® Sachets

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**1.7. LOCAL PREPARATIONS FOR ANAL AND RECTAL DISORDERS**

## 1.7.1. Soothing anal and rectal preparations

**ANUSOL®**

Cream and suppositories

## 1.7.2. Compound anal and rectal preparations with corticosteroids

No preparations are included in the Formulary

## 1.7.3. Rectal sclerosants

**OILY PHENOL INJECTION BP**

## 1.7.4. Management of anal fissures

No preparations are included in the Formulary

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**1.8. STOMA AND ENTERAL FEEDING TUBES**

See British National Formulary for Children

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**1.9. DRUGS AFFECTING INTESTINAL SECRETIONS****1.9.1. Drugs affecting biliary composition and flow****URSODEOXYCHOLIC ACID<sup>O</sup>**

150mg tablets

250mg capsules

250mg/5ml suspension

**1.9.2. Bile acid sequestrants****COLESTYRAMINE (CHOLESTYRAMINE)**

4g sachets

**1.9.3. Aprotinin**

See section 2.11

**1.9.4. Pancreatin****CREON<sup>®</sup>**

10,000 unit and 25,000 unit capsules

**CREON<sup>®</sup> MICRO**

Restricted to use in young cystic fibrosis sufferers who are unable to swallow capsules.

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**1.10. DRUGS FOR SHORT BOWEL SYNDROME****TEDUGLUTIDE**

Subcutaneous injection

Restricted to specialist use only. Teduglutide should only be initiated in paediatric patients aged 1 to 17 years.

## 2. CARDIOVASCULAR SYSTEM

### 2.1. POSITIVE INOTROPIC DRUGS

#### 2.1.1. Cardiac glycosides

##### **DIGOXIN**

62.5microgram tablets  
250microgram/5ml elixir  
500microgram/2ml injection

#### 2.1.2. Phosphodiesterase inhibitors

##### **ENOXIMONE<sup>O</sup>**

100mg/20ml injection

##### **MILRINONE<sup>O</sup>**

10mg/10ml injection

### 2.2. DIURETICS

#### 2.2.1. Thiazides and related diuretics

##### **CHLOROTHIAZIDE<sup>SP</sup>**

250mg/5ml suspension

##### **METOLAZONE**

5mg tablets

#### 2.2.2. Loop diuretics

##### **FUROSEMIDE (FRUSEMIDE)**

20mg, 40mg tablets  
4mg/ml liquid  
20mg/2ml, 50mg/5ml and 250mg/25ml injection

#### 2.2.3. Potassium-sparing diuretics and aldosterone antagonists

##### **AMILORIDE**

5mg tablets  
5mg/5ml oral solution

##### **POTASSIUM CANRENOATE<sup>SP</sup>**

200mg injection

##### **SPIRONOLACTONE**

25mg tablets  
50mg/5ml suspension<sup>SP</sup>

#### 2.2.4. Potassium-sparing diuretics with other diuretics

No preparations are included in the Formulary

#### 2.2.5. Osmotic diuretics

##### **MANNITOL**

10% and 20% infusion (500ml)

#### 2.2.6. Mercurial diuretics

No preparations are included in the Formulary

#### 2.2.7. carbonic anhydrase inhibitors

##### **ACETAZOLAMIDE<sup>O</sup>**

250mg tablets  
Though this is a weak diuretic, it is more often used for glaucoma (see 11.6), epilepsy and raised intracranial pressure

#### 2.2.8. Diuretics with potassium

No preparations are included in the Formulary

### 2.3. ANTI-ARRHYTHMIC DRUGS

#### 2.3.1. Management of arrhythmias

#### 2.3.2. Drugs for arrhythmias

##### **ADENOSINE**

6mg/2ml injection

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**AMIODARONE HYDROCHLORIDE**

150mg/3ml injection

**FLECAINIDE ACETATE**

100mg tablets

150mg/15ml injection

25mg/5ml liquid<sup>SP</sup>**2.4. BETA-ADRENOCEPTOR BLOCKING DRUGS****ATENOLOL**

25mg, 50mg, 100mg tablets

25mg/5ml syrup

**CARVEDILOL**

3.125mg tablets

**ESMOLOL**

100mg/10ml injection

**LABETALOL**

100mg/20ml injection

**PROPRANOLOL**

10mg, 40mg tablets

5mg/5ml syrup

1mg/1ml injection

**NADALOL<sup>P</sup>**

80mg tablets

30mg/5ml solution<sup>SP</sup>**2.5. HYPERTENSION****2.5.1. Vasodilator antihypertensive drugs and pulmonary hypertension****2.5.1.1. Vasodilator antihypertensives****DIAZOXIDE**

50mg tablets

100mg/5ml suspension<sup>SP</sup>

300mg/20ml injection

**MINOXIDIL**

2.5mg tablets

**SODIUM NITROPRUSSIDE**50mg/5ml injection<sup>SP</sup>**2.5.1.2. Pulmonary hypertension****BOSENTAN**

62.5mg, 125mg tablets

Restricted to initiation and prescribing by specialists in the Scottish Pulmonary Vascular Unit or similar specialists (e.g. on advice from Great Ormond Street Hospital).

**EPOPROSTENOL**

500microgram infusion

**SILDENAFIL**25mg tablets<sup>O</sup>

10mg/ml powder for oral solution\*

2mg/ml suspension<sup>SP</sup>0.8mg/ml injection<sup>O</sup>

Restricted to specialist use only.

Sildenafil injection is further restricted to specialist use in patients with clinically and echo-confirmed pulmonary arterial hypertension that can not be managed by inhaled nitric oxide (iNO) or cannot be weaned from iNO or ECMO, and when oral formulations of sildenafil are not tolerated or inappropriate.

\*Please note, this new licensed preparation is a different strength to the unlicensed suspension which has been used previously.

**2.5.2. Centrally acting antihypertensive drugs****CLONIDINE**100micrograms/5ml suspension<sup>SP</sup>

150microgram/ml injection

25microgram, 100microgram tablets

Used for several other unlicensed indications, such as ADHD, tics and Gilles de Tourette syndrome

*Key to abbreviations*

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P Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary

SP Available as an unlicensed or special preparation



2.5.3. Adrenergic neurone blocking drugs  
No preparations are included in the Formulary

2.5.4. Alpha-adrenoceptor blocking drugs  
**DOXAZOSIN**  
1mg, 2mg tablets  
**PHENOXYBENZAMINE HYDROCHLORIDE**  
10mg capsules  
100mg/2ml injection  
**PHENTOLAMINE MESILATE**  
10mg/1ml injection

2.5.5. Drugs affecting the renin-angiotensin system

2.5.5.1. Angiotensin-converting enzyme inhibitors

**CAPTAPRIL**  
12.5mg, 25mg tablets  
5mg/ml suspension<sup>SP</sup>  
**ENALAPRIL MALEATE**  
2.5mg, 5mg tablets  
**LISINOPRIL**  
2.5mg tablets

2.5.5.2. Angiotensin-II receptor antagonists

**LOSARTAN**  
25mg tablets  
2.5mg/ml suspension

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2.6. **NITRATES, CALCIUM-CHANNEL BLOCKERS, AND OTHER ANTIANGINAL DRUGS**

2.6.1. Nitrates

**GLYCERYL TRINITRATE**  
50mg/50ml injection

2.6.2. Calcium-channel blockers

**AMLODIPINE**  
5mg tablets  
5mg/5ml solution<sup>SP</sup>  
**NIFEDIPINE**  
5mg, 10mg capsules  
20mg/ml drops<sup>SP</sup>  
10mg, 20mg modified-release tablets  
Modified-release preparations should be prescribing by brand name

2.6.3. Other antianginal drugs  
No preparations are included in the Formulary

2.6.4. Peripheral vasodilators and related drugs  
No preparations are included in the Formulary

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2.7. **SYMPATHOMIMETICS**

2.7.1. Inotropic sympathomimetics

**DOBUTAMINE**  
250mg/20ml injection  
**DOPAMINE**  
200mg/5ml injection  
**ISOPRENALINE**  
1mg/ml injection<sup>SP</sup>

2.7.2. Vasoconstrictor sympathomimetics

**EPHEDRINE**  
30mg/ml injection

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**NORADRENALINE (NOREPINEPHRINE)**

2mg/ml acid tartrate injection (equivalent to 1mg/ml base)

**PHENYLEPHRINE HYDROCHLORIDE**

10mg/ml injection

## 2.7.3. Cardiopulmonary resuscitation

**ADRENALINE (EPINEPHRINE)**

1 in 10,000 pre-filled syringe (10ml)

1 in 1000 injection (1ml)

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2.8. **ANTICOAGULANTS AND PROTAMINE**

## 2.8.1. Parenteral anticoagulants

**ENOXAPARIN**

20mg, 40mg, 60mg, 80mg, 100mg pre-filled syringe

300mg/3ml multidose vial

**HEPARINISED SALINE**

50units/5ml, 200units/2ml

500unit/500ml infusion<sup>SP</sup>**HEPARIN SODIUM**

1000units/ml (5ml) injection

**HEPARIN (PRESERVATIVE FREE)**

1000units/ml (5ml) injection

## 2.8.2. Oral anticoagulants

**WARFARIN**

500microgram, 1mg, 3mg, 5mg tablets

## 2.8.3. Protamine sulphate

**PROTAMINE SULPHATE**

50mg/5ml injection

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2.9. **ANTIPLATELET DRUGS****ASPIRIN**

75mg dispersible tablets

**CLOPIDOGREL**

75mg tablets

---

2.10. **MYOCARDIAL INFARCTION AND FIBRINOLYSIS**

## 2.10.1. Management of myocardial infarction

No preparations are included in the Formulary

## 2.10.2. Fibrinolytic drugs

**ALTEPLASE**

10mg, 20mg injection

**UROKINASE**

25,000unit injection

---

2.11. **ANTIFIBRINOLYTIC DRUGS AND HAEMOSTATICS****APROTININ<sup>SP</sup>**

10,000units/ml (50ml) injection.

Unlicensed preparation restricted to use in cardiac surgery only

**TRANEXAMIC ACID**

500mg tablets

500mg/5ml injection

- 
- 2.12. LIPID-REGULATING DRUGS**  
**COLESTYRAMINE (CHOLESTYRAMINE)**  
4g sachet  
**ATORVASTATIN**  
10mg, 20mg tablet.  
**SIMVASTATIN<sup>O</sup>**  
10mg, 20mg, 40mg tablet.
- 

- 2.13. LOCAL SCLEROSANTS**  
**SODIUM TETRADECYL SULPHATE**  
3% injection (2ml)
- 

- 2.14. DRUGS AFFECTING THE DUCTUS ARTERIOSUS**  
**IBUPROFEN**  
5mg/ml (2ml) injection  
Maintenance of patency  
**DINOPROSTONE**  
1mg/ml injection (0.75ml)

### 3. RESPIRATORY SYSTEM

#### 3.1. BRONCHODILATORS

##### 3.1.1. Adrenoceptor agonists

###### **SALBUTAMOL**

100microgram/puff metered dose inhaler (MDI)  
200microgram/puff dry powder inhaler (Accuhaler®)  
2.5mg, 5mg nebules  
2mg/5ml syrup

###### **SALMETEROL**

25microgram/puff metered dose inhaler (MDI)  
50microgram/puff dry powder inhaler (Accuhaler®)

###### **TERBUTALINE**

500microgram/puff dry powder inhaler (Turbohaler®)

##### 3.1.2. Antimuscarinic bronchodilators

###### **IPRATROPIUM BROMIDE**

20microgram/puff metered dose inhaler (MDI)  
250microgram/ml (2ml) nebuliser solution

###### **TIOTOPIUM (SPIRIVA® RESPIMAT®)**

2.5microgram solution for inhalation

Restricted to use as an add-on maintenance bronchodilator in children aged 6 years and older with severe asthma who have experienced one or more severe asthma exacerbations in the preceding year.

##### 3.1.3. Theophylline

###### **AMINOPHYLLINE**

250mg/10ml injection

###### **THEOPHYLLINE**

60mg, 125mg Slow-release capsules (Slo-phyllin®)

##### 3.1.4. Compound bronchodilator preparations

No preparations are included in the Formulary

##### 3.1.5. Peak flow meters, inhaler devices, and nebulisers

###### **PEAK FLOW METERS**

Mini-Wright® (standard/low) range

###### **AEROCHAMBER®**

Infant device with mask (orange)  
Child device with mask (yellow)

###### **NEBUHALER®**

###### **VOLUMATIC®**

#### 3.2. CORTICOSTEROIDS

###### **BECLOMETASONE DIPROPIONATE**

50microgram/puff, 100microgram/puff metered dose inhaler (MDI)

Different brands of beclometasone CFC-free inhalers are not equipotent and should be prescribed by brand name for safety reasons. The preferred brand is Clenil Modulite®

###### **BUDESONIDE**

50microgram/puff, 200microgram/puff metered dose inhaler (MDI)

100, 200microgram/puff dry powder inhaler (Turbohaler®)

100mcg, 200mcg, 400mcg dry powder inhaler (Easyhaler®)

500microgram/2ml, 1mg/2ml nebuliser solution (Respules®)

Budesonide nebuliser solution is restricted only to hospital inpatient treatment of croup

###### **BUDESONIDE AND FORMOTEROL (SYMBICORT®)**

100/6, 200/6, 400/12 dry powder inhaler (Turbohaler®)

100/6, 200/6 inhalation powder (Symbicort® SMART®)

###### **FLUTICASONE PROPIONATE**

50microgram/puff, 125microgram/puff, 250microgram/puff metered dose inhaler (MDI)

50microgram/puff dry powder inhaler (Accuhaler®)

###### **FLUTICASONE AND SALMETEROL (SERETIDE®)**

50microgram/puff, 125microgram/puff, 250microgram/puff metered dose inhaler (MDI)

100microgram/puff, 250microgram/puff, 500microgram/puff dry powder inhaler (Accuhaler®)

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**3.3. CROMOGLICATE AND RELATED THERAPY AND LEUKOTRIENE RECEPTOR ANTAGONISTS**

3.3.1. Cromoglicate and related therapy  
No preparations are included in the Formulary

3.3.2. Leukotriene receptor antagonists  
**MONTELUKAST**  
10mg tablets  
4mg sachets  
4mg, 5mg chewable tablets  
Use for seasonal allergic rhinitis is non-Formulary

**3.4. ANTIHISTAMINES, IMMUNOTHERAPY, AND ALLERGIC EMERGENCIES**

3.4.1. Antihistamines  
Non-sedating antihistamines  
**CETIRIZINE**  
10mg tablets  
5mg/5ml oral solution  
**LORATADINE**  
10mg tablets  
Sedating antihistamines  
**CHLORPHENAMINE (CHLORPHENIRAMINE)**  
4mg tablets  
2mg/5ml syrup  
10mg/ml injection  
**HYDROXYZINE HYDROCHLORIDE**  
10mg tablets  
10mg/5ml syrup  
**PROMETHAZINE HYDROCHLORIDE**  
5mg/5ml syrup  
25mg/1ml, 50mg/2ml injection

3.4.2. Allergen immunotherapy  
No preparations are included in the Formulary

3.4.3. Allergic emergencies  
**ADRENALINE (EPINEPHRINE)**  
1 in 10,000 injection  
150microgram, 300microgram auto injector (e.g. Epipen®, Anapen®, Jext®)  
**ICATIBANT ACETATE**  
30mg pre-filled syringe  
Symptomatic treatment of acute attacks of hereditary angioedema (HAE) in adolescents and children ≥2 years with C1-esterase-inhibitor deficiency is restricted to specialist use only.

**3.5. RESPIRATORY STIMULANTS AND PULMONARY SURFACTANTS**

3.5.1. Respiratory stimulants  
**CAFFEINE CITRATE**  
10mg/ml injection  
10mg/ml oral solution<sup>SP</sup>  
20mg/ml infusion  
20mg/ml oral solution  
Restricted to specialist use.  
**DOXAPRAM**  
100mg/5ml injection

3.5.2. Pulmonary surfactants  
**PORACTANT ALFA (CUROSURF®)**  
120mg/1.5ml and 240mg/3ml suspension for administration by endotracheal tube.  
Restricted to specialist use in neonatal respiratory distress by consultant paediatricians and specialist registrars.

- 
- 3.6. OXYGEN**  
**OXYGEN**  
 Acute oxygen therapy must be prescribed on drug Kardex indicating flow and concentration  
 Assessment and prescribing of long-term home oxygen therapy is restricted to respiratory physicians. National systems are in place to order oxygen equipment. Please contact respiratory team or pharmacy for further information.  
**WATER FOR INHALATION**  
 500ml
- 
- 3.7. MUCOLYTICS**  
**DORNASE ALFA (PULMOZYME®)**  
 2500unit/2.5ml nebuliser solution.  
 Specialist initiation only.
- 
- 3.8. AROMATIC INHALATIONS**  
**MENTHOL CRYSTALS**
- 
- 3.9. COUGH PREPARATIONS**  
**3.9.1. Cough suppressants**  
 Cough may be a symptom of underlying disease which should be addressed before prescribing cough suppressants. See MHRA/CHM advice March 2008 and February 2009 on use of over the counter cough and cold remedies. See MHRA/CHM advice October 2010 on use of codeine-containing preparations.
- 3.9.2. Expectorant and demulcent cough preparations**  
**SIMPLE LINCTUS (CITRIC ACID)**  
**SIMPLE LINCTUS PAEDIATRIC (CITRIC ACID)**
- 
- 3.10. SYSTEMIC NASAL DECONGESTANTS**  
**PSEUDOEPHEDRINE**  
 30mg/5ml elixir  
 Restricted to patients 6 years of age and older
-

## 4. CENTRAL NERVOUS SYSTEM

### 4.1. HYPNOTICS AND ANXIOLYTICS

#### MELATONIN

Generic 3mg immediate release capsules are available, are listed in the Scottish Drug Tariff part 7U (unlicensed), and are the preferred melatonin preparation.

Melatonin is available as a licensed modified release tablet (Circadin®). Oral solution is unlicensed in the UK but manufactured as a 'special' by various manufacturers.

#### 4.1.1. Hypnotics

##### PROMETHAZINE HYDROCHLORIDE

5mg/5ml syrup (also see section 3.4.1)

##### CHLORAL HYDRATE

500mg/5ml oral solution<sup>SP</sup>

#### 4.1.2. Anxiolytics

##### DIAZEPAM

2mg, 5mg tablets

2mg/5ml suspension

2.5mg, 5mg, 10mg rectal tubes

(Also see section 4.8.2, 10.2.2 and 15.1.4)

#### 4.1.3. Barbiturates

No preparations are included in the Formulary

### 4.2. DRUGS USED IN PSYCHOSES AND RELATED DISORDERS

The prescription of antipsychotic medicines in children should only be done under the direction of a consultant psychiatrist experienced in treating children.

#### 4.2.1. Antipsychotic drugs

##### ARIPIRAZOLE

5mg, 10mg tablets

10mg orodispersible tablets

1mg/ml oral solution

Treatment for up to 12 weeks of moderate to severe manic episodes in Bipolar Disorder I in adolescents aged 13 years and older is restricted to specialist initiation and management under the supervision of a child/ adolescent psychiatrist.

##### CHLORPROMAZINE HYDROCHLORIDE

25mg tablets

25mg/5ml oral solution

50mg/2ml injection

##### LEVOMEPRMAZINE (METHOTRIMEPRAZINE)

25mg/ml injection

Not used for psychoses but used for palliative care and other indications

##### OLANZAPINE

2.5mg, 5mg, 10mg tablets

5mg, 10mg orodispersible tablets

##### PROMETHAZINE

10mg tablets and 5mg/5ml suspension

##### RISPERIDONE

1mg, 3mg tablets and 1mg/ml liquid

##### QUETIAPINE

25mg, 100mg, 200mg tablets

##### THIORIDAZINE

25mg/5ml syrup

#### 4.2.2. Antipsychotic depot injections

No preparations are included in the Formulary

#### 4.2.3. Antimanic drugs

No preparations are included in the Formulary

**4.3. ANTIDEPRESSANT DRUGS****4.3.1. Tricyclic antidepressant drugs**

No preparations are included in the Formulary

**4.3.2. Monoamine-oxidase inhibitors**

No preparations are included in the Formulary

**4.3.3. Selective serotonin re-uptake inhibitors**

These preparations should only be initiated after full consideration of the risks versus the benefits. Current best evidence indicates that fluoxetine may be the preferred first choice as it is licensed in children aged 8 years and above with moderate to severe major depressive episodes (see product literature for full information).

**FLUOXETINE**

20mg capsules

**CITALOPRAM**

20mg tablets

**SERTRALINE**

50mg, 100mg tablets

**4.3.4. other antidepressant drugs**

No preparations are included in the Formulary

**4.4. CNS STIMULANTS AND OTHER DRUGS FOR ATTENTION DEFICIT HYPERACTIVITY DISORDER****ATOMOXETINE**

10mg, 18mg, 25mg, 40mg capsules and 4mg/ml oral solution

Restricted to use in children over 6 years and adolescents who do not respond to stimulants or in whom stimulants are contraindicated or not tolerated. The oral solution is restricted to patients who are unable to swallow capsules.

**DEXAMFETAMINE**

5mg tablets

**GUANFACINE**

1mg, 2mg, 3mg, 4mg prolonged release tablets

Restricted to specialist initiation for the treatment of attention deficit hyperactivity disorder (ADHD) in children and adolescents 6 to 17 years old for whom stimulants are not suitable, not tolerated or have been shown to be ineffective. Treatment must be used as part of a comprehensive ADHD treatment programme, typically including psychological, educational and social measures.

**LISDEXAMFETAMINE**

20mg, 30mg, 40mg, 50mg, 60mg 70mg capsules

Restricted to specialist initiation for children aged 6 years of age and over as part of a comprehensive treatment programme for attention deficit/hyperactivity disorder (ADHD).

**METHYLPHENIDATE**

5mg, 10mg tablets

Modified-release tablets (see BNF for Children and restrictions below)

Restricted to initiation by child or adolescent psychiatrists or paediatricians with expertise in ADHD.

Modified-release preparations are restricted to second-line therapy where there is evidence of compliance problems or where clear evidence that administration of a midday dose is problematic or inappropriate

Modified-release preparations should be prescribed by brand name. Xaggitin XL® is the preferred brand of sustained-release methylphenidate.

**4.5. DRUGS USED IN THE TREATMENT OF OBESITY**

No preparations are included in the Formulary

**4.6. DRUGS USED IN NAUSEA AND VERTIGO****APREPITANT**

80mg, 125mg hard capsules

125mg powder for oral suspension

Restricted to specialist use only in accordance with local protocol.

**CYCLIZINE**

50mg tablets

50mg/ml injection

*Key to abbreviations*

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
| P  | Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary |
| SP | Available as an unlicensed or special preparation   |



**DOMPERIDONE**

10mg tablets  
5mg/5ml suspension

**FOSAPREPITANT (IVEMEND®)**

150mg infusion  
Restricted to specialist use only

**HYOSCINE HYDROBROMIDE**

300microgram tablets  
1mg/72hours patch

**LEVOMEPRMAZINE**

6mg <sup>SP</sup>, 25mg tablets  
25mg/ml injection

**LORAZEPAM**

4mg/ml injection

**METOCLOPRAMIDE**

10mg tablets  
5mg/5ml syrup  
10mg/2ml injection

**ONDANSETRON**

4mg tablets  
4mg/5ml SF syrup  
4mg/2ml, 8mg/4ml injection  
4mg, 8mg orodispersible films (Setofilm®), which are restricted to patients with an enhanced risk of aspiration or who experience difficulties in swallowing.

**PALONOSETRON**

250 microgram injection.  
Restricted to specialist use for the prevention of acute nausea and vomiting associated with highly emetogenic cancer chemotherapy and prevention of nausea and vomiting associated with moderately emetogenic cancer chemotherapy, in paediatric patients 1 month of age and older.

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**4.7. ANALGESICS****4.7.1. Non-opioid analgesics**

For non-steroidal anti-inflammatory medicines, see section 10.1.1

**PARACETAMOL**

500mg tablets  
500mg soluble tablets  
120mg/5ml sugar-free suspension,  
250mg/5ml sugar-free suspension (not commonly used in hospitals)  
60mg, 120mg, 240mg, 500mg suppositories  
10mg/ml infusion (restricted to hospital use only in accordance with local protocol)

**4.7.2. Opioid analgesics****DIAMORPHINE**

5mg, 10mg, 30mg, 100mg, 500mg injection

**DIHYDROCODEINE**

30mg tablets  
10mg/5ml elixir

**FENTANYL**

100microgram/2ml  
500microgram/10ml injection  
12microgram/hour, 25microgram/hour, 50microgram/hour, 75microgram/hour and 100microgram/hour patch

**METHADONE**

10mg/ml injection<sup>SP</sup>  
Restricted to initiation by the Pain Team

**MORPHINE SULPHATE**

10mg, 20mg tablets (Sevredol®)  
10mg, 30mg, 60mg, 100mg SR tablets (MST®)  
10mg/5ml, 100microgram/ml<sup>SP</sup>, 200microgram/ml<sup>SP</sup> oral solution  
20mg, 30mg, 60mg, 100mg suspension (MST® Continus)  
10mg/1ml, 60mg/2ml injection, 100mg/50ml injection

- 4.7.3. Neuropathic pain  
**AMITRIPTYLINE<sup>O</sup>**  
 10mg, 25mg tablets  
 25mg/5ml oral solution  
 Restricted to initiation on the advice of the Pain Team or on the advice of neurology.
- CARBAMAZEPINE**  
 See section 4.8.1  
 Restricted to initiation on the advice of the Pain Team
- GABAPENTIN**  
 See section 4.8.1  
 Restricted to initiation on the advice of the Pain Team

- 4.7.4. Antimigraine drugs  
**PIZOTIFEN**  
 500microgram tablets  
 250microgram/5ml elixir
- SUMATRIPTAN**  
 50mg tablets

## 4.8. ANTIEPILEPTICS

### 4.8.1. Control of epilepsy

Where it is essential in all cases to maintain a patient on a specific brand or manufacturer's preparation, this is indicated in the relevant Formulary entry. For all other antiepileptic medicines, when being used to treat epilepsy, there is no requirement to be maintained on a specific brand or manufacturer's preparation, unless the prescriber considers, following a discussion with each individual patient at the next review, that an individual patient's circumstances require the need for continuity of supply of a particular specific manufacturer or brand (e.g. seizure risk, treatment history or other concerns, such as patient anxiety, risk of confusion or dosing errors).

#### **ACETAZOLAMIDE**

250mg tablets. See section 2.2.7 and 11.6 for other uses

#### **BRIVARACETAM (BRIVIACT<sup>®</sup>)**

Restricted to specialist initiation for adjunctive therapy in children from age 4 years with refractory epilepsy for the treatment of partial-onset seizures with or without secondary generalisation..

#### **CARBAMAZEPINE**

Note: Patients should be maintained on a specific brand or manufacturer's preparation and prescribing by brand name should be followed where possible.

100mg tablets

200mg MR tablets

100mg/5ml suspension

125mg, 250mg suppositories

#### **CLOBAZAM**

10mg tablets

#### **CLONAZEPAM**

500microgram, 2mg tablets

#### **ETHOSUXIMIDE**

25mg capsules

250mg/5ml syrup

#### **EVEROLIMUS**

2mg, 3mg, 5mg dispersible tablets are accepted for use as adjunctive treatment of patients aged  $\geq 2$  years whose refractory partial-onset seizures, with or without secondary generalisation, are associated with tuberous sclerosis complex (TSC). Its use is restricted to specialist use only.

#### **GABAPENTIN**

100mg, 300mg capsules

#### **LACOSAMIDE**

50mg, 100mg tablets

Restricted to adjunctive use in patients with refractory epilepsy.

Use as monotherapy for partial-onset seizures with or without secondary generalisation in adolescents and children from 4 years of age is not recommended by SMC and remains non-Formulary.

#### **LAMOTRIGINE**

25mg, 50mg, 100mg tablets

5mg, 25mg dispersible tablets

**LEVETIRACETAM**

250mg tablets  
 100mg/ml oral solution  
 100mg/ml intravenous infusion (hospital use only)

**NITRAZEPAM**

2.5mg/5ml suspension

**OXCARBAZEPINE**

150mg tablets  
 300mg/5ml suspension<sup>P</sup>

**PERAMPANEL**

2mg, 4mg, 6mg, 8mg, 10mg, 12mg tablets

Use as adjunctive treatment of partial-onset seizures with or without secondarily generalised seizures in patients with epilepsy aged 12 years and older is restricted to initiation by specialists in epilepsy

**PHENOBARBITONE**

Note: Patients should be maintained on a specific brand or manufacturer's preparation and prescribing by brand name should be followed where possible

15mg, 30mg, 60mg tablets  
 50mg/5ml oral solution<sup>SP</sup> (alcohol and sugar-free)  
 15mg/ml, 30mg/ml, 60mg/ml injection

**PHENYTOIN**

Note: Patients should be maintained on a specific brand or manufacturer's preparation and prescribing by brand name should be followed where possible

25mg, 50mg, 100mg capsules (Epanutin®)  
 50mg chewable tablets  
 30mg/5ml suspension  
 250mg/5ml injection

**PRIDOXAL-5-PHOSPHATE<sup>SP</sup>**

50mg tablets

**RUFINAMIDE**

100mg tablets

Rufinamide is restricted to use in patients who have failed treatment with or are intolerant of alternative traditional antiepileptic drugs

**SODIUM VALPROATE**

200mg, 500mg EC tablets  
 100mg crushable tablets  
 200mg, 500mg MR tablets (Epilim® Chrono)  
 200mg/5ml sugar-free liquid  
 50mg MR granules (Epilim® Chronosphere)  
 400mg injection

**STIRIPENTOL**

250mg, 500mg hard capsule  
 250mg, 500mg powder for oral suspension in sachet  
 Restricted to specialist initiation

**TOPIRAMATE**

25mg tablets  
 15mg, 25mg sprinkle capsules

**TRIPLE BROMIDE<sup>SP</sup>**

1200mg/5ml solution

**VIGABATRIN**

500mg tablets  
 500mg sachets

**ZONISAMIDE**

25mg, 50mg, 100mg capsules

Restricted to initiation on the advice of specialists (paediatric neurologists or paediatricians with an expertise in epilepsy).

## 4.8.2. Drugs used in status epilepticus

**CLONAZEPAM**

1mg/1ml injection

**DIAZEPAM**

2.5mg, 5mg, 10mg rectal tubes  
 10mg/2ml injection (emulsion)

**LORAZEPAM**

4mg/1ml injection (other strengths may be in use)

## Key to abbreviations

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
| P  | Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary |
| SP | Available as an unlicensed or special preparation   |

**MIDAZOLAM**

5mg/ml oromucosal solution available in 2.5mg, 5mg, 7.5mg and 10mg pre-filled oral syringe.

10mg/1ml oromucosal solution prefilled syringe

**PARALDEHYDE**50% rectal solution in olive oil<sup>SP</sup>**PHENYTOIN**

250mg/5ml injection

- 4.8.3. Febrile convulsions  
See BNF for Children

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**4.9. DRUGS USED IN DYSTONIAS AND RELATED DISORDERS**

- 4.9.1. Dopaminergic drugs used in dystonias

**CO-CARELDOPA<sup>O</sup>**

12.5/50 tablets

- 4.9.2. Antimuscarinic drugs used in dystonias

**PROCYCLIDINE**

5mg tablets

10mg/2ml injection

- 4.9.3. drugs used in essential tremor, chorea, tics, and related disorders

**BOTULINUM TOXIN A**

50unit, 500unit injection

Prescribe by brand name, as indications and bioequivalence may vary between preparations

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**4.10. DRUGS USED IN SUBSTANCE DEPENDENCE**

No preparations are included in the Formulary

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**4.11. DRUGS FOR DEMENTIA**

No preparations are included in the Formulary

## 5. INFECTIONS

### 5.1. ANTIBACTERIAL DRUGS

#### 5.1.1. Penicillins

##### **AMOXICILLIN**

250mg, 500mg capsules  
125mg/5ml, 250mg/5ml oral SF suspension  
250mg, 500mg injection  
3g sachets

##### **CO-AMOXICLAV**

125/31 and 250/62 suspension  
375mg tablets  
600mg and 1200mg injection

##### **BENZYL PENICILLIN**

600mg injection

##### **FLUCLOXACILLIN**

250mg, 500mg capsules  
125mg/5ml and 250mg/5ml SF suspension  
250mg, 500mg, 1g injection

##### **PHENOXYMETHYL PENICILLIN (PENICILLIN V)**

250mg tablets  
125mg/5ml, 250mg/ml suspension

##### **PIPERACILLIN WITH TAZOBACTAM**

2.25g, 4.5g injection

#### 5.1.2. Cephalosporins and other beta-lactams

##### **CEFOTAXIME**

500mg, 1g injection

##### **CEFTAZIDIME**

250mg, 500mg, 1g, 2g injection

##### **CEFUROXIME**

250mg, 750mg, 1500mg injection

##### **CEFALEXIN**

250mg tablets  
250mg/5ml suspension

##### **CEFTRIAZONE**

250mg, 1g injection

##### **AZTREONAM**

500mg, 1g, 2g injection

Restricted to use for Cystic Fibrosis patients or on the advice of microbiology or infectious disease physicians

##### **MEROPENEM**

500mg, 1g injection

##### **IMIPENEM WITH CILASTIN (PRIMAXIN®)**

500mg injection

#### 5.1.3. Tetracyclines

See section 13.6.2 for tetracyclines used in the treatment of acne

##### **DOXYCYCLINE**

100mg/5ml Injection<sup>SP</sup>

#### 5.1.4. Aminoglycosides

##### **AMIKACIN**

100mg/2ml, 500mg/2ml injection

##### **GENTAMICIN**

20mg/2ml, 80mg/2ml injection  
5mg/5ml intrathecal injection

##### **TOBRAMYCIN**

40mg/1ml, 80mg/2ml injection  
60mg/ml, 75mg/ml nebuliser solution

Restricted to use for Cystic Fibrosis patients or on the advice of microbiology or infectious disease physicians.

- 5.1.5. Macrolides
- AZITHROMYCIN**  
250mg capsules  
200mg/5ml suspension
- CLARITHROMYCIN**  
250mg tablets  
125mg/5ml paediatric suspension  
500mg injection
- ERYTHROMYCIN**  
250mg tablets  
125mg/5ml, 250mg/5ml suspension  
1g injection
- 5.1.6. Clindamycin
- CLINDAMYCIN**  
75mg capsules  
75mg/5ml suspension<sup>SP</sup>  
300mg/2ml injection
- 5.1.7. Some other antibacterials
- COLOMYCIN<sup>O</sup>**  
1 mega unit, 2 mega unit injection used for nebulisation
- LINEZOLID**  
2mg/ml IV infusion (300ml)  
Restricted to use only on the advice of microbiology or infectious disease physicians.
- SODIUM FUSIDATE**  
250mg tablets  
175mg/5ml suspension,  
500mg injection
- TEICOPLANIN**  
200mg injection
- VANCOMYCIN**  
500mg injection
- 5.1.8. Sulphonamides and trimethoprim
- CO-TRIMOXAZOLE**  
480mg tablets  
240mg/5ml paediatric suspension  
480mg/5ml suspension  
480mg/5ml IV infusion
- TRIMETHOPRIM**  
100mg tablets  
50mg/5ml SF suspension
- 5.1.9. Antituberculosis drugs
- ETHAMBUTOL**  
100mg tablets
- ISONIAZID**  
50mg, 100mg tablets  
50mg/5ml liquid<sup>SP</sup>
- PYRAZINAMIDE**  
500mg tablets<sup>SP</sup>
- RIFAMPACIN**  
150mg, 300mg capsules  
100mg/5ml suspension
- RIFINAH<sup>®</sup>**  
Available as '150' and '300' preparations
- 5.1.10. Antileprotic drugs
- DAPSONE**  
Restricted to specialist initiation

- 5.1.11. Metronidazole  
**METRONIDAZOLE**  
 200mg tablets  
 200mg/5ml suspension  
 500mg/100ml IV infusion  
 500mg suppositories
- 5.1.12. Quinolones  
**CIPROFLOXACIN**  
 250mg tablets  
 250mg/5ml suspension  
 100mg/50ml, 200mg/100ml IV infusion
- 5.1.13. Urinary-tract infections  
**TRIMETHOPRIM**  
 100mg tablets  
 50mg/5ml SF suspension  
**NITROFURANTOIN**  
 50mg capsules  
 25mg/5ml suspension

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5.2. **ANTIFUNGAL DRUGS**

**AMPHOTERICIN**

- 50mg infusion
- 50mg liposomal infusion

**CASPOFUNGIN**

- 50mg, 70mg IV infusion

Restricted to hospital use only.

Caspofungin is restricted to paediatric patients with fluconazole-resistant Candida infection unresponsive to or who cannot tolerate amphotericin B therapy. It is not recommended by SMC for invasive aspergillosis. Restricted for empirical therapy for presumed fungal infections in febrile, neutropenic paediatric patients on the advice of microbiologists or specialists in infectious diseases.

**FLUCONAZOLE**

- 50mg, 200mg capsules
- 50mg/5ml suspension
- 50mg/25ml, 200mg/10ml injection

**ITRACONAZOLE**

- 100mg capsules
- 50mg/5ml SF oral liquid

**MICONAZOLE**

- 25mg/ml oral gel

**NYSTATIN**

- 100,000 units/ml suspension

**POSACONAZOLE**

- 200mg/5ml suspension

Restricted to hospital use only.

Use for the prophylaxis of invasive fungal infections in immunocompromised patients is restricted to patients in whom there is a specific risk of aspergillus infection or where fluconazole or itraconazole are not tolerated in accordance with local protocol.

**VORICONAZOLE**

- 50mg, 200mg tablets
- 200mg/5ml oral suspension
- 200mg IV infusion

Restricted to hospital use only.

Restricted to use in secondary care on the advice of microbiologist/ haematologist primarily in immuno-compromised patients with progressive, possibly life-threatening infections. Treatment of candidaemia in non-neutropenic patients is restricted to those who cannot tolerate amphotericin B therapy or who are at an increased risk of serious side effects with amphotericin.

- 5.3. ANTIVIRAL DRUGS**
- 5.3.1. HIV infection**  
See BNF for Children and GGC Adult Formulary for restrictions on use. All antivirals are to be used under the supervision of a Paediatric HIV specialist.
- 5.3.2. Herpes virus infections**
- ACICLOVIR**  
200, 400mg dispersible tablets  
200mg/5ml suspension  
250mg/10ml for IV infusion
- CIDOFOVIR**  
375mg/5ml injection (specialist use only)
- GANCICLOVIR**  
500mg infusion
- VALGANCICLOVIR**  
450mg tablets  
250mg/5ml oral solution  
Restricted to use by HIV specialists, ophthalmologists specialising in ocular issues associated with HIV infection and physicians experienced in the care of post-transplant patients.
- 5.3.3. Viral hepatitis**  
Also see BNF for Children and GGC Adult Formulary.
- PEGYLATED INTERFERON ALFA-2B (VIRAHERON PEGOL®)**  
Restricted to specialist use in a combination regimen with ribavirin for the treatment of children 3 years of age and older and adolescents, who have chronic hepatitis C, not previously treated, without liver decompensation, and who are positive for HCV-RNA
- PEGYLATED INTERFERON ALFA-2A (PEGASYS®)**  
Restricted to prescribing by specialists in paediatric infectious disease or paediatric gastroenterology. Formulary in combination with ribavirin for the treatment of chronic hepatitis C (CHC) in treatment-naïve children and adolescents 5 years of age or older who are positive for serum hepatitis-C-virus ribonucleic acid (HCV-RNA).
- ENTECAVIR (BARACLUDE®)**  
Restricted to use by specialists in paediatric infectious diseases for the treatment of chronic hepatitis B virus infection in nucleoside naïve paediatric patients from 2 to <18 years of age with compensated liver disease who have evidence of active viral replication and persistently elevated serum alanine aminotransferase levels, or histological evidence of moderate to severe inflammation and/or fibrosis.
- 5.3.4. Influenza**
- OSELTAMIVIR**  
30mg, 45mg, 75mg capsule  
6mg/ml SF suspension  
Use in the prophylaxis and treatment of influenza is subject to NICE TA158 and TA168
- 5.3.5. Respiratory syncytial virus**
- PALIVIZUMAB**  
50, 100mg injection (restricted to use according to West of Scotland Treatment Protocol)
- RIBAVIRIN**  
1200mg/12ml injection<sup>SP</sup> (specialist use only)
- 
- 5.4. ANTIPROTOZOAL DRUGS**
- 5.4.1. Antimalarials**
- CHLOROQUINE**  
50mg/5ml syrup  
200mg/5ml injection
- PYRIMETHAMINE<sup>P</sup>**  
25mg tablets
- PRIMAQUINE<sup>P</sup>**  
7.5mg tablets
- PROGUANIL**  
100mg tablets
- QUININE**  
600mg/2ml injection  
Quinine IV should be administered with caution under the supervision of a specialist in infectious diseases.

## Key to abbreviations

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
| P  | Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary |
| SP | Available as an unlicensed or special preparation   |



- 5.4.2. Amoebicides  
See metronidazole (section 5.1.11)
- 5.4.3. Trichomonacides  
See metronidazole (section 5.1.11)
- 5.4.4. Antigiardial drugs  
See metronidazole (section 5.1.11)
- 5.4.5. Leishmaniacides  
See BNF for Children
- 5.4.6. Trypanocides  
See BNF for Children
- 5.4.7. Drugs for toxoplasmosis  
**PYRIMETHAMINE<sup>P</sup>**  
50mg tablets  
Restricted to specialist use in combination with sulfadiazine
- 5.4.8. Drugs for pneumocystis pneumonia  
**ATOVAQUONE**  
750mg/5ml suspension  
Restricted to use only on the advice of a specialist in infectious diseases  
**CO-TRIMOXAZOLE**  
480mg tablets  
240mg/5ml paediatric suspension  
480mg/5ml adult suspension  
480mg/5ml for IV infusion  
**DAPSONE**  
See section 5.1.10  
**PENTAMIDINE**  
300mg injection

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## 5.5. ANTHELMINTICS

- 5.5.1. Drugs for threadworms  
**MEBENDAZOLE**  
100mg tablets  
**PIPERAZINE**  
Piperazine 4g/Sennosides 15.3mg sachet (Pripsen®)
- 5.5.2. Ascaricides  
See BNF for Children
- 5.5.3. Drugs for tapeworm infections  
See BNF for Children
- 5.5.4. Drugs for hookworms  
See BNF for Children
- 5.5.5. Schistosomicides  
See BNF for Children
- 5.5.6. Filaricides  
See BNF for Children
- 5.5.7. drugs for cutaneous larva migrans  
See BNF for Children
- 5.5.8. Drugs for strongyloidiasis  
See BNF for Children

## 6. ENDOCRINE SYSTEM

### 6.1. DRUGS USED IN DIABETES

#### 6.1.1. Insulins

##### **HUMAN SOLUBLE INSULIN**

Actrapid®, Novorapid®

##### **HUMAN ISOPHANE INSULIN**

Insulatard®

##### **BISPHASIC INSULIN**

Humulin M3®

##### **INSULIN LISPRO (HUMALOG®)**

Humalog®

##### **INSULIN DETEMIR (LEVEMIR®)**

Restricted to initiation by consultant diabetologists in children aged 1 year and over, and adolescent patients with severe/frequent nocturnal hypoglycaemia in patients unable to achieve good glycaemic control with established insulins. Not for routine use in type 2 diabetes unless patient suffers from recurrent episodes of hypoglycaemia.

##### **INSULIN GLARGINE (LANTUS®)**

Restricted to the initiation by consultant diabetologists for the treatment of diabetes mellitus in children aged 2 years and above in patients with type 1 diabetes who are at risk of or experience unacceptable frequency and/or severity of nocturnal hypoglycaemia on attempting to achieve better hypoglycaemic control during treatment with established insulins. It is also acceptable as a once daily insulin therapy for patients who require carer administration of their insulin. In patients with type 2 diabetes it should be restricted to those who suffer from recurrent episodes of hypoglycemia or require assistance with their insulin injections.

#### 6.1.2. Oral antidiabetic drugs

##### **METFORMIN**

500mg tablets

500mg in 5ml SF oral solution

Excludes modified-release preparations

#### 6.1.3. Diabetic ketoacidosis

See BNF for Children and DKA protocol on StaffNet for further information on the management of diabetic ketoacidosis.

#### 6.1.4. Treatment of hypoglycaemia

##### **DIAZOXIDE<sup>P</sup>**

50mg tablets

100mg/5ml suspension<sup>SP</sup>

300mg/20ml injection

##### **GLUCAGON**

1mg injection

##### **GLUCOSE**

Glucose 10% IV infusion

Glucose oral gel (Glucogel®)

##### **OCTREOTIDE<sup>O</sup>**

50, 100 microgram/ml injection

##### **CHLOROTHIAZIDE<sup>O</sup>**

See section 2.2.1 for details

#### 6.1.5. Treatment of diabetic nephropathy and neuropathy

See BNF for Children

#### 6.1.6. Diagnostic and monitoring agents for diabetes mellitus

See BNF for Children

### 6.2. THYROID AND ANTITHYROID DRUGS

#### 6.2.1. Thyroid hormones

##### **LEVOTHYROXINE**

25microgram, 50microgram, 100microgram tablets

##### **LIOTHYRONINE**

20microgram injection

The injection is restricted to specialist use only.

#### Key to abbreviations

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
| P  | Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary |
| SP | Available as an unlicensed or special preparation   |

- 6.2.2. Antithyroid drugs  
**CARBIMAZOLE**  
 5mg, 20mg tablets  
**AQUEOUS IODINE (LUGOL'S IODINE)**  
 130mg/ml solution  
 Restricted to specialist use only.  
**PROPYLTHIOURACIL**  
 50mg tablets  
 Restricted to specialist initiation.
- 
- 6.3. **CORTICOSTEROIDS**  
 6.3.1. Replacement therapy  
**FLUCORTISONE ACETATE**  
 100microgram tablets  
**HYDROCORTISONE**  
 10mg tablets  
 Hydrocortisone sodium phosphate 100mg injection (preferred for home use)  
 Hydrocortisone sodium succinate 100mg injection  
 Hydrocortisone granules (Alkindi®) are restricted to use in children up to age 6 years in whom hydrocortisone must otherwise be given by crushing or splitting tablets or by using specially-prepared solutions or buccal tablets in order to administer an age-appropriate dose.
- 6.3.2. Glucocorticoid therapy  
**DEXAMETHASONE**  
 500microgram, 2mg tablets  
 10mg/5ml elixir<sup>SP</sup>  
 10mg/2ml injection  
**METHYLPREDNISOLONE**  
 40mg, 500mg injection  
 40mg/ml depot injection  
**PREDNISOLONE**  
 1mg, 5mg, 25mg tablets  
 5mg soluble tablets
- 
- 6.4. **SEX HORMONES**  
 6.4.1. Female sex hormones  
**ETHINYLESTRADIOL**  
 10microgram tablets  
 2mg tablets<sup>SP</sup>  
**NORETHISTERONE**  
 5mg tablets
- 6.4.2. Male sex hormones and antagonists  
**TESTOSTERONE**  
 Testosterone undecanoate 40mg capsules  
 Testosterone propionate 100mg, 250mg oily injection  
 Testosterone enantate 250mg/ml oily injection  
**GOSERELIN**  
 10.8mg implant  
 Restricted to specialist initiation for precocious puberty  
**TRIPTORELIN**  
 3.75mg, 11.25mg depot injection  
 Restricted to specialist initiation for precocious puberty
- 6.4.3. Anabolic steroids  
**OXANDROLONE<sup>SP</sup>**  
 2.5mg tablets

**6.5. HYPOTHALAMIC AND PITUITARY HORMONES****6.5.1. Hypothalamic and anterior pituitary hormones including growth hormones****CHORIONIC GONADOTROPHIN**

5000 units injection

**GONADORELIN**

100microgram injection

**PROTERELIN**

200microgram/2ml injection

**SOMATROPIN (RECOMBINANT HUMAN GROWTH HORMONE)**

The treatment of growth disturbance in short children born small for gestational age and who have failed to show catch-up growth by 4 years of age or later is restricted to initiation and monitoring by a paediatrician with expertise in managing childhood growth disorders and growth hormone therapy.

**TETRACOSACTIDE (TETRACOSACTRIN)**

250microgram/ml injection (Synacthen®)

1mg/1ml depot injection (Synacthen Depot®)

**6.5.2. Posterior pituitary hormones and antagonists****ARGIPRESSIN**

20units/ml injection

**DESMOPRESSIN**

200microgram tablets

120microgram oral lypophilisates

100microgram/ml intranasal solution

4microgram/ml injection

10microgram/dose nasal spray

150microgram/dose nasal spray (only for use in the management of mild haemophilia A or Von Willebrand disease)

**6.6. DRUGS AFFECTING BONE METABOLISM****6.6.1. Calcitonin**

See BNF for Children (restricted to specialist use only)

**6.6.2. Bisphosphonates****DISODIUM PAMIDRONATE**

15mg IV infusion

**6.7. OTHER ENDOCRINE DRUGS****6.7.1. Bromocriptine and other dopaminergic drugs**

No preparations are included in the Formulary

**6.7.2. Drugs affecting gonadotrophins**

See section 6.4.2

**6.7.3. Metyrapone**

No preparations are included in the Formulary

**6.7.4. Somatomedins****MECASERMIN**

10mg/ml injection

Restricted to specialist use only in accordance with protocol

## 7. OBSTETRICS, GYNAECOLOGY, AND URINARY-TRACT DISORDERS

### 7.1. DRUGS USED IN OBSTETRICS

No preparations are included in the Formulary

### 7.2. TREATMENT OF VAGINAL AND VULVAL CONDITIONS

#### 7.2.1. Preparations for vaginal and vulval changes

No preparations are included in the Formulary

#### 7.2.2. Vaginal and vulval infections

##### **CLOTRIMAZOLE**

1% cream

100mg, 500mg pessaries

### 7.3. CONTRACEPTIVES

#### 7.3.1. Combined hormonal contraceptives

See GGC Adult Formulary and BNF for Children

#### 7.3.2. Progestogen-only contraceptives

No preparations are included in the Formulary

#### 7.3.3. Spermicidal contraceptives

No preparations are included in the Formulary

#### 7.3.4. Contraceptive devices

No preparations are included in the Formulary

#### 7.3.5. Emergency contraception

No preparations are included in the Formulary

### 7.4. DRUGS FOR GENITO-URINARY DISORDERS

#### 7.4.1. Drugs for urinary retention

##### **DOXAZOSIN**

1mg, 2mg tablets

#### 7.4.2. Drugs for urinary frequency, enuresis, and incontinence

##### **OXYBUTYNIN**

5mg tablets

5mg, 10mg modified-release tablets

#### 7.4.3. Drugs used in urological pain

##### **POTASSIUM CITRATE**

Effercitrate® tablets

##### **SODIUM BICARBONATE**

600mg tablets

8.4% (1mmol/ml) oral solution<sup>SP</sup>

#### 7.4.4. Bladder instillations and urological surgery

##### **CHLORHEXADINE 0.02%**

100ml Uro-Tainer®

##### **SODIUM CHLORIDE 0.9%**

100ml Uro-Tainer®

#### 7.4.5. Drugs for erectile dysfunction

No preparations are included in the Formulary

## 8. MALIGNANT DISEASE AND IMMUNOSUPPRESSION

### 8.1. CYTOTOXIC DRUGS

Cytotoxic medicines should only be used by or under the direction of an experienced clinician and treatment should follow recognised approved protocols

Drugs for cytotoxic-induced side effects

#### **ALLOPURINOL**

100mg tablets

100mg/5ml suspension<sup>SP</sup>

#### **FOLINIC ACID**

15mg tablets

50mg/5ml injection

#### **MESNA**

400mg/4ml, 1000mg/10ml injection

#### **RASBURICASE**

1.5g, 7.5mg injection

#### **GELCLAIR®**

15ml sachets

### 8.1.1. Alkylating drugs

#### **BUSULFAN (BUSULPHAN)**

2mg tablets

6mg/ml IV infusion

#### **CHLORAMBUCIL**

2mg tablets

#### **CYCLOPHOSPHAMIDE**

500mg, 1g injection

50mg tablets

Suspension<sup>SP</sup>

#### **IFOSFAMIDE**

500mg, 1g, 2g injection

#### **MELPHALEN**

100mg injection

### 8.1.2. Cytotoxic antibiotics

#### **BLEOMYCIN**

15mg injection

#### **DACTINOMYCIN (ACTINOMYCIN D)**

500microgram injection

#### **DAUNORUBICIN**

20mg injection

#### **DOXORUBICIN**

10mg, 50mg injection

#### **EPIRUBICIN**

10mg, 50mg injection

#### **MITOMYCIN**

2mg injection

#### **MITOXANTRONE (MITOZANTRONE)**

2mg/ml IV infusion (available as 10ml, 12.5ml and 15ml vials)

### 8.1.3. Antimetabolites

#### **CLOFARABINE**

1mg/ml (20ml) injection

#### **CYTARABINE**

20mg/ml (5ml) and 100mg/ml (10ml) injection

#### **FLUDARABINE**

50mg injection

#### **MERCAPTOPURINE**

50mg tablets

10mg tablets<sup>SP</sup>

100mg/5ml Suspension

**METHOTREXATE**

2.5mg, 10mg tablets

When dispensing is to be carried out in primary care, the 2.5mg strength tablet should be used where possible.

5mg/2ml, 1000mg/10ml, 2000mg injection

10mg/5ml Suspension<sup>SP</sup>**TIOGUANINE**

40mg tablets

10mg capsules<sup>SP</sup>50mg/5ml Suspension<sup>SP</sup>

## 8.1.4. Vinca alkaloids and etoposide

**ETOPOSIDE**

100mg/5ml injection

**VINBLASTINE**

10mg injection

**VINCRISTINE**

1mg/1ml, 2mg/2ml injection

## 8.1.5. Other antineoplastic drugs

**AMSACRINE**

50mg/ml (1.5ml) injection

**ARSENIC TRIOXIDE**

1mg/ml injection

**ASPARAGINASE**

10,000 unit infusion (Spectrila®)

10,000 unit injection (Erwinase®)

5,000 unit injection (Medac® asparinase)

Pegylated asparaginase 3,750 unit injection<sup>SP</sup>**CARBOPLATIN**

50mg, 150mg, 450mg injection

**CISPLATIN**

10mg, 50mg injection

**DINUTUXIMAB BETA (QARBIZA®)**

4.5mg/ml infusion

Restricted to specialist use only in accordance with national protocols

**DECARBAZINE**

100mg, 500mg injection

**IMATINIB**

100mg tablets

The treatment of paediatric patients with newly diagnosed Philadelphia chromosome positive acute lymphoblastic leukaemia (Ph+ ALL) integrated with chemotherapy is not recommended for use in NHS Scotland by the SMC and is non-Formulary.

**IPILIMUMAB (YERVOY®)**

5mg/ml infusion

Use as monotherapy for the treatment of advanced (unresectable or metastatic) melanoma in adolescents 12 years and older is restricted to specialist use in accordance with national protocols.

**PROCARBAZINE**

50mg capsules

**TEMOZOLOMIDE**

5mg, 20mg, 100mg capsules

**TRETINOIN**

10mg capsules

## 8.2. DRUGS AFFECTING THE IMMUNE RESPONSE

Many of the medicines in this section may also be included in other sections of the Formulary, particular sections 1.5.3 and 10.1.3.

## 8.2.1. Antiproliferative immunosuppressants

**AZATHIOPRINE**

25mg, 50mg tablets

50mg injection

**MYCOPHENOLATE MOFETIL**

250mg capsules

1g/5ml oral suspension

## Key to abbreviations

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
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| SP | Available as an unlicensed or special preparation   |

## 8.2.2. Corticosteroids and other immunosuppressants

**CICLOSPORIN**

10mg, 25mg, 50mg, 100mg capsules

100mg/ml liquid

50mg/ml injection

**SIROLIMUS**

0.5mg, 1mg tablets

1mg/ml oral solution

**TACROLIMUS**

0.5mg, 1mg, 5mg immediate-release capsules

200microgram, 1mg granules (as sachets)

Suspension<sup>SP</sup>

## 8.2.3. Rituximab and alemtuzumab

**ALEMTUZUMAB<sup>O</sup>**

30mg/ml concentrate of IV infusion. Specialist use only.

Use in patients &lt;17 years of age is unlicensed

**RITUXIMAB**

100mg injection. Specialist use only.

## 8.2.4. Other immunomodulating drugs

No preparations are included in the Formulary

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**8.3. SEX HORMONES AND HORMONES ANTAGONISTS IN MALIGNANT DISEASE**8.3.1. **Oestrogens**

No preparations are included in the Formulary

8.3.2. **Progestogens**

No preparations are included in the Formulary

8.3.3. **Androgens**

No preparations are included in the Formulary

8.3.4. **Hormone antagonists**

See section 6.4



## 9. NUTRITION AND BLOOD

### 9.1. ANAEMIAS AND SOME OTHER BLOOD DISORDERS

#### 9.1.1. Iron deficiency anaemias

Oral iron

##### **FERROUS FUMARATE**

210mg tablets. (contains 68mg iron)

140mg/5ml syrup (contains 45mg iron in 5ml)

##### **FERROUS SULPHATE**

200mg tablets (contains 65mg iron)

##### **SODIUM FEREDETATE**

190mg/5ml elixir (contains 27.5mg iron in 5ml)

Parenteral iron

##### **IRON SUCROSE**

100mg/5ml injection (Venofer®)

#### 9.1.2. Drugs used in megaloblastic anaemias

Also seen folic acid in section 8.1

##### **FOLIC ACID**

5mg tablets

2.5mg/5ml syrup

##### **HYDROXOCOBALAMIN**

1mg/1ml injection

#### 9.1.3. Drugs used in hypoplastic, haemolytic, and renal anaemias

##### **EPOETIN BETA**

500units, 1000units, 2000units injection

##### **DEFERASIROX**

125mg, 250mg, 500mg dispersible tablets

Restricted to patients with myelodysplastic syndrome with an International Prognostic Scoring System (IPSS) score of low or intermediate -1 risk.

##### **DEFERRIOXAMINE MESILATE**

500mg injection

#### 9.1.4. Drugs used in platelet disorders

##### **ELTROMBOPAG**

25mg tablets

Restricted to use in patients of 1 year or older with severe symptomatic ITP or a higher risk of bleeding.

#### 9.1.5. G6PD deficiency

No preparations are included in the Formulary

#### 9.1.6. Drugs used in neutropenia

##### **LENOGRASTIM**

105microgram, 263microgram injection

### 9.2. FLUIDS AND ELECTROLYTES

#### 9.2.1. Oral preparations for fluid and electrolyte imbalance

Oral potassium

##### **POTASSIUM CHLORIDE**

Effervescent tablets (Sando-K®) 12mmol of K<sup>+</sup> per tablet

600mg MR tablets (Slow-K®) 8mmol of K<sup>+</sup> per tablet

5mmol/5ml syrup (Kay-Cee-L®)

Management of hyperkalaemia

##### **CALCIUM RESONIUM®**

##### **RESONIUM A®**

Oral sodium

##### **SODIUM CHLORIDE**

#### Key to abbreviations

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| SP | Available as an unlicensed or special preparation   |

600mg MR tablets (Slow Sodium®) 10mmol Na<sup>+</sup> per tablet

Oral rehydration salts

**DIORALYTE®**

Oral powder

Oral bicarbonate

**SODIUM BICARBONATE**

500mg capsules, 6mmol of HCO<sub>3</sub><sup>-</sup> per tablet.

8.4% (1mmol/ml) Oral solution<sup>SP</sup>

### 9.2.2.

Parenteral preparations for fluid and electrolyte imbalance

Electrolytes and water

**GLUCOSE 5%**

50ml, 100ml, 250ml, 500ml, 1000ml

**PLASMA-LYTE® 148**

500ml

1000ml

**PLASMA-LYTE® 148 WITH GLUCOSE 5%**

500ml

1000ml

**HALF-STRENGTH RINGER-LACTATE IN**

**GLUCOSE 5%**

500ml

**SODIUM CHLORIDE 0.45%**

500ml

**SODIUM CHLORIDE 0.9%**

50ml, 100ml, 250ml, 500ml, 1000ml

**SODIUM CHLORIDE 0.9% WITH**

**POTASSIUM CHLORIDE 0.3%**

500ml contains 20mmol of K<sup>+</sup>

**GLUCOSE 5% & SODIUM CHLORIDE 0.45%**

500ml

**GLUCOSE 5% & SODIUM CHLORIDE 0.45% WITH POTASSIUM CHLORIDE 0.15%**

500ml contains 10mmol of K<sup>+</sup>

**GLUCOSE 5% & SODIUM CHLORIDE 0.45% WITH POTASSIUM CHLORIDE 0.3%**

500ml contains 20mmol of K<sup>+</sup>

**GLUCOSE 5% WITH POTASSIUM CHLORIDE 0.3%**

500ml contains 20mmol of K<sup>+</sup>

**GLUCOSE 10%**

500ml, 1000ml

**GLUCOSE 10% & SODIUM CHLORIDE 0.18%**

500ml

**POTASSIUM CHLORIDE 15% INJECTION (CONC)**

10ml. CAUTION: Controlled preparation. Potassium Chloride 15% injection is a concentrated potassium injection that is subject to close control on use in light of risks of inadvertent use and errors. Ready-made infusion bags should be used in preference wherever possible.

**SODIUM BICARBONATE 8.4%**

250ml

**WATER FOR INJECTION**

Plasma substitutes

**GELOFUSINE®**

500ml

**HUMAN ALBUMIN**

### 9.3.

#### INTRAVENOUS NUTRITION

Intravenous nutrition should only be initiated following advice from pharmacy or an experienced clinician.

#### Key to abbreviations

|    |   |
|----|---|
| O  | Licensed preparation being used for an unlicensed indication  |
| P  | Preparation is only included in the Paediatric Formulary and is not included in the GGC Adult Formulary |
| SP | Available as an unlicensed or special preparation   |

**9.4. ORAL NUTRITION****9.4.1. Foods for special diets****GLUTAMINE  
FRUCTOOLIGOSACCHARIDE****9.4.2. Enteral nutrition**

No preparations are included in the Formulary

**9.5. MINERALS****9.5.1. Calcium and magnesium****CALCIUM GLUCONATE**

10% injection, 10ml (equivalent to 2.26mmol in 10ml)

**CALCIUM CHLORIDE**

10% injection 10ml (equivalent to 6.8mmol in 10ml)

**CALCIUM-SANDOZ<sup>®</sup>**

Syrup contains 108.3mg of calcium per 5ml (equivalent to 2.7mmol in 5ml)

**SANDOCAL<sup>®</sup> 400**

Effervescent tablets each containing 400mg of calcium (equivalent to 10mmol per tablet)

**SANDOCAL<sup>®</sup> 1000**

Effervescent tablets each containing 1000mg of calcium (equivalent to 25mmol per tablet)

**CALCICHEW<sup>®</sup>**

Contain calcium 500mg per tablet (equivalent to 12.5mmol per tablet)

**CO-MAGALDROX**

195/220 Suspension.

Brands include Maalox<sup>®</sup> and Mucogel<sup>®</sup>

**MAGNESIUM CITRATE**

6mmol tablets (Magasorb)<sup>U</sup>

**MAGNESIUM L-ASPARTATE**

5mmol sachets <sup>U</sup>

10mmol sachets (Magnasparte)

**MAGNESIUM SULPHATE**

50% injection, contains approximately 2mmol of Mg<sup>2+</sup> per ml

**9.5.2. Phosphorous****PHOSPHATE-SANDOZ<sup>®</sup>**

Each tablet contains 16.1mmol of phosphate

**POTASSIUM ACID PHOSPHATE**

13.6% oral solution (equivalent to 1mmol/ml phosphate)

13.6% injection (equivalent to 1mmol/ml phosphate)

**CALCIUM CARBONATE<sup>SP</sup>**

250mg dispersible tablets for use as a phosphate-binder

**CALCIUM ACETATE**

1g tablets (Phosex) for use as a phosphate binder

**SEVELAMER HYDROCHLORIDE**

800mg tablets for use as a phosphate binder

**SEVELAMER CARBONATE**

2.4g sachets for use as a phosphate binder

**9.5.3. Fluoride**

No preparations are included in the Formulary

**9.5.4. Zinc****ZINC SULPHATE**

125mg effervescent tablets(Solvazinc<sup>®</sup>)

**9.6. VITAMINS****9.6.1. Vitamin A**

100,000units/2ml injection<sup>SP</sup>

150,000units/ml oral drops<sup>SP</sup>

**9.6.2. Vitamin B group***Key to abbreviations*

|    |   |
|----|---|
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| SP | Available as an unlicensed or special preparation   |

**PYRIDOXINE**

50mg tablets  
50mg/2ml injection<sup>SP</sup>

**THIAMINE**

50mg tablets  
100mg/2ml injection<sup>SP</sup>

## 9.6.3. Vitamin C

**ASCORBIC ACID**

50mg, 200mg tablets

## 9.6.4. Vitamin D

**ALFACALCIDOL**

0.25microgram, 1microgram capsules  
2microgram/ml liquid

**CALCICHEW-D<sub>3</sub>**<sup>®</sup>

Contains 500mg calcium and 200units of colecalciferol per tablet

**COLECALCIFEROL**

Thorens 10,000 units/ml oral drops, solution (200 units per drop)

## 9.6.5. Vitamin E

**ALPHA TOCOPHERYL ACETATE**

50mg tablets  
500mg/5ml suspension  
100mg injection<sup>SP</sup>

## 9.6.6. Vitamin K

**PHYTOMENADIONE**

1mg capsules (restricted to use in prevention of neonatal haemorrhagic disease where IM treatment is not applicable)  
1mg/0.5ml neonatal injection  
10mg/ml injection (Konakion<sup>®</sup> MM Paediatric)

**MENADIOL**

10mg tablets<sup>SP</sup>

## 9.6.7. Multivitamin preparations

**VITAMINS CAPSULES BPC****DALIVIT**<sup>®</sup>

Oral drops.

**FORCEVAL**<sup>®</sup>

Adult and Junior Capsules

**KETOVITE**<sup>®</sup>

Available as tablets and liquid

**PARAVIT CF**<sup>®</sup>

Available as liquid

Restricted to specialist initiation only for patients with cystic fibrosis

9.7. **BITTERS AND TONICS**

No preparations are included in the Formulary

9.8. **METABOLIC DISORDERS**

## 9.8.1. Drugs used in metabolic disorders

**ARGININE (L-ARGININE)**

500mg/ml and 600mg/ml injection  
100mg/ml oral solution  
500mg capsules

**BETAINE**

Anhydrous powder (Cystadane<sup>®</sup>)

## Key to abbreviations

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| SP | Available as an unlicensed or special preparation   |

500mg/ml powder for oral solution<sup>SP</sup>**BIOTIN (VITAMIN H)<sup>SP</sup>**

5mg tablets

**CARGLUMIC ACID (CARBAMYL GLUTAMATE)**

200mg dispersible tablets

**CARNITINE (LEVOCARNITINE)**

300mg/ml oral solution

200mg/ml injection

**GLYCEROL**

1.1g/ml oral solution Use as adjunctive therapy for chronic management of adults with urea cycle disorders (UCDs) who cannot be managed by dietary protein restriction and/or amino acid supplementation alone is restricted to specialist initiation.

**GLYCINE**500mg tablet<sup>SP</sup>**MERCAPTAMINE (CYSTEAMINE)**

50mg, 100mg capsules

0.55% eye drops

Note: Mercaptamine 25mg and 75mg capsules (Procysbi®) are not recommended for use by the SMC and are Non-formulary for treatment of proven nephropathic cystinosis.

**NITISINONE (NTBC)**

2mg, 5mg, 10mg capsules

**SODIUM BENZOATE**

500mg tablets

100mg/ml oral solution<sup>SP</sup>

20% injection

**SODIUM DICHOROACETATE**50mg/ml oral solution <sup>SP</sup>**SODIUM PHENYLBUTYRATE**

500mg tablets

940mg/1g granules (Ammonaps® granules)

483mg/1g granules (Pheburane®)

Note: Granule formulations are not dose equivalent and are not interchangeable and should be prescribed by brand name to avoid confusion.

200mg/ml injection<sup>SP</sup>**UBIDECARENONE (CO-ENZYME Q10, UBIQUINONE)<sup>SP</sup>**

30mg, 120mg capsules

Used primarily for mitochondrial disorders

- 9.8.2. Acute porphyrias  
No preparations are included in the Formulary

## 10. MUSCULOSKELETAL AND JOINT DISEASES

### 10.1. DRUGS USED IN RHEUMATIC DISEASES

Many of the medicines listed in this section, for example corticosteroids and immunomodulating drugs will also be included for other indications else where in the formulary, for example sections 1.5.3 and 8.1.

#### 10.1.1. Non-steroidal anti-inflammatory drugs

**ASPIRIN**

300mg dispersible tablets

**DICLOFENAC**

#### Key to abbreviations

|    |   |
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| SP | Available as an unlicensed or special preparation   |

25mg, 50mg enteric-coated tablets  
 50mg dispersible tablets  
 75mg/3ml injection  
 12.5mg, 25mg, 50mg, 100mg suppositories  
 50mg/5ml suspension<sup>SP</sup>

**IBUPROFEN**

200mg tablets  
 100mg/5ml suspension

**INDOMETACIN (INDOMETHACIN)**

25mg capsules  
 25mg/5ml suspension<sup>SP</sup>

**NAPROXEN**

250mg tablets

**PIROXICAM**

10mg dispersible tablets

## 10.1.2. Corticosteroids

**DEXAMETHASONE**

10mg/2ml injection

**METHYLPREDNISOLONE ACETATE**

40mg/ml injection

**TRIAMCINOLONE HEXACETONIDE**

10mg/ml, 20mg/ml and 40mg/ml injection (for intra-articular or intramuscular injection)

## 10.1.3. Drugs that suppress the rheumatic disease process

**ABATACEPT**

250mg infusion.

125mg sub-cutaneous injection

Specialist use only. Use in combination with methotrexate for the treatment of moderate to severe active polyarticular juvenile idiopathic arthritis in patients aged 6 years who have had an insufficient response to other DMARDs including at least one tumour necrosis factor (TNF) inhibitor is restricted to specialists working within paediatric rheumatology.

**ADALIMUMAB**

40mg/0.8ml pre-filled injection.

Specialist use only. Use in the treatment of active polyarticular juvenile idiopathic arthritis in children and adolescents aged 2 to 17 years who have had an inadequate response to one or more DMARDs, is restricted to specialists working within paediatric rheumatology. Combination treatment with methotrexate is the primary option.

Use for the treatment of active enthesitis-related arthritis in patients, 6 years of age and older, who have had an inadequate response to, or who are intolerant of, conventional therapy is restricted to specialist rheumatology services (including those working within the network for paediatric rheumatology).

**ANAKINRA**

100mg/0.67ml pre-filled injection.

Specialist use only. In adolescents, children and infants aged 8 months or older with a body weight of 10kg or above for the treatment of Still's Disease, including Systemic Juvenile Idiopathic Arthritis (SJIA), with active systemic features of moderate to high disease activity, or in patients with continued disease activity after treatment with NSAIDs or glucocorticoids. Anakinra can be given as monotherapy or in combination with other DMARDs.

**CHLOROQUINE**

50mg/ml syrup

**CICLOSPORIN**

10mg, 25mg, 50mg, 100mg capsules

100mg/ml liquid

50mg/ml injection

**ETANERCEPT**

25mg injection.

Specialist use only. Restricted to specialists working within paediatric rheumatology (including those working within the network for paediatric rheumatology) for the following indications:

- active polyarticular juvenile idiopathic arthritis in children and adolescents from the age of 2 years who have had an inadequate response to, or who have proved intolerant of, methotrexate
- psoriatic arthritis in adolescents from the age of 12 years who have had an inadequate response to, or who have proved intolerant of, methotrexate;
- enthesitis-related arthritis in adolescents from the age of 12 years who have had an inadequate response to, or who have proved intolerant of, conventional therapy.

**HYDROXYCHLOROQUINE SULPHATE**

200mg tablets

## Key to abbreviations

|    |   |
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| SP | Available as an unlicensed or special preparation   |

**METHOTREXATE**

2.5mg, 10mg tablets

When dispensing is to be carried out in primary care, the 2.5mg strength tablet should be used where possible.

5mg/2ml injection

**PENICILLAMINE**

125mg tablets

**SULFASALAZINE (SULPHASALAZINE)**

500mg tablets

250mg/5ml suspension

**TOCILIZUMAB**

20mg/ml concentrate for infusion.

Specialist use only. Use in the treatment of active systemic juvenile idiopathic arthritis in children and adolescents from the age of 2 years who have had an inadequate response to NSAIDs and systemic corticosteroids or previous therapy with methotrexate, is restricted to specialists working within paediatric rheumatology. Monotherapy is accepted use in case of intolerance to methotrexate or where continued treatment with methotrexate is inappropriate.

## 10.1.4. Cytotoxic-induced hyperuricaemia

**ALLOPURINOL**

100mg tablets

**RASBURICASE**

1.5mg, 7.5mg injection

## 10.1.5. Other drugs for rheumatic diseases

No preparations are included in the Formulary

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10.2. DRUGS USED IN NEUROMUSCULAR DISORDERS

## 10.2.1. Drugs that enhance neuromuscular transmission

**EDROPHONIUM CHLORIDE**

10mg/ml injection

**DISTIGMINE BROMIDE**

500microgram/ml injection

**NEOSTIGMINE**

2.5mg/ml injection

**PYRIDOSTIGMINE**

60mg tablets

## 10.2.2. Skeletal muscle relaxants

**BACLOFEN**

10mg tablets

5mg/5ml liquid

**DANTROLENE SODIUM**

25mg capsules

**DIAZEPAM**

2mg, 5mg tablets

2mg/5ml suspension

10mg/2ml injection

10mg/2ml emulsion injection

## 10.2.3. Drugs for other neuromuscular disorders

**NUSINERSEN**

Intrathecal injection

Restricted to specialist use only in patients with symptomatic type 1 (infantile onset) spinal muscular atrophy (SMA).

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10.3. DRUGS FOR THE RELIEF OF SOFT-TISSUE INFLAMMATION

## 10.3.1. Enzymes

**HYALURONIDASE**

1500 unit injection

## 10.3.2. Rubefacients and other topical antirheumatics

**KAOLIN POULTICE**

## Key to abbreviations

|    |   |
|----|---|
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| SP | Available as an unlicensed or special preparation   |

## 11. EYE

Prescribers should be aware that single-dose preparations of eye drops should only be used in those patients who are unable to tolerate preservatives. Generally, these preparations are much more expensive than regular eye drops.

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### 11.1. ADMINISTRATION OF DRUGS TO THE EYE

Eye preparations are generally available as either eye drops or as eye ointments. The BNF for Children contains useful advice pertaining to the practical use of these preparations. In brief, eye ointments will cause more short-term blurriness due to the nature of their composition than eye drops.

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### 11.2. CONTROL OF MICROBIAL CONTAMINATION

#### Key to abbreviations

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Eye preparations are generally sterile preparations and once opened will only be suitable for use for a short period, the length of which will depend on whether or not preservative is included in the Formulation. When using antibacterial eye preparations to treat infection in both eyes, it is good practice in the acute setting to dispense one pack for each eye labelled clearly to avoid cross-contamination. Again, the BNF for Children contains further advice on this.

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### 11.3. ANTI-INFECTIVE EYE PREPARATIONS

#### 11.3.1. Antibacterials

##### **CHLORAMPHENICOL**

- 0.5% eye drops
- 1% eye ointment
- 0.5% preservative-free single dose units

##### **FUSIDIC ACID**

- 1% eye drops

##### **GENTAMICIN**

- 0.3% drops for eye or ear

##### **NEOMYCIN SULPHATE**

- 0.5% eye drops
- 0.5% eye ointment

##### **OFLOXACIN**

- 0.3% eye drops

#### 11.3.2. Antifungals

No preparations are included in the Formulary

#### 11.3.3. Antivirals

##### **ACICLOVIR**

- 3% eye ointment

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### 11.4. CORTICOSTEROIDS AND OTHER ANTI-INFLAMMATORY PREPARATIONS

#### 11.4.1. Corticosteroids

##### **BETAMETHASONE**

- 0.1% drops for eye, ear or nose
- 0.1% eye ointment

##### **DEXAMETHASONE**

- 0.1% eye drops

##### **PREDNISOLONE**

- 0.5% drops for eye or ear (Predsol®)
- 1% eye drops (Predsol Forte®)

#### 11.4.2. Other anti-inflammatory preparations

##### **OTRIVINE-ANTISTIN®**

- Eye drops

##### **SODIUM CROMOGLICATE**

- 2% eye drops

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### 11.5. MYDRIATICS AND CYCLOPLEGICS

##### **ATROPINE**

- 0.5% eye drops
- 1% eye drops
- 1% preservative-free single dose unit (Minims®)

##### **CYCLOPENTOLATE**

- 0.5% eye drops
- 1% preservative-free single dose units (Minims®)

##### **PHENYLEPHRINE**

- 2.5% preservative-free single dose units (Minims®)
- 10% preservative-free single dose units (Minims®)

**TROPICAMIDE**

0.5% preservative-free single dose units (Minims®)

1% preservative-free single dose units (Minims®)

**11.6. TREATMENT OF GLAUCOMA****ACETAZOLAMIDE**

250mg tablets

500mg injection

**PILOCARPINE**

1% eye drops

**TIMOLOL**

0.25% eye drops

0.5% eye drops

**TRAVOPROST**

40 micrograms/ml eye drops

Restricted to specialist initiation

**11.7. LOCAL ANAESTHETICS****TETRACAINE (AMETHOCAINE)**

0.5% preservative-free single dose units (Minims®)

**OXYBUPROCAINE (BENOXINATE)**

0.4% preservative-free single dose units (Minims®)

**PROXYMETACAINE**

0.5% preservative-free single dose units (Minims®)

**11.8. MISCELLANEOUS OPHTHALMIC PREPARATIONS****11.8.1. Tear deficiency, ocular lubricants, and astringents****HYPROMELLOSE**

0.3% eye drops

**LACRI-LUBE®**

Eye ointment

**SIMPLE EYE OINTMENT****SODIUM CHLORIDE (SALINE)**

0.9% preservative-free single dose units (Minims®)

**CICLOSPORIN (VERKAZIA®)**

1mg/ml (0.1%) eye drops

Restricted to initiation by consultant ophthalmologists for the treatment of severe vernal keratoconjunctivitis (VKC) in children

**11.8.2. Ocular diagnostic and peri-operative preparations and photodynamic treatment****DICLOFENAC**

0.1% eye drops

**FLUORESCEIN SODIUM**

1% preservative-free single dose units (Minims®)

2% preservative-free single dose units (Minims®)

**11.9. CONTACT LENSES**

No preparations are included in the Formulary

**12. EAR, NOSE, AND OROPHARYNX****12.1. DRUGS ACTING ON THE EAR****12.1.1. Otitis externa****BETAMETHASONE**

0.1% drops for eye, ear or nose

**CIPROFLOXACIN (CETRAXAL®)**

2mg/ml ear drop solution

Restricted to clinical situations when off-label or unlicensed ciprofloxacin formulations would otherwise be used.

**FLUMETASONE AND CLIOQUINOL**

Ear drops contains 0.02% flumetasone and 1% clioquinol

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**GENTAMICIN**

0.3% drops for eye or ear

**GENTISONE® HC**

Gentamicin 0.3%, hydrocortisone 1% ear drops

**OTOSPORIN®**

Neomycin 3400units, polymyxin B sulphate 10,000units/ml, hydrocortisone 1% ear drops

**PREDNISOLONE**

0.5% drops for eye or ear (Predsol®)

**SOFRADEX®**

Framycetin 0.5%, dexamethasone 0.05%, gramicidin 0.005% drops for ear or eye

**OFLOXACIN**

0.3% eye drops (may be used as eardrops)°

- 12.1.2. Otitis media  
No preparations are included in the Formulary.  
See section 5.1 for systemic antibacterials which may be used.
- 12.1.3. Removal of ear wax  
No preparations are included in the Formulary.

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**12.2. DRUGS ACTING ON THE NOSE****12.2.1. Drugs used in nasal allergy****BECLOMETASONE DIPROPIONATE**

50microgram/spray aqueous nasal spray

**BETAMETASONE**

0.1% nasal drops

**MOMETASONE FUROATE**

50micrograms/spray nasal spray

**12.2.2. Topical nasal decongestants****EPHEDRINE**

0.5%, 1% nasal drops

**XYLOMETAZOLINE**

0.05%, 0.1% nasal drops

**12.2.3. Nasal preparations for infection****MUPIROCIN (BACTROBAN®)**

2% nasal ointment

**NASEPTIN®**

Chlorhexidine hydrochloride 0.1%, neomycin sulphate 0.5%

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**12.3. DRUGS ACTING ON THE OROPHARYNX****12.3.1. Drugs for oral ulceration and inflammation****BENZDAMINE (DIFFLAM®)**

0.15% oral rinse or 0.15% spray

**LIDOCAINE AND CETYLPYRIDINIUM (CALGEL TEETHING GEL®)****12.3.2. Oropharyngeal anti-infective drugs****MICONAZOLE**

2% oral gel

**NYSTATIN**

100,000units/ml oral suspension

**12.3.3. Lozenges and sprays**  
No preparations are included in the Formulary.**12.3.4. Mouthwashes and gargles***Key to abbreviations*

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**CHLORHEXIDINE GLUCONATE**

0.2% mouthwash, 1% dental gel

**THYMOL**

Mouthwash solution-tablets

- 12.3.5. Treatment of dry mouth  
No preparations are included in the Formulary.

## 13. SKIN

### 13.1. MANAGEMENT OF SKIN CONDITIONS

- 13.1.1. Vehicles  
13.1.2. Suitable quantities for prescribing  
13.1.3. Excipients and sensitisation

### 13.2. EMOLLIENT AND BARRIER PREPARATIONS

- 13.2.1. Emollients

**AQUEOUS CREAM<sup>P</sup>***Key to abbreviations*

- O Licensed preparation being used for an unlicensed indication  
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SP Available as an unlicensed or special preparation

Used as a soap substitute

**DIPROBASE®**Cream or ointment<sup>P</sup>**EMULISFYING OINTMENT<sup>P</sup>****HYDROMOL® OINTMENT****LIQUID AND WHITE SOFT PARAFFIN OINTMENT**

Liquid paraffin 50%, white soft paraffin 50%

**YELLOW SOFT PARAFFIN<sup>P</sup>****13.2.2. Barrier preparations****SIOPEL®<sup>P</sup>**

Cream

**METANIUM®<sup>P</sup>**

Ointment

**VASOGEN®<sup>P</sup>**

Cream

**ZINC AND CASTOR OIL**

Ointment

**13.3. TOPICAL ANTIPRURITICS****CALAMINE LOTION****CROTAMITON (EURAX®)**

10% cream

**13.4. TOPICAL CORTICOSTEROIDS****BETAMETASONE DIPROPIONATE**

0.05% cream or ointment (Diprosone®)

**BETAMETASONE VALERATE**

0.1% cream or ointment

0.025% cream or ointment (Betnovate-RD®)

**CLOBETASOL PROPIONATE**

0.05% cream or ointment (Dermovate®)

**CLOBETASONE BUTYRATE**

0.05% cream or ointment (Eumovate®)

**HYDROCORTISONE**

0.5% cream or ointment

1% cream or ointment

**MOMETASONE FUROATE**

0.1% ointment (Elocon®)

Combinations of steroids and antimicrobials

**HYDROCORTISONE AND CLOTRIMAZOLE (CANESTEN HC®)**

1% hydrocortisone and 1% clotrimazole cream

**HYDROCORTISONE AND MICONAZOLE NITRATE****(DAKTACORT®)**

1% hydrocortisone and 2% miconazole cream

**HYDROCORTISONE ACETATE AND FUSIDIC ACID****(FUCIDIN H®)**

1% hydrocortisone acetate and 2% fusidic acid cream

**BETAMETHASONE VALERATE AND FUSIDIC ACID****(FUCIBET®)**

0.1% betamethasone and 2% fusidic acid cream

**CLOBETASONE BUTYRATE, OXYTETRACYCLINE AND NYSTATIN (TRIMOVATE®)**

0.05% clobetasone butyrate, 3% oxytetracycline and 100,000 units/g nystatin in a cream

**13.5. PREPARATIONS FOR ECZEMA AND PSORIASIS****13.5.1. Preparations for eczema****ZINC AND ICTHAMMOL 1% OINTMENT<sup>SP</sup>**

Also known as Ichthammol 1% Special Ointment

*Key to abbreviations*

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- 13.5.2. Preparations for psoriasis
- COAL TAR IN YELLOW SOFT PARAFFIN<sup>SP</sup>**  
Available as 1%, 2%, 5% and 10%
- DITHRANOL OINTMENT BP**  
Available in various strengths
- DITHRANOL**  
Available in Yellow Soft Paraffin or Lassar's paste in various strengths
- SALICYLIC ACID AND SULPHUR IN YELLOW SOFT PARAFFIN<sup>SP</sup>**  
Only to be used when alternative preparations from the NHS GG&C Approved Dermatology Specials list are not appropriate.
- SALICYCLIC ACID, SULHUR AND CADE OIL IN YELLOW SOFT PARAFFIN<sup>SP</sup>**  
Only to be used when alternative preparations from the NHS GG&C Approved Dermatology Specials list are not appropriate

- 13.5.3. Drugs affecting the immune response
- ADALIMUMAB**  
40mg/0.8ml pre-filled injection.  
Restricted to specialist use for plaque psoriasis in children and young people in accordance with [NICE TA455](#).  
Use for treatment of active moderate to severe hidradenitis suppurativa (HS) (acne inversa) in adolescents from 12 years of age with an inadequate response to conventional systemic HS therapy is restricted to specialist use only.
- AZATHIOPRINE**  
See section 8.2.1
- METHOTREXATE**  
2.5mg, 10mg tablets  
When dispensing is to be carried out in primary care, the 2.5mg strength tablet should be used where possible.
- ETANERCEPT**  
10mg, 25mg injection.  
Restricted to specialist use for plaque psoriasis in children and young people in accordance with [NICE TA455](#).
- USTEKINUMAB**  
45mg injection and prefilled syringe  
Restricted to specialist use for plaque psoriasis in children and young people in accordance with [NICE TA455](#).

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**13.6. ACNE AND ROSACEA**

- 13.6.1. Topical preparations  
No preparations are included in the Formulary.

- 13.6.2. Oral preparations for acne
- ISOTRETINOIN**  
5mg, 20mg capsules  
Restricted to use in hospitals under specialist dermatological supervision
- LYMECYCLINE**  
408mg capsules

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**13.7. PREPARATIONS FOR WARTS AND CALLUSES**

- SALACTOL<sup>®</sup>**  
**SILVER NITRATE<sup>P</sup>**  
95% caustic pencil

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**13.8. SUNSCREENS AND CAMOUFLAGERS**

- 13.8.1. Sunscreen preparations
- SUNSENSE ULTRA<sup>®</sup>**  
This preparation has a protective effect of SPF 60.  
ACBS restrictions apply to prescribing in primary care.

- 13.8.2. Camouflagers  
No preparations are included in the Formulary.

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**13.9. SHAMPOOS AND OTHER PREPARATIONS FOR SCALP CONDITIONS**

*Key to abbreviations*

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SP Available as an unlicensed or special preparation

**POLYTAR®**

Please note: contains arachis (peanut) oil

**13.10. ANTI-INFECTIVE SKIN PREPARATIONS****13.10.1. Antibacterial preparations****FLAMAZINE®**

Silver sulfadiazine 1% cream

**FUCIDIN®**

Fusidic acid 2% cream or sodium fusidate 2% ointment

**MUPIROCIN**

2% ointment (Bactroban®)

**CHLORAMPHENICOL**

1% eye ointment may be applied to wounds (unlicensed use)

**POLYMXIN B**

Polyfax ointment

**13.10.2. Antifungal preparations****CLOTRIMAZOLE**

1% cream

**MICONAZOLE**

Miconazole nitrate 2% cream

**NYSTAFORM®**

Cream containing nystatin 100,000 units/g and chlorhexidine hydrochloride 1% (Nystaform®)

**13.10.3. Antiviral preparations****ACICLOVIR**

5% cream

**13.10.4. Parasiticial preparations****DIMETICONE**

4% lotion (Hedrin®)

**MALATHION**

0.5% liquid in aqueous base (Derbac-M®)

**PERMETHRIN**

5% dermal cream (Lyclear® Dermal Cream)

**13.10.5. Preparations for minor cuts and abrasions****MAGNESIUM SULPHATE PASTE BP****INDERMIL®**

Tissue adhesive for use in Emergency Departments only

**13.11. SKIN CLEANSERS AND ANTISEPTICS****13.11.1. Alcohols and saline****INDUSTRIAL METHYLATED SPIRITS BP****SODIUM CHLORIDE**

0.9% solution (25ml and 100ml sachets)

**13.11.2. Chlorhexidine salts****CHLORHEXIDINE GLUCONATE**

0.5% solution in alcoholic base hand rub

4% surgical scrub

0.05% solution (100ml sachets)

**13.11.3. Cationic surfactants and soaps****CETRIMIDE**

0.15% cetrimide with 0.015% chlorhexidine gluconate

(Tisept®, Travasept 100®)

*Key to abbreviations*

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- 13.11.4. Iodine  
**POVIDONE-IODINE**  
 10% alcoholic tincture (Videne®)  
 10% antiseptic solution in an aqueous base (Videne®)  
 7.5% surgical scrub in an aqueous base (Videne®)  
 2.5% dry powder spray (Betadine®)

- 13.11.5. Phenolics

- 13.11.6. Oxidisers and dyes  
**HYDROGEN PEROXIDE SOLUTION BP**  
 6% solution (20 vols)

- 13.11.7. Preparations for promotion of wound healing  
 No preparations are included in the Formulary

- 
- 13.12. **ANTIPERSPIRANTS**  
 No preparations are included in the Formulary

- 
- 13.13. **TOPICAL CIRCULATORY PREPARATIONS**  
 No preparations are included in the Formulary

## 14. IMMUNOLOGICAL PRODUCTS AND VACCINES

- 
- 14.1. **ACTIVE IMMUNITY**

- 
- 14.2. **PASSIVE IMMUNITY**

- 
- 14.3. **STORAGE AND USE**

- 
- 14.4. **VACCINES AND ANTISERA**  
 See BNF for Children and The Green Book for guidance relating to vaccines



**14.5. IMMUNOGLOBULINS**

Human Normal Immunoglobulin is available according to indications identified in the "Clinical Guideline for Immunoglobulin Use" and upon receipt of a completed request. [Click here](#) for more details.

**TETANUS IMMUNOGLOBULIN**

250units injection (specialist request only)

**VARICELLA ZOSTER IMMUNOGLOBULIN**

250mg injection (specialist request only)

**HEPATITIS IMMUNOGLOBULIN**

500units injection (specialist request only)

**14.6. INTERNATIONAL TRAVEL**

No preparations are included in the Formulary

**15. ANAESTHESIA****15.1. GENERAL ANAESTHESIA****15.1.1. Intravenous anaesthetics****ETOMIDATE**

2mg/ml injection (10ml amp)

Restricted to specialist use

**KETAMINE**

200mg/20ml, 500mg/5ml and 500mg/10ml injection

Restricted to specialist use

**PROPOFOL**

10mg/ml (1%) injection (emulsion)

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Restricted to specialist use

**THIOPENTAL SODIUM**

500mg injection

Restricted to specialist use

## 15.1.2. Inhalational anaesthetics

**HALOTHANE<sup>SP,P</sup>**

Restricted to specialist use

**ISOFLURANE**

Restricted to specialist use

**SEVOFLURANE**

Restricted to specialist use

**DESFLURANE**

Restricted to specialist use

**NITROUS OXIDE**

Restricted to specialist use

**EQUANOX<sup>®</sup>**

50% nitrous oxide and 50% oxygen

## 15.1.3. Antimuscarinic drugs

**ATROPINE SULPHATE**

400, 600microgram injection

Restricted to specialist use

**GLYCOPYRRONIUM BROMIDE**

200microgram/ml injection

Restricted to specialist use

**HYOSCINE HYDROBROMIDE**

400microgram injection

Restricted to specialist use

## 15.1.4. Sedative and analgesic peri-operative drugs

## 15.1.4.1. Anxiolytics, neuroleptics and antihistamines

**ALIMEMAZINE**

30mg/5ml syrup

Restricted to specialist use only for sedative purposes.

**CHLORPROMAZINE**

25mg/ml injection

**DIAZEPAM**

10mg/2ml injection for infusion

10mg/2ml emulsion injection

**LORAZEPAM**

4mg/ml injection

**MIDAZOLAM**

2mg/ml injection

**PROMETHAZINE HYDROCHLORIDE**

25mg/ml injection

**TEMAZEPAM**

10mg/5ml oral solution

## 15.1.4.2. Non-opioid analgesics

**DICLOFENAC**

75mg/3ml injection

12.5mg, 25mg, 50mg, 100mg suppositories

## 15.1.4.3. Opioid analgesics

**ALFENTANIL**

500microgram/ml injection

**FENTANYL**

50microgram/ml injection

**MORPHINE SULPHATE**

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500microgram/ml injection

10mg/ml, 15mg/ml, 30mg/ml injection

**PETHIDINE HYDROCHLORIDE**

50mg/ml, 100mg/2ml injection

**REMIFENTANIL**

1mg injection

## 15.1.5. Neuromuscular blocking drugs

**ATRACURIUM BESILATE**

4mg/ml injection

**PANCURONIUM BROMIDE**

4mg/2ml injection

**ROCURONIUM BROMIDE**

4mg/ml injection

**SUXAMETHONIUM CHLORIDE**

100mg/2ml injection

**VECURONIUM BROMIDE**

10mg vial

## 15.1.6. Anticholinesterases used in anaesthesia

**NEOSTIGMINE METILSULFATE**

2.5mg/ml injection

**GLYCOPYRRONIUM-NEOSTIGMINE**

2.5mg neostigmine, 500microgram glycopyrronium

## 15.1.7. Antagonists for central and respiratory depression

**DOXAPRAM**

100mg/5ml injection

**FLUMAZENIL**

100microgram/ml injection

**NALOXONE HYDROCHLORIDE**

40microgram/2ml injection

400microgram/ml injection

## 15.1.8. Drugs for malignant hyperthermia

**DANTROLENE SODIUM**

20mg vial

## 15.2. LOCAL ANAESTHESIA

**ETHYL CHLORIDE<sup>P</sup>**

Spray.

**TETRACAINE (AMETHOCAINE)**

4% topical gel

**BUPIVACAINE HYDROCHLORIDE**

0.25%, 0.5% injection

**BUPIVACAINE AND ADRENALINE**

0.25%, 0.5% bupivacaine with 1 in 200,000 adrenaline

**EMLA<sup>®</sup>**

Lidocaine 2.5%, prilocaine 2.5% topical cream

**LIDOCAINE HYDROCHLORIDE**

1%, 2% injection

2% topical gel

4% topical solution

4% cream (LMX4 hospital use only)

10% spray

**LIDOCAINE WITH ADRENALINE**

Lidocaine 1%, 2% with adrenaline 1 in 200,000

## Key to abbreviations

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## APPENDIX 1: EMERGENCY TREATMENT OF POISONING

Advice on the treatment of poisoning is available from the UK National Poisons Information Service (0844 892 0111) or from TOXBASE ([www.toxbase.org](http://www.toxbase.org) - username and password required)

### **ACETYLCYSTEINE**

2g in 10ml injection

### **ACTIVATED CHARCOAL**

1.04g/5ml oral suspension (Actidose-Aqua®)

### **DEFERRIOXAMINE MESILATE**

500mg injection

### **DICOBALT EDETATE**

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15mg/5ml injection (20ml)

**DIMERCAPROL**

50mg/ml injection

**NALOXONE HYDROCHLORIDE**

40microgram/2ml injection

400microgram/ml injection

**SODIUM CALCIUM EDETATE**

200mg/ml injection