

**MFT TRUST FORMULARY****Manchester University**  
NHS Foundation Trust

Oxford Road Campus &amp; Trafford

**BNF Chapter**

<b>Section 1:</b>	<b>Gastro-Intestinal System</b>
<b>Section 2:</b>	<b>Cardiovascular System</b>
<b>Section 3:</b>	<b>Respiratory System</b>
<b>Section 4:</b>	<b>Central Nervous System</b>
<b>Section 5:</b>	<b>Infections</b>
<b>Section 6:</b>	<b>Endocrine System</b>
<b>Section 7:</b>	<b>Obstetrics, gynaecology &amp; urinary tract disorders</b>
<b>Section 8:</b>	<b>Malignant disease &amp; immunosuppression</b>
<b>Section 9:</b>	<b>Nutrition &amp; blood</b>
<b>Section 10:</b>	<b>Musculoskeletal &amp; Joint Diseases</b>
<b>Section 11:</b>	<b>Eye</b>
<b>Section 12:</b>	<b>Ear, nose &amp; oropharynx</b>
<b>Section 13:</b>	<b>Skin</b>
<b>Section 14:</b>	<b>Immunological products &amp; vaccines</b>
<b>Section 15:</b>	<b>Anaesthesia</b>

**Version 6.8 (October 2018)****NICE** National Institute for  
Health and Care Excellence

Prescribers must always bear in mind when prescribing medicines recommended as "treatment options" by NICE, that this is an opportunity for the clinician and the patient to consider and discuss its use alongside other potential treatment options available.

## Formulary status definitions

**Formulary** (OK to be prescribed - but after any 1<sup>st</sup> or 2<sup>nd</sup> line options)

1<sup>st</sup> line formulary (when there are few formulary options, this is the 1<sup>st</sup> choice)

2<sup>nd</sup> line formulary (when there are few formulary options, this is the 2<sup>nd</sup> choice)

1<sup>st</sup> line agent provided, the drug choice appears in alphabetical order.

Where there is no preferred

1st line medicines for certain therapeutic groups and any restrictions placed upon prescribing are indicated in the box after the medicine name. Where modified release preparations of a formulary drug are available a comment will clarify its status. Newly licensed modified release preparations of existing formulary drugs will remain non-formulary until a review is carried out and recommendations are published. Where published guidance from NICE, MTRAC or the CSM is available, a reference to this is made either in the box after the medicine name or under the section title. Prescribing guidance issued by the Area Prescribing Committee is also included where it is available.



## PCT Red/Amber/Green classifications



### Adult RAG DNP/ GREY list

### Paediatric RAG list

Red

Drugs designated red are considered to be specialist medicines and prescribing responsibility for these medicines should normally remain with the consultant or specialist clinician. These drugs should not be initiated or prescribed in primary care. It is recommended that the supply of these specialist medicines should be organised via the hospital pharmacy, this may include arranging for supply via a home care company. These drugs should not be initiated or prescribed in primary care. It is recommended that the supply of these specialist medicines should be organised via the hospital pharmacy, this may include arranging for supply via a home care company.

Amber

Drugs designated amber are suitable for shared care arrangements under a shared care protocol. Prescribing may be transferred from secondary to primary care once the patient is stabilised and agreed shared care arrangements have been established. Alternatively primary care may initiate under the supervision of secondary care if this option is given in the shared care document. It is recommended that shared care arrangements should be drawn up following local discussion and agreement by prescribing parties.

Green

Drugs designated green are suitable for initiation (unless specified otherwise) and ongoing prescribing within primary care.

Green

specialist initiation

Drugs designated green with specialist initiation are suitable for on-going prescribing within primary care. Little or no monitoring is required. Transfer of prescribing should occur after initiation and an initial review (unless specified) in secondary care.

Green

following specialist recommendation

For drugs that can be initiated by primary care following written or verbal advice from a specialist and can then subsequently be safely prescribed in primary care with little or no monitoring required.

Unlicensed:

**U**

Unlicensed indications are automatically classified as red unless designated otherwise on the list below. If a medicine is unlicensed this should be highlighted in the template as follows: drug name<sup>U</sup>

## Glossary:

**MMC** Medicines Management Committee decision tables (Oxford Road Campus & Trafford)

**emc** Summary of Product Characteristics

**BNF** British National Formulary (BNF)

**BNF for children** British National Formulary for Children (BNFC)

**NICE** NICE guidance

**PbR X** Payment by Results high cost excluded drug

**GMMMG** GMMMG formulary links

## PCT Guidelines

Greater Manchester Medicines Management Group FORMULARY



GMMMG Adult **Red/Amber/Green**; DNP and Grey Drug List

GMMMG Paediatric **Red/Amber/Green**; DNP and Grey Drug List

GMMMG Approved Shared Care Guidelines

## Useful Links

All Wales Medicines Strategy Group

British HIV Association (BHIVA)

British National Formulary (**No password required**)

British National Formulary for Children (**No password required**)

Committee on Safety of Medicines (CSM)

electronic Medicines Compendium (eMC)

General Pharmaceutical Council (GPhC)

Greater Manchester Medicines Management Group (GMMMG)

Medicines and Healthcare products Regulatory Agency (MHRA)

Midlands Therapeutics Review and Advisory Committee (MTRAC)

National Institute for Health and Clinical Excellence (NICE)

National Patient Safety Agency (NPSA)

National Prescribing Centre (NPC)


NHS Evidence

NICE Pathways

Scottish Medicines Consortium (SMC)

UK Medicines Information (UKMi)

# Section 1: Gastro-Intestinal System

Supported by the   
formulary ([click here](#))

## 1.1 Dyspepsia & gastro-oesophageal reflux disease

1.1.1 Antacids & Simeticone

1.1.2 Compound Alginates & Proprietary Indigestion Preparations

## 1.2 Anti-spasmodics & other drugs altering gut motility

Antimuscarinics

Other Antispasmodics

Motility Stimulants

## 1.3 Antisecretory drugs & mucosal protectants

1.3.1 H<sub>2</sub>-Receptor Antagonists

1.3.3 Chelates & Complexes

1.3.5 Proton Pump Inhibitors

## 1.4 Acute diarrhoea

1.4.2 Antimotility Drugs

## 1.5 Chronic bowel disorders

1.5.1 Aminosalicylates

1.5.2 Corticosteroids & Enemas

1.5.3 Drugs Affecting the Immune Response

Cytokine Modulators

## 1.6 Laxatives

1.6.1 Bulk-forming Laxatives

1.6.2 Stimulant Laxatives

1.6.3 Faecal Softeners

1.6.4 Osmotic Laxatives

1.6.5 Bowel Cleansing Preparation

1.6.6 Peripheral opioid-receptor antagonists

1.6.7 Other drugs used in constipation

## 1.7 Local preparations for anal & rectal disorders

1.7.2 Compound Haemorrhoidal Preparations with Corticosteroids

1.7.4 Management of anal fissures

## 1.9 Drugs affecting intestinal secretions

1.9.1 Drugs affecting biliary composition & flow

1.9.2 Bile acid sequestrants

1.9.4 Pancreatin

## 1.10 Miscellaneous preparations

## Trust Guidelines













Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)





















## NICE Guidance

Biosimilar Medicines (KTT15)  
Coeliac disease: recognition, assessment and management (NG20)  
Faecal Incontinence (CG49)  
Irritable Bowel Syndrome (CG61)  
Diarrhoea and vomiting in children under 5 (CG84)  
Constipation in children and young people (CG99)  
Acute upper GI bleeding (CG141)  
Crohn's disease (CG152)  
Ulcerative colitis (CG166)  
Dyspepsia and gastro-oesophageal reflux disease (CG184)  
Ulcerative colitis (acute exacerbations) - infliximab (TA163)  
Crohn's disease - infliximab & adalimumab (TA187)  
Constipation (women) - prucalopride (TA211)  
Lubiprostone for treating chronic idiopathic constipation (TA318)  
Infliximab, adalimumab & golimumab for treating moderately to severely active ulcerative colitis (TA329)  
Vedolizumab for treating moderately to severely active ulcerative colitis (TA342)  
Naloxegol for treating opioid-induced constipation (TA345)  
Vedolizumab for treating moderately to severely active Crohn's disease after prior therapy (TA352)  
Obeticholic acid for treating primary biliary cholangitis (TA443)  
Ustekinumab for moderately to severely active Crohn's disease after previous treatment (TA456)  
Eluxadoline for treating irritable bowel syndrome with diarrhoea (TA471)

## GMMM Formulary

Formulary Homepage  
Chapter 1: Gastro-Intestinal system (Complete)  
GMMM Adult [Red/Amber/Green](#); DNP and Grey Drug List  
GMMM Paediatric [Red/Amber/Green](#) Drug List

1.1 Dyspepsia & gastro-oesophageal reflux disease		GMMMG
<b>1.1.1 Antacids &amp; Simeticone</b>		
<b>Aluminium &amp; Magnesium Containing Antacids</b>		
Co-magaldrox 195/220 suspension <sup>SF</sup>	  	<b>1<sup>st</sup> line use</b>
Magnesium Trisilicate suspension	  	
<b>Simeticone alone (activated dimeticone)</b>		
Simeticone (Infacol®) 40mg/mL liquid	  	<b>RESTRICTED Paediatric use only</b>
<b>1.1.2 Compound Alginates &amp; Proprietary Indigestion Preparations</b>		
Alginate raft-forming oral suspensions <sup>SF</sup>	  	

1.2 Anti-spasmodics & other drugs altering gut motility		GMMMG
<b>Antimuscarinics</b>		
Hyoscine Butylbromide 10mg tablets	  	
Glycopyrronium Bromide (Sialanar®) 400 micrograms/mL	 <b>MMC</b>  	
<b>Other Antispasmodics</b>		
Mebeverine Hydrochloride 135mg tablets	  	<b>1<sup>st</sup> line use</b>
Peppermint oil	  	
<b>Motility Stimulants</b>		
Metoclopramide 10mg tablets (see also section 4.6)	  	<b>1<sup>st</sup> line use</b>
Domperidone 10mg tablets (see also section 4.6)	   	<b>Use where 1<sup>st</sup> line unsuitable</b> 

## 1.3 Antisecretory drugs & mucosal protectants



### 1.3.1 H<sub>2</sub>-receptor antagonists

Ranitidine

150mg; 300mg tablets



### 1.3.3 Chelates & Complexes

Sucralfate

1g tablets



Bismuth Subsalicylate (Pepto-Bismol®)

262.5mg chewable tablets

MMC



**RESTRICTED - Adults, H. Pylori eradication regime**

### 1.3.5 Proton Pump Inhibitors

Omeprazole

10mg; 20mg; 40mg capsules

NICE



Lansoprazole

15mg; 30mg capsules

NICE



**Other PPIs are not available at this Trust**



## 1.4 Acute diarrhoea



### 1.4.2 Antimotility Drugs

Loperamide hydrochloride

2mg capsules; 1mg/5mL syrup<sup>SF</sup>

NICE

BNF  
for children

BNF emc+

1<sup>st</sup> line use

Codeine Phosphate

15mg; 30mg & 60mg tablets

BNF  
for children

BNF emc+

**RESTRICTED**  
Adults - high output stomas

Eluxadoline

Green

75mg; 100mg tablets

NICE

MMC

BNF  
for children

BNF emc+

**RESTRICTED** Gastro. Consultants  
only in line with NICE

## 1.5 Chronic bowel disorders



### 1.5.1 Aminosalicylates

Mesalazine (prescribe by brand name)



Balsalazide Sodium

750mg capsules



### 1.5.2 Corticosteroids & Enemas

Prednisolone

5mg tablets



**1<sup>st</sup> line use**

Budesonide (Budenofalk®)

3mg capsules



Budesonide

3mg CR capsules



**RESTRICTED - Adults  
Gastro. Consultants only**

Hydrocortisone

foam enema



Short chain fatty acid enema (Nutricol®)



**RESTRICTED - Adults  
Gastro. Consultants only**

### 1.5.3 Drugs Affecting the Immune Response

Azathioprine

Amber

see also section 8.2.1



**1<sup>st</sup> line use**

Ciclosporin (oral and I.V. preparations)

Amber

see also section 8.2.2



Mercaptopurine

Amber

see also section 8.1.3



Methotrexate (s/c and oral preparations)

Amber

see also section 10.1.3



Vedolizumab

Red



**RESTRICTED Gastro. Consultants in  
line with NICE TA342 & TA352**

### Cytokine Modulators

Adalimumab

Red

see also sections 10.1.3 & 13.5.3



**RESTRICTED Gastro. Consultants for  
Crohn's Disease & Ulcerative colitis as  
per NICE**

Infliximab

Red

see also sections 10.1.3 & 13.5.3



**RESTRICTED Gastro. Consultants for  
Crohn's Disease & Ulcerative colitis as  
per NICE**

Golimumab

Red

see also sections 10.1.3



**RESTRICTED Gastro. Consultants for  
Crohn's Disease & Ulcerative colitis as  
per NICE**

Ustekinumab

Red

see also sections 10.1.3
















**RESTRICTED Gastro. Consultants for  
Crohn's Disease as per NICE**

### ICAM-1 Inhibitor

Alicaforsen



**RESTRICTED Gastro. Consultants  
only for pouchitis**

1.6 Laxatives		GMMMG
<b>1.6.1 Bulk-forming Laxatives</b>		
Ispaghula husk 3.5g sachets	  	<b>1<sup>st</sup> line use</b>
<b>1.6.2 Stimulant Laxatives</b>		
Docusate Sodium	  	<b>1<sup>st</sup> line use</b>
Senna	  	<b>1<sup>st</sup> line use</b>
Bisacodyl	  	
Glycerol	  	
Sodium Picosulfate	  	
Co-Danthramer	  	<b>RESTRICTED - Adults, Palliative Care only</b>
Co-Dantrusate	  	<b>RESTRICTED - Adults, Palliative Care only</b>
<b>1.6.3 Faecal Softeners</b>		
Arachis Oil	  	
<b>1.6.4 Osmotic Laxatives</b>		
Lactulose	  	<b>1<sup>st</sup> line use</b>
Macrogols (Polyethylene glycols)	 <b>MMC</b>  	<b>2<sup>nd</sup> / 3<sup>rd</sup> line use Rehab patients / paediatrics</b>
Phosphates (Rectal) 128mL enema	  	
Sodium Citrate (Rectal) 450mg micro-enema	  	
<b>1.6.5 Bowel Cleansing Preparations</b>		
Sodium Picosulfate with Magnesium Citrate (Picolax®) oral powder	  	<b>1<sup>st</sup> line use</b>
Macrogols (Klean-Prep® & Moviprep®) oral powder	  	
<b>1.6.6 Peripheral opioid-receptor antagonists</b>		
Methylnaltrexone Bromide (injection)	  	<b>RESTRICTED - Adults, Palliative Care only</b>
Naloxegol	 <b>NICE</b> <b>MMC</b>  	<b>RESTRICTED - Adults only in line with TA345</b>
<b>1.6.7 Other drugs used in constipation</b>		
Prucalopride 1mg; 2mg tablets	 <b>NICE</b> <b>MMC</b>  	<b>RESTRICTED - Adult women, Gastro. Consultants only</b>
Linaclotide <span style="background-color: green; color: white; padding: 2px;">Green</span> 290 micrograms capsules	 <b>MMC</b>  	<b>RESTRICTED - 3<sup>rd</sup> line use Adults, Gastro. Consultants only</b>

Lubiprostone

24microgram capsules



**RESTRICTED - Adults, Gastro.  
Consultants only in line with NICE**

## 1.7 Local preparations for anal & rectal disorders



### 1.7.2 Compound Haemorrhoidal Preparations with Corticosteroids

Anusol®

ointment



Proctosedyl®

ointment



Scheriproct®

ointment; suppositories



### 1.7.4 Management of anal fissures

Glyceryl Trinitrate (Rectogesic®)

0.4% ointment
























**1<sup>st</sup> line for anal fissure**

Diltiazem Hydrochloride



2% cream



1.9 Drugs affecting intestinal secretions		GMMMG
<b>1.9.1 Drugs affecting biliary composition &amp; flow</b>		
Ursodeoxycholic acid 150mg tablets	   	<b>1<sup>st</sup> line use</b>
Obeticholic acid 5mg; 10mg tablets	     	<b>RESTRICTED Hepatology Consultants only 2<sup>nd</sup> line per TA443</b>
<b>1.9.2 Bile acid sequestrants</b>		
Colestyramine powder 4g sachet (see also section 2.12)	  	<b>1<sup>st</sup> line use</b>
Colesevelam Hydrochloride 625mg tablets (see also section 2.12)	    	<b>RESTRICTED adults. Gastro &amp; Lipid Clinic Consultants only</b>
<b>1.9.4 Pancreatin</b>		
Pancreatin capsules	  	

## 1.10 Miscellaneous preparations

Glucarpidase (Voraxaze®)




1,000 unit injection (see also sections 8.4, 10.4 & 13.14)

MMC



**RESTRICTED 2<sup>nd</sup> line rescue therapy  
in patients with delayed methotrexate  
excretion**

## Section 2: Cardiovascular System

Supported by the   
formulary ([click here](#))

### 2.1 Positive inotropic drugs

- 2.1.1 Cardiac Glycosides
- 2.1.2 Phosphodiesterase Inhibitors

### 2.2 Diuretics

- 2.2.1 Thiazides & Related Diuretics
- 2.2.2 Loop Diuretics
- 2.2.3 Potassium-sparing Diuretics & Aldosterone Antagonists
- 2.2.4 Potassium-sparing Diuretics with other Diuretics
- 2.2.5 Osmotic Diuretics

### 2.3 Anti-arrhythmic drugs

- 2.3.2 Drugs for Arrhythmias

### 2.4 Beta-adrenoceptor blocking drugs

### 2.5 Hypertension & heart failure

- 2.5.1 Vasodilator Antihypertensive Drugs
- 2.5.2 Centrally Acting Antihypertensive Drugs
- 2.5.4 Alpha-Adrenoceptor Blocking Drugs
- 2.5.5 Drugs Affecting the Renin-Angiotensin System
  - 2.5.5.1 Angiotensin-Converting Enzyme (ACE) Inhibitors
  - 2.5.5.2 Angiotensin-II Receptor Antagonists

### 2.6 Nitrates, calcium-channel blockers & other antianginals

- 2.6.1 Nitrates
- 2.6.2 Calcium-channel Blockers
- 2.6.3 Other Antianginal Drugs
- 2.6.4 Peripheral Vasodilators & Related Drugs

### 2.7 Sympathomimetics

- 2.7.1 Inotropic Sympathomimetics
- 2.7.2 Vasoconstrictor Sympathomimetics
- 2.7.3 Cardiopulmonary Resuscitation

### 2.8 Anticoagulants & protamine

- 2.8.1 Parenteral Anticoagulants
- 2.8.2 Oral Anticoagulants
- 2.8.3 Protamine Sulfate

### 2.9 Antiplatelet drugs

### 2.10 Stable angina, acute coronary syndromes & fibrinolysis

- 2.10.2 Fibrinolytic Drugs

### 2.11 Antifibrinolytic drugs & haemostatics

### 2.12 Lipid-regulating drugs

### 2.13 Local sclerosants

### 2.14 Miscellaneous preparations



## Trust Guidelines


















Adult medicines and prescribing guidelines  
 Paediatric medicines and prescribing guidelines  
 Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)































## NICE Guidance

Prophylaxis against infective endocarditis (CG64)  
 Stroke (CG68)  
 Familial hypercholesterolaemia (CG71)  
 Venous thromboembolism - reducing the risk (CG92)  
 Unstable angina and NSTEMI (CG94)  
 Chest pain of recent onset (CG95)  
 Hypertension in pregnancy (CG107)  
 Chronic heart failure (CG108) (replaces CG5)  
 Stable angina (CG126)  
 Hypertension (CG127)  
 Myocardial infarction with ST-segment elevation (CG167)  
 Myocardial infarction: secondary prevention (CG172)  
 Atrial fibrillation: the management of atrial fibrillation (CG180)  
 Lipid modification: CV risk assessment and the modification of blood lipids for the 1ry & 2ry prevention of CVD (CG181)  
 Acute coronary syndromes - glycoprotein IIb/IIIa inhibitors (review) (TA47) (partially updated by CG94)  
 Myocardial infarction - thrombolysis (TA52)  
 Guidance on the use of coronary artery stents (TA71) (partially updated by TA152)  
 Myocardial perfusion scintigraphy for the diagnosis and management of angina & MI (TA73) (partially updated by TA95 & TA126)  
 Hypercholesterolaemia - Ezetimibe (TA132)  
 Coronary artery disease - drug eluting stents (TA152)  
 Venous thromboembolism - dabigatran (TA157)  
 Rivaroxaban for the prevention of VTE (TA170)  
 Atrial Fibrillation - dronedarone (TA197)  
 Vascular disease - clopidogrel and dipyridamole (TA210)  
 Peripheral arterial disease - cilostazol, naftidrofuryl oxalate, pentoxifylline & inositol nicotinate (TA223)  
 Myocardial infarction (persistent ST-segment elevation) - bivalirudin (TA230)  
 Acute coronary syndromes - ticagrelor (TA236)  
 Venous thromboembolism - apixaban (hip and knee surgery) (TA245)  
 Atrial fibrillation - dabigatran etexilate (TA249)  
 Atrial fibrillation (stroke prevention) - rivaroxaban (TA256)  
 Venous thromboembolism (treatment & long term 2ry prevention) - rivaroxaban (TA261)  
 Stroke (acute, ischaemic) - alteplase (TA264)  
 Chronic heart failure - ivabradine (TA267)  
 Stroke & systemic embolism (prevention, non-valvular atrial fibrillation) - apixaban (TA275)  
 Pulmonary embolism and recurrent venous thromboembolism - rivaroxaban (TA287)  
 Prasugrel with PCI for treating ACS (review of TA182) (TA317)  
 Dabigatran etexilate for the treatment and 2ry prevention of DVT and/or PE (TA327)  
 Rivaroxaban for preventing adverse outcomes after acute management of acute coronary syndrome (TA335)  
 Apixaban for the treatment and 2ry prevention of DVT and/or PE (TA341)  
 Edoxaban for treating and for preventing deep vein thrombosis and pulmonary embolism (TA354)  
 Edoxaban for preventing stroke and systemic embolism in people with non-valvular atrial fibrillation (TA355)  
 Ezetimibe for treating primary heterozygous-familial and non-familial hypercholesterolaemia (TA385)  
 Sacubitril valsartan for treating symptomatic chronic heart failure with reduced ejection fraction (TA388)  
 Alirocumab for treating primary hypercholesterolaemia and mixed dyslipidaemia (TA393)  
 Evolocumab for treating primary hypercholesterolaemia and mixed dyslipidaemia (TA394)  
 Ticagrelor for preventing atherothrombotic events after myocardial infarction (TA420)

## GMMM Formulary

Formulary Homepage  
 Chapter 2: Cardiovascular system (Complete)  
 GMMM Adult [Red](#)/[Amber](#)/[Green](#); DNP and Grey Drug List  
 GMMM Paediatric [Red](#)/[Amber](#)/[Green](#) Drug List

2.1 Positive inotropic drugs		GMIMG
<b>2.1.1 Cardiac Glycosides</b>		
Digoxin	  	<b>1<sup>st</sup> line use</b>
Digoxin-specific antibody	  	
<b>2.1.2 Phosphodiesterase Inhibitors</b>		
Enoximone (Perfan®) 5mg/1mL injection	  	
Milrinone (Primacor®) 10mg/10mL injection	   	<b>1<sup>st</sup> line use Paediatrics</b>
Levosimendan (Simdax®) 12.5mg/5mL Injection	   	<b>RESTRICTED adults. Cardiology ITU Consultant only</b>



































2.2 Diuretics		GMMMG
<b>2.2.1 Thiazides &amp; Related Diuretics</b>		
Bendroflumethiazide	  	<b>1<sup>st</sup> line use</b>
Chlortalidone	  	
Metolazone	  	<b>2<sup>nd</sup> line use with loop diuretic</b>
<b>2.2.2 Loop Diuretics</b>		
Furosemide	  	<b>1<sup>st</sup> line use</b>
Bumetanide	  	<b>2<sup>nd</sup> line use</b>
<b>2.2.3 Potassium-sparing Diuretics &amp; Aldosterone Antagonists</b>		
Amiloride hydrochloride	  	<b>1<sup>st</sup> line use</b>
Spironolactone	  	<b>1<sup>st</sup> line use</b>
Eplerenone	 <b>MMC</b>  	<b>RESTRICTED adults. Cardiology Consultant only</b>
<b>2.2.4 Potassium-sparing Diuretics with other Diuretics</b>		
Co-amilofruse	  	<b>1<sup>st</sup> line use</b>
<b>2.2.5 Osmotic Diuretics</b>		
Mannitol	  	

## 2.3 Anti-arrhythmic drugs



### 2.3.2 Drugs for Arrhythmias

Adenosine				  	
Amiodarone Hydrochloride	Green			  	<a href="#">I.V. guidelines</a>
Disopyramide				  	
Flecainide Acetate	Red	Paeds - until stabilised then	Green	  	<a href="#">I.V. guidelines</a>
Lidocaine (Lignocaine) Hydrochloride				  	
Mexiletine	U			  	<b>RESTRICTED</b> adults. Cardiology Consultant only
Propafenone Hydrochloride				  	
Dronedarone	Green			   	<b>RESTRICTED</b> adults. Cardiology Consultant only, in line with TA197

2.4 Beta-adrenoceptor blocking drugs		GMVMMG
		NICE CG108
		NICE CG127
		NICE CG180
2.4 Beta-Adrenoceptor Blocking Drugs		
Atenolol	  	
Bisoprolol Fumarate	 <b>MMC</b>  	<b>RESTRICTED</b> adults. Cardiology Consultant only
Carvedilol <b>ALSO 2ND LINE FOR VARICEAL BLEED</b>	 <b>MMC</b>  	<b>RESTRICTED</b> adults. Cardiology Consultant only
Esmolol Hydrochloride	  	<b>RESTRICTED</b> /i.v. only
Etilefrine Hydrochloride 	 <b>MMC</b>  	<b>RESTRICTED</b> adults. Haematology Consultants - SCD
Labetalol Hydrochloride	  	<b>RESTRICTED</b> orally in pregnancy
Metoprolol Tartrate	  	
Nadolol	 <b>MMC</b>  	<b>RESTRICTED</b> paed. ventricular arrhythmias in long QT syndrome
Nebivolol	  	
Propranolol Hydrochloride	  	<b>RESTRICTED</b> not in Cardiology
Sotalol Hydrochloride	  	

## 2.5 Hypertension & heart failure



NICE CG108

NICE CG127






















NICE CG180

### 2.5.1 Vasodilator Antihypertensive Drugs

NHSE PAH

Hydralazine Hydrochloride		 <b>BNF</b> <b>emc</b>	<b>1<sup>st</sup> line use</b>
Minoxidil		 <b>BNF</b> <b>emc</b>	
Bosentan <b>Red</b>		 <b>PbR X</b> <b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED PAH in line with NHSE</b>
Sildenafil (Revatio®) <b>Red</b> green for erectile dysfunction		 <b>PbR X</b> <b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED PAH in line with NHSE</b>
Macitentan (Opsumit®) <b>Red</b>		 <b>PbR X</b> <b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED PAH in line with NHSE</b>
Tadalafil (Adcirca®) <b>Red</b>		 <b>PbR X</b> <b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED PAH in line with NHSE</b>
<b>2.5.2 Centrally Acting Antihypertensive Drugs</b>			
Clonidine Hydrochloride		 <b>BNF</b> <b>emc</b>	
Methyldopa		 <b>BNF</b> <b>emc</b>	
Moxonidine 200microgram tablets		 <b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED 3<sup>rd</sup> line use after other treatments fail</b>
<b>2.5.4 Alpha-Adrenoceptor Blocking Drugs</b>			
Doxazosin 1mg; 2mg & 4mg tablets		 <b>BNF</b> <b>emc</b>	<b>1<sup>st</sup> line use</b>
Phenoxybenzamine Hydrochloride 10mg capsules		 <b>BNF</b> <b>emc</b>	<b>RESTRICTED adults. Specialist initiation only</b>
Pentolamine Mesilate injection		 <b>BNF</b> <b>emc</b>	<b>RESTRICTED adults. Specialist use, theatres only</b>
<b>2.5.5 Drugs Affecting the Renin-Angiotensin System</b>			
<b>2.5.5.1 Angiotensin-Converting Enzyme (ACE) Inhibitors</b>			
Ramipril 1.25mg; 2.5mg; 5mg & 10mg capsules		 <b>BNF</b> <b>emc</b>	<b>1<sup>st</sup> line use</b>
Captopril 12.5mg; 25mg & 50mg tablets		 <b>BNF</b> <b>emc</b>	<b>RESTRICTED Paediatrics only</b>
Lisinopril 2.5mg; 5mg; 10mg & 20mg tablets		 <b>BNF</b> <b>emc</b>	<b>RESTRICTED Renal Medicine only</b>
Perindopril 2mg; 4mg & 8mg tablets		 <b>BNF</b> <b>emc</b>	

**2.5.5.2 Angiotensin-II Receptor Antagonists**

<p>Candesartan Cilexetil</p> <p>2mg; 4mg; 8mg; 16mg &amp; 32mg tablets</p>	   	<p><b>1<sup>st</sup> line use hypertension</b></p>
<p>Losartan Potassium</p> <p>12.5mg; 25mg; 50mg &amp; 100mg tablets</p>	  	<p><b>2<sup>nd</sup> line use hypertension</b></p>
<p>Irbesartan</p> <p>75mg; 150mg &amp; 300mg tablets</p>	   	<p><b>2<sup>nd</sup> line use hypertension</b></p>
<p>Valsartan</p> <p>40mg; 80mg &amp; 160mg capsules</p>	   	<p><b>2<sup>nd</sup> line use hypertension</b></p>
<p>Sacubitril / Valsartan</p> <p>24mg/26mg; 49mg/51mg &amp; 97mg/103mg tablets</p>	     	<p><b>in line with TA388</b></p>

## 2.6 Nitrates, calcium-channel blockers & other antianginals



### 2.6.1 Nitrates

Glyceryl Trinitrate



Isosorbide Mononitrate



### 2.6.2 Calcium-channel Blockers

Amlodipine



**1<sup>st</sup> choice dihydropyridine**

Diltiazem (prescribe by brand name)



**1<sup>st</sup> choice non-dihydropyridine**

Nifedipine (prescribe by brand name)



**2<sup>nd</sup> choice dihydropyridine**

Verapamil Hydrochloride



**2<sup>nd</sup> choice non-dihydropyridine**

Nimodipine



**RESTRICTED** subarachnoid haemorrhage *i.v.* then oral

### 2.6.3 Other Antianginal Drugs

Nicorandil



**1<sup>st</sup> line use**

Ivabradine

Green



**RESTRICTED** adults 2<sup>nd</sup> line. Cardiology Consultant only



Ranolazine



**RESTRICTED** adults 3<sup>rd</sup> line angina patients not suitable for surgery

### 2.6.4 Peripheral Vasodilators & Related Drugs

Naftidrofuryl Oxalate



Defibrotide

Red



**RESTRICTED** Specialist use only in line with NHSE

NHSE Commissioning





















## 2.7 Sympathomimetics

### 2.7.1 Inotropic Sympathomimetics

Dobutamine	  	<b>RESTRICTED /I.V. Specialist use only</b>
Dopamine Hydrochloride	  	<b>RESTRICTED /I.V. Specialist use only</b>
Dopexamine	  	<b>RESTRICTED /I.V. Specialist use only</b>
Isoprenaline	  	<b>RESTRICTED /I.V. Specialist use only</b>










































### 2.7.2 Vasoconstrictor Sympathomimetics




































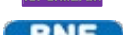

Ephedrine Hydrochloride	  	<b>RESTRICTED /I.V. Specialist use only</b>
Metaraminol 	  	
Midodrine  until stabilised then 	   <b>MMC</b>	<b>RESTRICTED Specialist use Cardiology.</b>
Noradrenaline acid tartrate	  	<b>RESTRICTED /I.V. Specialist use only</b>
Phenylephrine Hydrochloride	  	<b>RESTRICTED /I.V. Specialist use only</b>


















### 2.7.3 Cardiopulmonary Resuscitation

Adrenaline / Epinephrine	  	
--------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

2.8 Anticoagulants & protamine		GMMMG
2.8.1 Parenteral Anticoagulants		NICE CG92
ACD-A Anticoagulant Citrate Dextrose solution	MMC BNF emc	<b>RESTRICTED Specialist use only CRRT</b>
Dalteparin Sodium see below	BNF for children MMC BNF emc	<b>1<sup>st</sup> line LMWH</b>
Epoprostenol <span style="background-color: red; color: white; padding: 2px;">Red</span>	PbR X BNF for children BNF emc	<b>RESTRICTED / I.V. Specialist use only</b>
Heparin	BNF for children BNF emc	<a href="#">See Heparin Infusion chart</a>
Bivalirudin	BNF for children NICE MMC BNF emc	<b>RESTRICTED adults. Cardiac Catheter Lab only.</b>
Fondaparinux Sodium	BNF for children MMC BNF emc	<b>RESTRICTED adults. Haematology Consultants only.</b>
Tinzaparin Sodium see below	BNF for children MMC BNF emc	<b>RESTRICTED Obs &amp; Gynae; ACS &amp; VTE in Renal impairment only. Paeds: haemodialysis</b>
Enoxaparin Sodium see below	BNF for children MMC BNF emc	<b>RESTRICTED ACS &amp; VTE in Renal impairment only.</b>
Argatroban monohydrate	BNF for children MMC BNF emc	<b>RESTRICTED adults. Treatment of HIT</b>
<b>All LMWHs: 1) DVT &amp; PE treatment (initial 2 weeks) as per locally agreed pathway 2) Prophylaxis of VTE in oncology patients on VTE inducing therapy 3) Treatment of DVT in pregnancy 4) Pre-op use as warfarin replacement in high risk patients 5) Post-op prophylaxis (e.g. hips, knees, gen. surgery)</b>		<span style="background-color: red; color: white; padding: 2px;">Red</span>
LMWH's: Extended treatment of VTE in cancer patients as per Christie SCP. LMWH's: Prophylaxis e.g. immobile patients or those at high risk of DVT at home or in care situation.		<span style="background-color: orange; color: white; padding: 2px;">Amber</span>
LMWH's: DVT/PE treatment (full anticoagulation required but warfarin contraindicated). <b>NB</b> warfarin remains 1 <sup>st</sup> line; full stop-start criteria for prescribing must be outlined before passing to primary care. LMWH's: For travel prophylaxis in high risk patients (travelling time over 8 hrs) and only as per national recommendations.		<span style="background-color: green; color: white; padding: 2px;">Green</span>
Tinzaparin: use during pregnancy as per SCP. Pregnancy prophylaxis low risk and regular monitoring not required if baseline tests normal.		<span style="background-color: orange; color: white; padding: 2px;">Amber</span>

<b>2.8.2 Oral Anticoagulants</b>			
Acenocoumarol		  	<b>RESTRICTED</b> warfarin intolerant patients only.
Phenindione		  	
Warfarin Sodium		  	<a href="#">Warfarin dosing chart</a>
Dabigatran Etexilate		    	<b>RESTRICTED</b> in line with NICE guidance
Idarucizumab Praxbind®		   	<b>RESTRICTED</b> reversal of dabigatran in emergency surgery
Rivaroxaban		    	<b>RESTRICTED</b> in line with NICE 
Apixaban		    	<b>RESTRICTED</b> in line with NICE
Edoxaban		    	<b>RESTRICTED</b> in line with NICE
<b>2.8.3 Protamine Sulfate</b>			
Protamine Sulfate		  	

2.9 Antiplatelet drugs		GMMMG
		NICE CG94
Aspirin	  	
Clopidogrel	    	For ACS patients; stroke patients intolerant of aspirin; high-risk patients who've stroked on aspirin
Ticagrelor	    	In combination with aspirin for primary PCI in ACS patients and in line with NICE TA420
Prasugrel	    	<b>RESTRICTED</b> adults. Cardiac Catheter Lab as per NICE
Dipyridamole	    	2 <sup>RY</sup> prevention of stroke in patients already on aspirin
Tirofiban	    	<b>RESTRICTED</b> adults. Cardiac Catheter Lab only (1 <sup>st</sup> line)
Abciximab	   	<b>RESTRICTED</b> adults. Cardiac Catheter Lab only (2 <sup>nd</sup> line)
Eptifibatide	    	<b>RESTRICTED</b> adult patients admitted on this or tirofiban

2.10 Stable angina, ACS & fibrinolysis		GMVMMG
• Stable angina (BNF treatment summary)		
• Acute coronary syndromes (BNF treatment summary)		
• Fibrinolytic Drugs (BNF treatment summary)		NICE CG68
<b>2.10.2 Fibrinolytic Drugs</b>		NICE CG126
Tenecteplase	    	
Streptokinase	   	
Urokinase	  	
Alteplase	    	<b>RESTRICTED</b>

## 2.11 Antifibrinolytic drugs & haemostatics



### 2.11 Antifibrinolytic Drugs & Haemostatics

Etamsylate



Tranexamic acid



Aprotinin

**RESTRICTED**

Aminocaproic acid

**RESTRICTED**

2.12 Lipid-regulating drugs		GMMMG	
<b>Statins</b>			
Simvastatin	NICE	BNF for children BNF emc+	
Atorvastatin	NICE	BNF for children BNF emc+	1 <sup>st</sup> line use
Rosuvastatin	NICE MMC	BNF for children BNF emc+	RESTRICTED Not stocked
Pravastatin Sodium	NICE	BNF for children BNF emc+	RESTRICTED MCSH for cases with potential drug interactions
<b>Bile Acid Sequestrants</b>			
Colestyramine <a href="#">see also section 1.9.2</a>		BNF for children BNF emc+	
Colesevelam Hydrochloride <a href="#">see also section 1.9.2</a>	Green	MMC BNF emc+	RESTRICTED adults. Gastro & Lipid Clinic Consultants only
<b>Fibrates</b>			
Bezafibrate		BNF for children BNF emc+	1 <sup>st</sup> line use
Fenofibrate		BNF for children BNF emc+	2 <sup>nd</sup> line use
<b>Omega-3 fatty acid compounds</b>			
Omega-3-acid ethyl esters		MMC BNF emc+	2 <sup>RY</sup> prevention post MI.
<b>Ezetimibe</b>			
Ezetimibe 10mg tablets	NICE MMC	BNF for children BNF emc+	RESTRICTED adults. Lipid Clinic Consultants only
<b>Lipid-regulating drugs</b>			
Alirocumab (Praluent®)	PbR X NICE MMC	BNF for children BNF emc+	RESTRICTED adults. Lipid Clinic Consultants in line with TA393
Evolocumab (Repatha®)	PbR X NICE MMC	BNF for children BNF emc+	RESTRICTED adults. Lipid Clinic Consultants for homozygous familial hypercholesterolemia / and use in line with TA394

## 2.13 Local sclerosants

### Local Sclerosants

Ethanolamine Oleate



Sodium Tetradecyl Sulfate





**2.14 Miscellaneous preparations**


Ajmaline (Gilurytmal®)

**RESTRICTED** adults. Cardiology  
Consultant only

Regadenoson (Rapiscan®)

**RESTRICTED** adults. Myocardial  
perfusion scans

## Section 3: Respiratory System

Supported by the   
formulary ([click here](#))

### 3.1 Bronchodilators

- 3.1.1 Adrenoceptor Agonists
- 3.1.2 Antimuscarinic Bronchodilators
- 3.1.3 Theophylline
- 3.1.4 Compound Bronchodilator Preparations
- 3.1.5 Peak Flow Meters, Inhaler Devices & Nebulisers
  - Inhaler Devices
  - Nebuliser Diluent

### 3.2 Corticosteroids

- Compound preparations

### 3.3 Cromoglicate & related therapy & leukotriene receptor antagonists

- 3.3.1 Cromoglicate & Related Therapy
- 3.3.2 Leukotriene Receptor Antagonists
- 3.3.3 Phosphodiesterase type-4 inhibitors

### 3.4 Antihistamines, hyposensitisation & allergic emergencies

- 3.4.1 Antihistamines
- 3.4.2 Allergen Immunotherapy
- 3.4.3 Allergic Emergencies

### 3.5 Respiratory stimulants & pulmonary surfactants

- 3.5.1 Respiratory Stimulants
- 3.5.2 Pulmonary Surfactants

### 3.6 Oxygen (refer to oxygen guidelines)

### 3.7 Mucolytics

### 3.8 Aromatic inhalations

### 3.9 Cough preparations

- 3.9.1 Cough Suppressants
  - Cough Suppressants (Palliative Care ONLY)
- 3.9.2 Demulcent & expectorant cough preparations

### 3.10 Systemic Nasal Decongestants

### 3.11 Antifibrotics

## Trust Guidelines








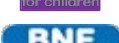





Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)

















## NICE Guidance

Chronic Obstructive Pulmonary Disease update (CG101)  
Idiopathic pulmonary fibrosis (CG163)  
Inhaler devices for children under 5 (TA10)  
Asthma (older children) - inhaler devices (TA38)  
Asthma (in children) - corticosteroids (TA131)  
Asthma (in adults) - corticosteroids (TA138)  
Venom anaphylaxis - immunotherapy pharmlagen (TA246)  
Asthma (severe, persistent, patients aged 6+, adults) - omalizumab (review of TA133, TA201) (TA278)  
Omalizumab for previously treated chronic spontaneous urticaria (TA339)  
Mepolizumab for treating severe refractory eosinophilic asthma (TA431)  
Roflumilast for treating chronic obstructive pulmonary disease (replaces TA244) (TA461)  
Reslizumab for treating severe eosinophilic asthma (TA479)  
Pirfenidone for treating idiopathic pulmonary fibrosis (replaces TA282) (TA504)

## GMMMG Formulary

Formulary Homepage  
Chapter 3: Respiratory system (Complete)  
GMMMG Adult [Red/Amber/Green](#); DNP and Grey Drug List  
GMMMG Paediatric [Red/Amber/Green](#) Drug List

3.1 Bronchodilators		GMMMG
<b>3.1.1 Adrenoceptor agonists</b>		
<b>3.1.1.1 Selective beta<sub>2</sub> agonists</b>		
Salbutamol	MMC   	
Terbutaline Sulfate	  	
Salmeterol	  	
Formoterol Fumarate	MMC   	Asthma BTS step 3 - add-on therapy
<b>3.1.1.2 Other Adrenoceptor Agonists</b>		
Ephedrine Hydrochloride	  	
<b>3.1.2 Antimuscarinic Bronchodilators</b>		
Ipratropium Bromide	  	1 <sup>st</sup> line use
Tiotropium	MMC   	2 <sup>nd</sup> line use COPD maintenance
Acclidinium Bromide Eklira Genuair®	MMC   	2 <sup>nd</sup> line use COPD maintenance
Glycopyrronium Bromide Seebri Breezhaler®	MMC   	2 <sup>nd</sup> line use COPD maintenance
<b>Compound Preparations</b>		
Acclidinium Bromide / Formoterol Fumarate Dihydrate Duaklir Genuair®	MMC    GMMMG	3 <sup>rd</sup> line use COPD maintenance
<b>3.1.3 Theophylline</b>		
Theophylline (prescribe by brand name)	  	1 <sup>st</sup> line use
Aminophylline (prescribe by brand name)	  	
<b>3.1.4 Compound Bronchodilator Preparations</b>		
Ipratropium Bromide / Salbutamol Combivent®	  	
Indacaterol Maleate / Glycopyrronium Bromide Ultibro®	MMC   	3 <sup>rd</sup> line use COPD maintenance
Tiotropium Bromide Monohydrate / Olodaterol Hydrochloride Spiolto Respimat®	MMC   	3 <sup>rd</sup> line use COPD maintenance
Umeclidinium Bromide / Vilanterol Trifenatate Anoro Ellipta®	MMC   	3 <sup>rd</sup> line use COPD maintenance

3.1.5 Peak Flow Meters, Inhaler Devices & Nebulisers		GMMMG asthma inhaler guide
Inhaler Devices		GMMMG asthma management
Volumatic® (spacer inhaler)	  	
Aerochamber® Plus (spacer device)	  	
Able Spacer® (spacer device)	   	
Haleraid® (inhalation aid)	  	
Nebuliser Diluent		
Sodium Chloride 0.9% nebuliser diluent	  	

## 3.2 Corticosteroids



### Corticosteroids

#### Beclometasone Dipropionate

MDI (Clenil Modulite® 50, 100, 200, 250)



#### Beclometasone Dipropionate CFC-free (prescribe by brand name)

MDI (Qvar Easi-Breathe® or Qvar Autohaler® 50, 100)



#### Budesonide

DPI (Easyhaler®; Pulmicort® Turbohaler® 100, 200, 400) & 1mg/2mL nebuliser liquid



#### Fluticasone Propionate

MDI (Flixotide® Evohaler®) 50, 125, 250; (Flixotide® Accuhaler® 50, 100, 250, 500)



### Compound preparations

### GMMMG COPD mgmt pathway

#### Budesonide / Formoterol fumarate

DPI (Symbicort Turbohaler® 100/6, 200/6, 400/12); DPI (Duoresp Spiromax® 160/4.5, 320/9)



Asthma BTS step 3 management

#### Beclometasone Dipropionate / Formoterol fumarate

MDI (Fostair®100/6, 200/6); DPI (Fostair NEXThaler® 100/6, 200/6)



Asthma BTS step 3 management



#### Fluticasone Furoate / Vilanterol Trifenatate

DPI (Relvar Ellipta® 92/22 asthma or copd; 184/22 asthma)



Asthma BTS step 3 management

#### Fluticasone Propionate / Salmeterol

MDI (Sirdupla® 125, 250)



Asthma BTS step 3 management



#### Fluticasone Propionate / Salmeterol

MDI (Seretide® Evohaler® 50, 125, 250)



Asthma BTS step 3 management



#### Fluticasone Propionate / Formoterol Fumarate

MDI (Flutiform® 50/5, 125/5, 250/10)

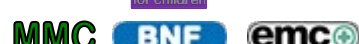


Asthma BTS step 3 management



#### Beclometasone dipropionate / Formoterol fumarate / Glycopyrronium bromide

MDI (Trimbow® 87/5/9 micrograms)

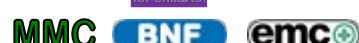


**RESTRICTED - COPD patients who require triple therapy**



#### Fluticasone Furoate / Vilanterol Trifenatate / Umeclidinium Bromide

DPI (Trelegy Ellipta® 92/55/22 micrograms)



**RESTRICTED - COPD patients who require triple therapy**

### 3.3 Cromoglicate & related therapy & leukotriene receptor antagonists



#### 3.3.1 Cromoglicate & Related Therapy

Sodium Cromoglicate



#### 3.3.2 Leukotriene Receptor Antagonists

Montelukast



BTS step 2 or 3 in paediatrics

#### 3.3.3 Phosphodiesterase type-4 inhibitors

Roflumilast



**RESTRICTED**  
as per NICE TA461

### 3.4 Antihistamines, hyposensitisation & allergic emergencies



#### 3.4.1 Antihistamines

##### Non-sedating antihistamines

Cetirizine Hydrochloride



Loratadine



Desloratadine



**RESTRICTED**  
children 1-2 years old

##### Sedating antihistamines

Chlorphenamine Maleate



Hydroxyzine Hydrochloride



Promethazine Hydrochloride



Alimemazine Tartrate



#### 3.4.2 Allergen Immunotherapy

Bee venom extract



**RESTRICTED**  
Immunology Consultants only

Wasp venom extract



**RESTRICTED**  
Immunology Consultants only

Grass & Rye or tree pollen extract



**RESTRICTED**  
Immunology Consultants only

Pollinex®

Omalizumab



**RESTRICTED**  
as per NICE

Mepolizumab



**RESTRICTED**  
as per NICE TA431

Reslizumab



**RESTRICTED**  
as per NICE TA479  
**NOT STOCKED**

Grass Pollen extract



**RESTRICTED**  
Immunology Consultants only

Grazax®

#### 3.4.3 Allergic Emergencies

Adrenaline / Epinephrine (prescribe by brand name)



C1 esterase inhibitor

Berinert®; Cinryze®



**RESTRICTED**  
acute attacks of HAE

Conestat Alfa

Ruconest®



**RESTRICTED** adults  
acute attacks of HAE

Icatibant



**RESTRICTED** adults  
acute attacks of HAE

Oxandrolone



**RESTRICTED** adults  
acute attacks of HAE



### 3.5 Respiratory stimulants & pulmonary surfactants

#### 3.5.1 Respiratory Stimulants

Doxapram Hydrochloride



Caffeine Citrate



**RESTRICTED**  
apnoea in premature babies

#### 3.5.2 Pulmonary Surfactants

Poractant Alfa


















Curosurf®



## 3.6 Oxygen (refer to oxygen guidelines)



3.7 Mucolytics		GMMMG	
Mucolytics			
Sodium Chloride (hypertonic)		  	
Nebusal® 7%			
Carbocisteine		 <b>MMC</b>  	<b>RESTRICTED</b> COPD Consultant / referral only
Dornase Alfa		 <b>MMC</b>  	<b>RESTRICTED</b> Respiratory only
Pulmozyme®			
Ivacaftor		 <b>MMC</b>  	<b>RESTRICTED</b> Paediatric Consultants only for patients aged ≥6 years who have a G551D mutation in the CFTR gene
Kalydeco®			

### 3.8 Aromatic inhalations

#### Aromatic Inhalations

Benzoin Tincture, Compound, BP





















Friars' Balsam



Menthol and Eucalyptus Inhalation, BP 1980



3.9 Cough preparations		
<b>3.9.1 Cough Suppressants</b>		
Codeine Phosphate	  	
Pholcodine	  	
Dextromethorphan hydrobromide	 <b>MMC</b>  	<b>RESTRICTED non-ketotic hyperglycinaemia</b>
<b>Cough Suppressants (Palliative Care ONLY)</b>		
Methadone Hydrochloride	  	
Morphine Hydrochloride	  	
<b>3.9.2 Demulcent &amp; expectorant cough preparations</b>		
Simple Linctus	  	

### 3.10 Systemic nasal decongestants

#### *Systemic Nasal Decongestants*

Pseudoephedrine Hydrochloride



### 3.11 Antifibrotics




#### Antifibrotics

Pirfenidone



**RESTRICTED Respiratory Consultants only. Not stocked**

# Chapter 4: Central Nervous System

Supported by the   
formulary ([click here](#))

## 4.1 Hypnotics & anxiolytics

- 4.1.1 Hypnotics
- 4.1.2 Anxiolytics
- 4.1.3 Barbiturates

## 4.2 Drugs used in psychoses & related disorders

- 4.2.1 Antipsychotic Drugs
- 4.2.2 Antipsychotic Depot Injections
- 4.2.3 Drugs used for mania and hypomania

## 4.3 Antidepressant drugs

- 4.3.1 Tricyclic & Related Antidepressant Drugs
- 4.3.2 Monoamine-Oxidase Inhibitors (MAOIs)
- 4.3.3 Selective Serotonin Re-uptake Inhibitors (SSRIs)
- 4.3.4 Other Antidepressant Drugs

## 4.4 CNS stimulants & drugs used for ADHD

## 4.5 Drugs used in the treatment of obesity

## 4.6 Drugs used in nausea & vertigo

## 4.7 Analgesics

- 4.7.1 Non-Opioid Analgesics
- 4.7.2 Opioid Analgesics
- 4.7.3 Neuropathic Pain
- 4.7.4 Antimigraine Drugs

## 4.8 Antiepileptic drugs

- 4.8.1 Control of the Epilepsies
- 4.8.2 Drugs Used in Status Epilepticus

## 4.9 Drugs used in Parkinsonism & related disorders

- 4.9.1 Dopaminergic Drugs Used in Parkinsonism
- 4.9.2 Antimuscarinic Drugs Used in Parkinsonism
- 4.9.3 Drugs Used in Essential Tremor, Chorea, Tics & Related Disorders

## 4.10 Drugs used in substance dependence

## 4.11 Drugs for dementia



## Trust Guidelines

Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)

## NICE Guidance

Post-traumatic Stress Disorder (CG26)  
Depression in Children & Young People (CG28)  
Obsessive compulsive disorder (OCD) & body dysmorphic disorder (BDD) (CG31)  
Management of Obesity (CG43) (replaces TA22, TA31 & TA46)  
Drug misuse: opioid detoxification (CG52)  
Management of Depression (CG90)  
Depression with a chronic physical health problem (CG91)  
Anxiety (CG113) (replaces CG22)  
Epilepsy (CG137)  
Neuropathic pain - pharmacological management (CG173)  
Psychosis and schizophrenia in adults (CG178)  
Bipolar disorder: the assessment and management in adults, children & young people in 1ry & 2ry care (CG185)  
Eating Disorders: recognition and treatment (NG69)  
Parkinson's disease in adults (NG71)  
Attention deficit hyperactivity disorder: diagnosis and management (NG87)  
Stop smoking interventions and services (NG92)  
Dementia: supporting people with dementia and their carers in health and social care (NG97)  
Motor Neurone Disease: Riluzole (TA20)  
Guidance on the use of zaleplon, zolpidem & zopiclone for short-term management of insomnia (TA77)  
Drug Misuse: Methadone & Buprenorphine (TA114)  
Drug Misuse: Naltrexone (TA115)  
Smoking Cessation: Varenicline (TA123)  
Schizophrenia - aripiprazole (TA213)  
Alzheimer's disease - donepezil, galantamine, rivastigmine & memantine (TA217) (replaces TA111)  
Bipolar disorder (children) - aripiprazole (TA292)  
Nalmefene for reducing alcohol consumption in people with alcohol dependence (TA325)  
Vortioxetine for treating major depressive episodes (TA367)

## GMMMG Formulary

Formulary Homepage  
Chapter 4: Central Nervous system (Complete)  
GMMMG Adult [Red/Amber/Green](#); DNP and Grey Drug List  
GMMMG Paediatric [Red/Amber/Green](#) Drug List

4.1 Hypnotics & anxiolytics		GMMMG
<b>4.1.1 Hypnotics</b>		
<b>Benzodiazepines</b>		
Temazepam	  	
Nitrazepam	  	
<b>Zaleplon, Zolpidem &amp; Zopiclone</b>		
Zopiclone	   	
<b>Chloral &amp; Derivatives</b>		
Chloral Hydrate	  	
Clomethiazole 192mg capsules	  	
<b>Sodium Oxybate</b>		
Sodium Oxybate	    	<b>RESTRICTED 2<sup>nd</sup> line treatment of narcolepsy with cataplexy</b>
<b>Melatonin</b>		
Melatonin see below	  	<b>RESTRICTED</b>
Melatonin (licensed product first line) - Paedatric patients, e.g. sleep disorders, ADHD		
Melatonin (licensed product only) - Adult patients over 55		
<b>4.1.2 Anxiolytics</b>		<b>NICE CG113</b>
<b>Benzodiazepines</b>		
Diazepam	  	
Lorazepam	  	
Oxazepam	  	
<b>Busiprone</b>		
Busiprone Hydrochloride	  	
<b>Others</b>		
Pregabalin	   	<b>RESTRICTED generalised anxiety disorder after standard treatment following NICE has failed.</b>
<b>4.1.3 Barbiturates</b>		
<b>NO DRUGS ARE RECOMMENDED FROM THIS GROUP</b>		 

## 4.2 Drugs used in psychoses & related disorders



### 4.2.1 Antipsychotic Drugs

NICE CG178

Chlorpromazine Hydrochloride



Haloperidol



Levomepromazine



Promazine Hydrochloride



Sulpiride



Trifluoperazine



Zuclopenthixol



### Atypical Antipsychotic Drugs

Risperidone



Olanzapine



Amisulpride



**RESTRICTED** adults.  
Consultant Psychiatrist only

Aripiprazole



**RESTRICTED** - Consultant Paediatric  
Psychiatrist only

Quetiapine



**RESTRICTED** - Consultant initiation -  
schizophrenia patients

Clozapine



### 4.2.2 Antipsychotic Depot Injections

Risperidone



**RESTRICTED**  
Consultant Psychiatrist only

Flupentixol Decanoate



**RESTRICTED**  
Consultant Psychiatrist only

Fluphenazine Decanoate



**RESTRICTED**  
Consultant Psychiatrist only

Haloperidol Decanoate



**RESTRICTED**  
Consultant Psychiatrist only

Zuclopenthixol Decanoate



**RESTRICTED**  
Consultant Psychiatrist only

### 4.2.3 Drugs used for mania and hypomania

Lithium Carbonate



Prescribe by brand name





Lithium Citrate













Prescribe by brand name

Valproic Acid















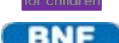






4.3 Antidepressant drugs		GMMMG	
		NICE CG28	
		NICE CG31	
4.3.1 Tricyclic & Related Antidepressant Drugs		NICE CG90	
Tricyclic antidepressants		NICE CG91	
Amitriptyline Hydrochloride		  	
<b>standard release preparations only</b>			
Clomipramine Hydrochloride		  	
<b>standard release preparations only</b>			
Doxepin Hydrochloride		  	
Imipramine Hydrochloride		  	
Lofepramine		  	1 <sup>st</sup> line use
Nortriptyline		  	
Trimipramine		  	
<b>Tricyclic-related antidepressants</b>			
Mianserin Hydrochloride		  	<b>RESTRICTED</b> initiation by Psychiatrist
Trazodone Hydrochloride		  	<b>RESTRICTED</b> initiation by Psychiatrist
<b>4.3.2 Monoamine-Oxidase Inhibitors (MAOIs)</b>			
Isocarboxazid	<b>Red</b>	  	<b>RESTRICTED</b> initiation by Psychiatrist
Phenelzine	<b>Red</b>	  	<b>RESTRICTED</b> initiation by Psychiatrist
Tranlycypromine	<b>Red</b>	  	<b>RESTRICTED</b> initiation by Psychiatrist
10mg tablets			
<b>Reversible Monoamine-Oxidase Inhibitors (MAOIs)</b>			
Moclobemide	<b>Green</b>	  	<b>RESTRICTED</b> initiation by Psychiatrist 2 <sup>nd</sup> line
150mg; 300mg tablets			
<b>4.3.3 Selective Serotonin Re-uptake Inhibitors (SSRIs)</b>			
Fluoxetine		  	
Citalopram		  	
Sertraline		  	
Fluvoxamine maleate		  	
Paroxetine		  	
Escitalopram		  	<b>RESTRICTED</b> Mental Health Trust initiation only

4.3.4 Other Antidepressant Drugs			
Venlafaxine	Green		<b>RESTRICTED</b> initiation by Psychiatrist
		  	
Mirtazapine			<b>RESTRICTED</b> initiation by Psychiatrist
		<b>MMC</b>   	
Duloxetine			<b>RESTRICTED</b> initiation by Psychiatrist
		  	
Flupentixol			<b>RESTRICTED</b> initiation by Psychiatrist
		  	
Reboxetine			<b>RESTRICTED</b> initiation by Psychiatrist
		<b>MMC</b>   	
Tryptophan			<b>RESTRICTED</b> initiation by Psychiatrist
500mg tablets			
		  	
Vortioxetine	Green		<b>RESTRICTED</b> initiation by Psychiatrist
		 <b>MMC</b>   	

## 4.4 CNS stimulants & drugs used for ADHD

### 4.4 CNS stimulants & drugs used for ADHD











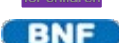


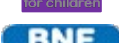


















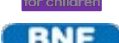


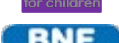

						GMMMG
						NICE NG87
Atomoxetine	Amber				   	<b>RESTRICTED</b> on Paediatric / Psychiatric advice
Dexamfetamine	Amber				  	<b>RESTRICTED</b> on Paediatric / Psychiatric advice
Lisdexamfetamine	Amber				    	<b>RESTRICTED</b> line use for ADHD <sup>2<sup>nd</sup></sup>
Methylphenidate	Amber				   	<b>RESTRICTED</b> on Paediatric / Psychiatric advice
Modafinil	Amber	Narcolepsy	Red	Postural hypotension/sleep apnoea	  	<b>RESTRICTED</b> on Paediatric / Psychiatric advice































































**4.5 Drugs used in the treatment of obesity****4.5.1 Anti-Obesity Drugs Acting on the Gastro-Intestinal Tract****NICE CG43**



















Orlistat

**RESTRICTED**  
Consultant initiation - Paeds. only



4.6 Drugs used in nausea & vertigo		GMMMG
<b>Antihistamines</b>		
Cyclizine	  	1 <sup>st</sup> line use
Promethazine Hydrochloride <a href="#">see also section 3.4.1</a>	  	
Promethazine Teoclate	  	
<b>Phenothiazines &amp; Related Drugs</b>		
Prochlorperazine	  	
Droperidol	 <b>MMC</b>  	<b>RESTRICTED</b> Consultant initiation only for PONV
<b>Domperidone &amp; Metoclopramide</b>		
Domperidone <a href="#">see also section 1.2</a>	   	
Metoclopramide Hydrochloride <a href="#">see also section 1.2</a>	  	
<b>5HT<sub>3</sub> - receptor antagonists</b>		
Ondansetron <a href="#">see below</a>	  	<b>RESTRICTED - Chemotherapy induced &amp; post-op vomiting</b>
Ondansetron - post operatively and following chemotherapy		
Ondansetron - for exceptional use in non-oncology patients with chronic emesis following consultant recommendation and where all other options have failed		
<b>Neurokinin 1-receptor antagonist</b>		
Aprepitant 80mg; 125mg capsules; 25mg/mL oral suspension	 <b>MMC</b>  	<b>RESTRICTED - highly/moderately emetogenic chemotherapy induced nausea &amp; vomiting</b>
<b>Hyoscine</b>		
Hyoscine Hydrobromide <a href="#">for Hyoscine Butylbromide see section 1.2</a>	  	
<b>Other Drugs for Ménière's Disease</b>		
Betahistine Dihydrochloride	  	

4.7 Analgesics		GMMMG	
4.7.1 Non-Opioid Analgesics		(see also Chapter 10 for NSAIDs)	
Paracetamol	MMC   	1 <sup>st</sup> line use	
Sucrose 24% solution Sweet-Ease®	MMC   	RESTRICTED Pain relief in neonates	
Compound Analgesic Preparations			
Co-Codamol	  		
Co-Dydramol	  		
4.7.2 Opioid Analgesics			
Codeine Phosphate	  		
Tramadol Hydrochloride	  		
Dihydrocodeine Tartrate standard release preparations only	  		
Morphine Sulphate	  		
Diamorphine Hydrochloride	  		
Oxycodone Hydrochloride	MMC   	RESTRICTED 2 <sup>nd</sup> line for morphine intolerance	
Pethidine Hydrochloride	  		
Fentanyl NOT lozenge	MMC   	Spray RESTRICTED palliative care & haematology initiation (Wd44) 	
Buprenorphine NOT patch	NICE   	RESTRICTED	
Methadone Hydrochloride	NICE   	RESTRICTED palliative care & substance misuse	
Tapentadol Hydrochloride MR	MMC   	RESTRICTED 3 <sup>rd</sup> line - Pain Team Consultants only	
4.7.3 Neuropathic Pain			
Amitriptyline	  		
Carbamazepine 	  		
Gabapentin 	  		
Pregabalin 	MMC   	3 <sup>rd</sup> / 4 <sup>th</sup> line use if gabapentin contraindicated or not tolerated	

<b>4.7.4 Antimigraine Drugs</b>	
<b>4.7.4.1 Treatment Of Acute Migraine</b>	
<b>Analgesics</b>	
Aspirin	  
Paracetamol	  
Ibuprofen	  
<b>5HT<sub>1</sub> - receptor agonists</b>	
Sumatriptan	  
<b>4.7.4.2 Prophylaxis of Migraine</b>	
Clonidine Hydrochloride	  
Pizotifen	  

4.8 Antiepileptic drugs		Green	GMMMG		
4.8.1 Control of the Epilepsies					NICE CG137
Carbamazepine	Green	Amber	NICE	BNF for children	emc+
Phenobarbital	Green		NICE	BNF for children	emc+
Phenytoin Sodium	Green		NICE	BNF for children	emc+
Sodium Valproate	Green	Amber	NICE	BNF for children	emc+
Clobazam			NICE	BNF for children	emc+
Clonazepam			NICE	BNF for children	emc+
Ethosuximide	Green		NICE	BNF for children	emc+
Gabapentin	Green		NICE	BNF for children	emc+
Lacosamide	Green		NICE MMC	BNF for children	emc+
Lamotrigine	Green		NICE	BNF for children	emc+
Levetiracetam	Green		NICE MMC	BNF for children	emc+
Oxcarbazepine	Green		NICE	BNF for children	emc+
Perampanel	Green		MMC	BNF for children	emc+
Pregabalin	Green		NICE MMC	BNF for children	emc+
Primidone	Green			BNF for children	emc+
Rufinamide	Red until stabilised then Green		NICE MMC	BNF for children	emc+
Stiripentol	Red		NICE MMC	BNF for children	emc+
Topiramate	Green		NICE MMC	BNF for children	emc+
Vigabatrin	Red		NICE	BNF for children	emc+
Zonisamide	Green		NICE MMC	BNF for children	emc+



**RESTRICTED**  
Specialist use only

**RESTRICTED**  
Specialist use only

**RESTRICTED** Paediatrics only

**RESTRICTED**  
Specialist use only

**RESTRICTED**  
Specialist use only

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Specialist use only

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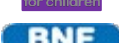







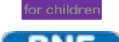

**RESTRICTED** Specialist use only  
Lennox-Gastaut Syndrome

**RESTRICTED**  
Specialist use only

**RESTRICTED**  
Specialist use only

**RESTRICTED**  
Specialist use only

**RESTRICTED**  
Specialist use only

4.8.2 Drugs Used in Status Epilepticus			
Lorazepam		  	
Diazepam		  	
Clonazepam		  	
Midazolam		  	
Paraldehyde		  	
Phenytoin Sodium		  	
Sulthiame (Ospolot®)		   	<b>RESTRICTED</b> Consultant Neurologist use only

4.9 Drugs used in Parkinsonism & related disorders			GMMMG		
4.9.1 Dopaminergic Drugs Used in Parkinsonism			NICE NG71		
Amantadine Hydrochloride	Green	NICE	BNF for children	emc+	RESTRICTED Specialist use only
Apomorphine Hydrochloride	Amber	NICE	BNF for children	emc+	RESTRICTED Specialist use only
Cabergoline	Green	NICE MMC	BNF for children	emc+	RESTRICTED Specialist use only
Co-beneldopa	Green	NICE	BNF for children	emc+	RESTRICTED Specialist use only
Co-careldopa	Green	NICE PbR X	BNF for children	emc+	RESTRICTED Specialist use only
Entacapone	Green	MMC	BNF for children	emc+	RESTRICTED Specialist use only
Opicapone	Green	MMC	BNF for children	emc+	RESTRICTED Specialist 2 <sup>nd</sup> line use only
Pramipexole	Green	MMC	BNF for children	emc+	RESTRICTED Specialist use only - 3 <sup>rd</sup> line add-on use
Rasagiline	Green	MMC	BNF for children	emc+	RESTRICTED patients with end of dose fluctuations
Ropinirole	Green		BNF for children	emc+	RESTRICTED Specialist use only
Rotigotine	Green	NICE MMC	BNF for children	emc+	RESTRICTED Specialist use only. NBM patients
Safinamide	Green	MMC	BNF for children	emc+	RESTRICTED Specialist use only
Selegiline	Green		BNF for children	emc+	RESTRICTED Specialist use only
4.9.2 Antimuscarinic Drugs Used in Parkinsonism					
Orphenadrine Hydrochloride			BNF for children	emc+	
Procyclidine (Oral & IM)			BNF for children	emc+	
Trihexyphenidyl Hydrochloride (Benzhexol Hydrochloride)	Green		BNF for children	emc+	
4.9.3 Drugs Used in Essential Tremor, Chorea, Tics & Related Disorders					
Propranolol			BNF for children	emc+	
Haloperidol			BNF for children	emc+	RESTRICTED Specialist use only
Piracetam			BNF for children	emc+	RESTRICTED Specialist use only
Tetrabenazine			BNF for children	emc+	RESTRICTED Specialist use only

**Torsion Dystonias & Other Involuntary Movements**

Botulinum Toxin Type A (Botox®)

Red

PbR X

MMC

BNF  
for children

BNF

emc

**RESTRICTED**  
Specialist use only




4.10 Drugs used in substance dependence		GMMMG
4.10.1 Alcohol dependence		
Nalmefene	NICE MMC BNF for children emc+	<b>RESTRICTED - Specialist use only in line with NICE TA325</b> <b>NOT STOCKED</b>
4.10.2 Nicotine dependence		NICE NG92
Nicotine Replacement Therapy patches, lozenges, inhalator, microtabs	BNF for children emc+	1 <sup>st</sup> line use
Bupropion Hydrochloride	NICE BNF for children emc+	<b>RESTRICTED - Specialist use only in line with NICE NG92</b>
Varenicline	NICE MMC BNF for children emc+	<b>RESTRICTED - Specialist use only in line with NICE TA123</b>
4.10.3 Opioid Dependence		NICE CG52
Buprenorphine	NICE BNF for children emc+	<b>RESTRICTED</b> Initiation by substance misuse specialist
Methadone Hydrochloride	NICE BNF for children emc+	<b>RESTRICTED</b> Initiation by substance misuse specialist
Naltrexone Hydrochloride	Red NICE MMC BNF for children emc+	<b>RESTRICTED</b> Gastro Consultant only - cholestatic itch



4.11 Drugs for dementia		GMMMG	
4.11 Drugs for Dementia		NICE NG97	
Donepezil Hydrochloride	Green	NICE MMC BNF emc+	RESTRICTED Specialist use only
Galantamine	Green	NICE BNF emc+	RESTRICTED Specialist use only
Memantine Hydrochloride	Green	NICE BNF emc+	RESTRICTED Specialist use only
Rivastigmine	Green	NICE MMC BNF emc+	RESTRICTED Specialist use only
Dementia - as per NICE TA217 & CG42 Green (following specialist initiation)		Green	

## Section 5: Infections

Supported by the   
formulary ([click here](#))

### 5.1 Antibacterial drugs

- 5.1.1 Penicillins
- 5.1.2 Cephalosporins, Carbapenems & other Beta-Lactams
- 5.1.3 Tetracyclines
- 5.1.4 Aminoglycosides
- 5.1.5 Macrolides
- 5.1.6 Clindamycin
- 5.1.7 Some other Antibacterials
- 5.1.8 Sulphonamides & Trimethoprim
- 5.1.9 Antituberculosis Drugs
- 5.1.10 Antileprotic Drugs
- 5.1.11 Metronidazole & Tinidazole
- 5.1.12 Quinolones
- 5.1.13 Urinary-tract Infections

### 5.2 Antifungal drugs

- 5.2.1 Triazole Antifungals
- 5.2.3 Polyene Antifungals
- 5.2.4 Echinocandin Antifungals
- 5.2.5 Other Antifungals

### 5.3 Antiviral drugs

- 5.3.1 HIV Infection
- 5.3.2 Herpesvirus Infection
- 5.3.3 Viral Hepatitis
- 5.3.4 Influenza
- 5.3.5 Respiratory Syncytial Virus (RSV)

### 5.4 Antiprotozoal drugs

- 5.4.1 Antimalarials
- 5.4.2 Amoebicides
- 5.4.3 Trichomonacides
- 5.4.4 Antigiardial drugs
- 5.4.7 Drugs for toxoplasmosis
- 5.4.8 Drugs for pneumocystis pneumonia

### 5.5 Anthelmintics

- 5.5.1 Drugs for Threadworms (pinworms, *Enterobius vermicularis*)

## Trust Guidelines

Adult medicines and prescribing guidelines  
 Paediatric medicines and prescribing guidelines  
 Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)

## NICE Guidance

Prophylaxis against infective endocarditis (CG64)  
 Respiratory Tract Infections (CG69)  
 Surgical Site Infection (CG74)  
 Bacterial meningitis and meningococcal septicaemia (CG102)  
 Infection: Prevention & control of healthcare-associated infections in primary & community care (CG139)  
 Hepatitis B (Chronic) (CG165)  
 Tuberculosis (NG33)  
 Otitis media (acute): antimicrobial prescribing (NG91)  
 Hepatitis C: Chronic (TA75) (extended by TA106 - partially updated by TA200 & TA300)  
 Hepatitis B: Chronic (TA96) (partially updated by CG165)  
 Hepatitis C: Peginterferon & Ribavirin (TA106) (partially updated by TA200 & TA300)  
 Hepatitis B: Entecavir (TA153)  
 Hepatitis B: Telbivudine (TA154)  
 Oseltamivir, Amantadine & Zanamivir for prophylaxis of Influenza (TA158)  
 Oseltamivir, Amantadine & Zanamivir for treatment of Influenza (TA168)  
 Hepatitis B: Tenofovir disoproxil (TA173)  
 Hepatitis C - peginterferon alfa and ribavirin (TA200) (read in conjunction with TA75 & TA106)  
 Cystic fibrosis (pseudomonas lung infection) - colistimethate sodium and tobramycin (TA276)  
 Hepatitis C (children and young people) - peginterferon alfa & ribavirin (TA300)  
 Sofosbuvir for treating chronic hepatitis C (TA330)  
 Rifaximin for preventing episodes of overt hepatic encephalopathy (TA337)  
 Ledipasvir–sofosbuvir for treating chronic hepatitis C (TA363)  
 Daclatasvir for treating chronic hepatitis C (TA364)  
 Ombitasvir–paritaprevir–ritonavir with or without dasabuvir for treating chronic hepatitis C (TA365)  
 Elbasvir–grazoprevir for treating chronic hepatitis C (TA413)  
 Sofosbuvir–velpatasvir for treating chronic hepatitis C (TA430)  
 Glecaprevir–pibrentasvir for treating chronic hepatitis C (TA499)  
 Sofosbuvir–velpatasvir–voxilaprevir for treating chronic hepatitis C (TA507)

## GMMMG Formulary

Formulary Homepage  
 Chapter 5: Infections (Complete)  
 GMMMG Adult [Red/Amber/Green](#); DNP and Grey Drug List  
 GMMMG Paediatric [Red/Amber/Green](#) Drug List

**RESTRICTED USE ANTIBIOTICS**

1. Must be recommended / approved for use by consultant medical microbiologist
2. The name of the microbiologist must be documented on the prescription chart. The indication must be documented.
3. Only available from Pharmacy

**RESERVED USE ANTIBIOTICS**

1. Can be used only in accordance with the restrictions outlined below.
2. Indication must be clearly documented on the prescription chart.
3. If being used outside of guidelines Microbiology approval must be sought as above.

**UNRESTRICTED USE ANTIBIOTICS**

1. Can be used according to CMFT Trust guidelines, (those drugs not marked Restricted or Reserved)

**5.1 Antibacterial drugs****5.1.1 Penicillins****5.1.1.1 Benzylpenicillin & Phenoxyethylpenicillin**

Benzylpenicillin Sodium (Penicillin G)

600mg injection



Phenoxyethylpenicillin (Penicillin V)



Benzathine Benzylpenicillin

**RESTRICTED** unlicensed treatment for syphilis**5.1.1.2 Penicillinase-Resistant Penicillins**

Flucloxacillin



Temocillin

1g injection

**RESTRICTED** infection caused by multi-resistant coliforms. Micro only**5.1.1.3 Broad Spectrum Penicillins**

Amoxicillin



Co-amoxiclav

**5.1.1.4 Antipseudomonal Penicillins**

Piperacillin with Tazobactam

4.5g injection

**RESERVED** serious / resistant infections

Ticarcillin with Clavulanic Acid (Timentin®)

3.2g injection

**RESERVED** serious / resistant infections**5.1.1.5 Mecillinams**

Pivmecillinam Hydrochloride

200mg tablets

**RESTRICTED** UTIs caused by resistant coliforms**5.1.2 Cephalosporins, Carbapenems & other Beta-Lactams****5.1.2.1 Cephalosporins**

Cefalexin



Cefotaxime

**RESERVED** as per guidelines for children

Ceftriaxone






























































**RESERVED** as per guidelines for children























































Cefuroxime

**RESERVED** as per guidelines for children

Cefixime













**RESERVED** GU infections only

Ceftazidime		 <b>MMC</b>  	<b>RESERVED</b> pseudomonas infection in CF patients
Ceftazidime / Avibactam (Zavicefta®)		 <b>MMC</b>  	<b>RESTRICTED</b> gram negative organisms. Micro. Consultant only
Ceftolozane sulfate / Tazobactam sodium (Zerbaxa®)		 <b>MMC</b>  	<b>RESTRICTED</b> gram negative organisms. Micro. Consultant only
Ceftaroline Fosamil		 <b>MMC</b>  	<b>RESERVED</b> for CAP & cSSTI treatment. Micro. Consultant only
Cefoxitin		 <b>MMC</b>  	<b>RESERVED</b> for treatment of mycobacterium abscessus in CF patients. Micro. Consultant only
<b>5.1.2.2 Carbapenems</b>			
Ertapenem		 <b>MMC</b>  	<b>RESTRICTED</b> Outpatient therapy only
Meropenem		 <b>MMC</b>  	<b>RESERVED</b> as per guidelines
Imipenem		 <b>MMC</b>  	<b>RESTRICTED</b> Non-Tuberculous Mycobacteria in Cystic Fibrosis
<b>5.1.2.3 Other Beta-Lactam antibiotics</b>			
Aztreonam		  	<b>RESTRICTED</b> gram negative organisms
Aztreonam lysine (Cayston®)	<b>Red</b>	 <b>MMC</b>  	<b>RESTRICTED</b> 3 <sup>rd</sup> line CF patients with chronic pulmonary infection
<b>5.1.3 Tetracyclines</b>			
Doxycycline		 <b>MMC</b>  	
Oxytetracycline		  	
Demeclocycline Hydrochloride		 <b>MMC</b>  	<b>RESTRICTED</b> - SIADH only
Lymecycline		 <b>MMC</b>  	<b>RESTRICTED</b> Non-Formulary MMC approved for GP referral
Minocycline		 <b>MMC</b>  	
Tigecycline		 <b>MMC</b>  	<b>RESERVED</b> as per guidelines
<b>5.1.4 Aminoglycosides</b>			
Amikacin	<b>PbR X</b>	 <b>MMC</b>  	<b>RESERVED</b> as per guidelines
Gentamicin	<a href="#">assay guidelines</a>	  	
Tobramycin	<b>Amber</b> (nebulised) <b>Red</b> (new patients)	   	<b>RESERVED</b> as per guidelines
Neomycin Sulfate		  	<b>RESTRICTED</b> Gastro team only - op prep










































5.1.5 Macrolides					
Clarithromycin				  	
Azithromycin				  	RESERVED GU only or specialist use
Erythromycin				  	RESERVED in pregnancy or neonates
5.1.6 Clindamycin					
Clindamycin				  	RESERVED as per guidelines
5.1.7 Some other Antibacterials					
Chloramphenicol				  	RESERVED as per guidelines
Fidaxomicin					
Fidaxomicin	Green			  	RESTRICTED <i>clostridium difficile</i> associated diarrhoea. Micro only
200mg tablets			MMC		
Fusidic Acid					
Sodium Fusidate	Green			  	RESERVED as per guidelines
Glycopeptides					
Vancomycin	Green			  	
<a href="#">assay guidelines</a>			MMC		
Teicoplanin				  	RESERVED as per guidelines
Daptomycin					
Daptomycin	Red			  	RESTRICTED as per guidelines
			MMC		
Linezolid					
Linezolid	Red			  	RESTRICTED as per guidelines
			MMC		
Quinupristin with Dalfopristin					
Synercid®				  	RESTRICTED as per guidelines. Non-formulary
			MMC		
Polymyxins					
Colistimethate Sodium	Amber or Red			  	RESTRICTED as per guidelines
			NICE		
Rifaximin					
Rifaximin	Red			  	RESTRICTED as per guidelines
550mg tablets			NICE	MMC	
Spectinomycin					
Spectinomycin (Kirin®)	U			  	RESTRICTED cephalosporin resistant gonorrhoea
			MMC		
5.1.8 Sulphonamides & Trimethoprim					
Trimethoprim	Green			  	
Co-trimoxazole				  	RESERVED as per guidelines
Sulfadiazine				  	RESTRICTED



5.1.9 Antituberculosis Drugs	Red	until patient stabilised then	Green		NICE NG33
Ethambutol Hydrochloride	Green			NICE MMC BNF for children emc	
Isoniazid	Green			NICE BNF for children emc	
Pyrazinamide	Green			NICE BNF for children emc	
Rifampicin	Green			NICE BNF for children emc	
Rifabutin	Green			BNF for children BNF emc	2 <sup>nd</sup> line - for use where rifampicin is not suitable
Rifater® Rifampicin / Isoniazid / Pyrazinamide	Green			NICE BNF for children emc	
Rifinah® Rifampicin / Isoniazid	Green			NICE BNF for children emc	
Voractiv® Rifampicin / Isoniazid / Pyrazinamide / Ethambutol Hydrochloride	Green			MMC BNF for children emc	
Capreomycin				NICE BNF for children emc	RESTRICTED MDR TB only (not stocked)
Cycloserine				BNF for children BNF emc	RESTRICTED MDR TB only (not stocked)
Streptomycin	Red			NICE BNF for children emc	RESTRICTED MDR TB only (not stocked)
Moxifloxacin				NICE MMC BNF for children emc	RESTRICTED MDR TB only (not stocked)
Para aminosalicylic acid (PAS)				PbR X MMC BNF emc	RESTRICTED MDR TB only (not stocked)
<b>5.1.10 Antileprotic Drugs</b>					
Dapsone				BNF for children BNF emc	RESERVED
<b>5.1.11 Metronidazole &amp; Tinidazole</b>					
Metronidazole				BNF for children BNF emc	
Tinidazole				BNF for children BNF emc	RESTRICTED
<b>5.1.12 Quinolones</b>					
Ciprofloxacin				BNF for children BNF emc	RESERVED as per guidelines
Levofloxacin				MMC BNF emc	RESTRICTED MDR TB only (not stocked)
Moxifloxacin				MMC BNF emc	RESTRICTED MDR TB only
Nalidixic acid				BNF for children BNF emc	RESTRICTED Urology use in children only

Ofloxacin	  	<b>RESTRICTED GU infections only</b>
<b>5.1.13 Urinary-tract Infections</b>		
Nitrofurantoin	  	
Fosfomycin	 <b>MMC</b>  	<b>RESTRICTED Micro recommendation only</b>
Methenamine Hippurate	 <b>MMC</b>  	<b>RESTRICTED Urology Consultants only as part of ALTAR trial</b>



5.2 Antifungal drugs		GMMMG	
<b>5.2.1 Triazole Antifungals</b>			
Fluconazole		  	
Isavuconazole	 <b>MMC</b>	  	<b>RESTRICTED</b> micro / specialist use only
Itraconazole		  	
Posaconazole	  <b>MMC</b>	  	<b>RESTRICTED</b> micro use only
Voriconazole	  <b>MMC</b>	  	<b>RESTRICTED</b> micro / specialist use only
<b>5.2.3 Polyene Antifungals</b>			
Nystatin		  	
Amphotericin		  	<b>RESTRICTED</b> micro / specialist use only
AmBisome® – for systemic use; Fungizone® - topical ONLY			
<b>5.2.4 Echinocandin Antifungals</b>			
Micafungin	  <b>MMC</b>	  	<b>RESTRICTED</b> micro / specialist use only
<b>5.2.5 Other Antifungals</b>			
Griseofulvin	<b>MMC</b>	  	2 <sup>nd</sup> line following topical therapy
Terbinafine		  	2 <sup>nd</sup> line following topical therapy
Flucytosine		  	<b>RESTRICTED</b> micro / Neonates only

## 5.3 Antiviral drugs



## 5.3.1 HIV Infection

Red

## Nucleoside Reverse Transcriptase Inhibitors (NRTIs)

BHIVA treatment guidelines (2015)

Abacavir	Red		PbR X	MMC	BNF for children	emc	
Emtricitabine	Red		PbR X	MMC	BNF for children	emc	
Lamivudine	Red		PbR X		BNF for children	emc	
Tenofovir Disoproxil	Red		NICE PbR X	MMC	BNF for children	emc	
Tenofovir Alafenamide Descovy® / Odefsey® / Genvoya®	Red		PbR X	MMC	BNF for children	emc	RESTRICTED to patients who require the new formulation NHSE
Tenofovir Disoproxil / Efavirenz / Emtricitabine Atripla®	Red		PbR X	MMC	BNF for children	emc	
Tenofovir / Cobicistat / Elvitegravir / Emtricitabine Stribild®	Red		PbR X	MMC	BNF for children	emc	NHSE
Tenofovir / Emtricitabine Truvada®	Red		PbR X	MMC	BNF for children	emc	
Emtricitabine / Rilpivirine / Tenofovir Eviplera®	Red		PbR X	MMC	BNF for children	emc	CHIVA PEP 2015
Zidovudine / Lamivudine Combivir®	Red		PbR X		BNF for children	emc	
Didanosine	Red		PbR X		BNF for children	emc	
Stavudine	Red		PbR X		BNF for children	emc	
<b>Protease Inhibitors</b>							
BHIVA treatment guidelines (2015)							
Atazanavir	Red		PbR X	MMC	BNF for children	emc	
Atazanavir / Cobicistat Evotaz®	Red		PbR X	MMC	BNF for children	emc	NHSE
Darunavir	Red		PbR X	MMC	BNF for children	emc	MHRA
Darunavir / Cobicistat Rezolsta®	Red		PbR X	MMC	BNF for children	emc	NHSE
Darunavir / Cobicistat / Emtricitabine & Tenofovir Symtuza®	Red		PbR X	MMC	BNF for children	emc	
Fosamprenavir	Red		PbR X	MMC	BNF for children	emc	
Lopinavir / Ritonavir Kaletra®	Red		PbR X		BNF for children	emc	MHRA
Ritonavir	Red		PbR X		BNF for children	emc	MHRA

Saquinavir	Red	PbR X	BNF for children	BNF	emc	
Tipranavir	Red	PbR X	MMC	BNF for children	BNF	emc
Indinavir	Red	PbR X	BNF for children	BNF	emc	
<b>Non-Nucleoside Reverse Transcriptase Inhibitors (Non-NRTIs)</b>						<b>BHIVA treatment guidelines (2015)</b>
Efavirenz	Red	PbR X	BNF for children	BNF	emc	
Nevirapine	Red	PbR X	MMC	BNF for children	BNF	emc
Etravirine	Red	PbR X	MMC	BNF for children	BNF	emc
Rilpivirine	Red	PbR X	MMC	BNF for children	BNF	emc
<b>Other Antiretrovirals</b>						<b>BHIVA treatment guidelines (2015)</b>
Maraviroc	Red	PbR X	MMC	BNF for children	BNF	emc
Raltegravir	Red	PbR X	MMC	BNF for children	BNF	emc
Enfuvirtide	Red	PbR X	MMC	BNF for children	BNF	emc
Dolutegravir	Red	PbR X	MMC	BNF for children	BNF	emc
<b>Pharmacokinetic enhancers of antiretrovirals</b>						
Cobicistat		PbR X	MMC	BNF for children	BNF	emc
<b>5.3.2 Herpesvirus Infection</b>						
<b>5.3.2.1 Herpes Simplex &amp; Varicella-Zoster Infection</b>						
Aciclovir				BNF for children	BNF	emc
Valaciclovir				BNF for children	BNF	emc
<b>5.3.2.2 Cytomegalovirus (CMV) Infection</b>						
Ganciclovir	Red	PbR X		BNF for children	BNF	emc
Valganciclovir	Red	PbR X		BNF for children	BNF	emc
Cidofovir	Red	PbR X		BNF for children	BNF	emc
Foscarnet Sodium		PbR X	MMC	BNF for children	BNF	emc

**5.3.3 Viral Hepatitis****5.3.3.1 Chronic hepatitis B****NICE CG165**

Adefovir Dipivoxil

Red

BNF  
for children

Hepsera®

NICE

PbR X

MMC

BNF

emc+

Entecavir

Red

BNF  
for children

Baraclude®

NICE

PbR X

MMC

BNF

emc+

5.3.3.2 Chronic hepatitis C				NHSE Hepatitis C
Daclatasvir dihydrochloride Daklinza®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line NHS England Commissioning
Dasabuvir Exviera®	Red	PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line NHS England Commissioning
Elbasvir / Grazoprevir Zepatier®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line with NICE TA413
Glecaprevir / Pibrentasvir Maviret®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line with NHSE and NICE TA499
Ombitasvir / Paritaprevir / Ritonavir Viekirax®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line NHSE England Commissioning MHRA
Sofosbuvir Sovaldi®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line with NICE TA330
Sofosbuvir / Ledipasvir Harvoni®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line NHS England Commissioning
Sofosbuvir / Velpatasvir Epclusa®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line with NICE TA430
Sofosbuvir / Velpatasvir / Voxilaprevir Vosevi®	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only in line with NICE TA507
5.3.4 Influenza				
Oseltamivir Tamiflu®		NICE MMC BNF emc	BNF for children	
Zanamivir Relenza®		NICE MMC BNF emc	BNF for children	
5.3.5 Respiratory Syncytial Virus (RSV)				
Palivizumab Synagis® 100mg/mL injection		PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only
Ribavirin	Red	NICE PbR X MMC BNF emc	BNF for children	RESTRICTED Specialist use only

5.4 Antiprotozoal drugs		GMMMG
<b>5.4.1 Antimalarials</b>		
Artesunate	  	<b>RESTRICTED Specialist use only</b>
Artemether with Lumefantrine	<b>MMC</b>   	<b>RESTRICTED Specialist use only</b>
Chloroquine	  	<b>RESTRICTED Specialist use only</b>
Mefloquine	  	<b>RESTRICTED Specialist use only</b>
Primaquine	  	<b>RESTRICTED Specialist use only</b>
Proguanil Hydrochloride	  	<b>RESTRICTED Specialist use only</b>
Proguanil Hydrochloride / Atovaquone Malarone®	  	<b>RESTRICTED Specialist use only</b>
Pyrimethamine	<b>MMC</b>   	<b>RESTRICTED Specialist use only</b>
Pyrimethamine with Sulfadoxine	  	<b>RESTRICTED Specialist use only</b>
Quinine Dihydrochloride	  	<b>RESTRICTED Specialist use only</b>
Quinine Sulfate	  	<b>RESTRICTED Specialist use only</b>
<b>5.4.2 Amoebicides</b>		
Metronidazole	  	
Tinidazole	  	<b>RESERVED Specialist use only</b>
Diloxanide Furoate	  	<b>RESTRICTED Non-formulary microbiology recommendation only</b>
<b>5.4.3 Trichomonacides</b>		
Metronidazole	  	
<b>5.4.4 Antigiardial drugs</b>		
Metronidazole	  	
<b>5.4.7 Drugs for toxoplasmosis</b>		
Sulfadiazine	  	<b>RESTRICTED - treatment of toxoplasmosis - micro only</b>
<b>5.4.8 Drugs for pneumocystis pneumonia</b>		
Atovaquone	  	<b>RESTRICTED Specialist use only</b>
Pentamidine Isethionate	  	<b>RESTRICTED Specialist use only</b>

## 5.5 Anthelmintics




### 5.5.1 Drugs for Threadworms (pinworms, *Enterobius vermicularis*)

Mebendazole





## Section 6: Endocrine System

Supported by the   
formulary ([click here](#))

### 6.1 Drugs used in diabetes

#### 6.1.1 Insulins

##### 6.1.1.1 Short-acting insulins

##### 6.1.1.2 Intermediate & long-acting insulins

##### Biphasic insulins

#### 6.1.2 Antidiabetic drugs

##### 6.1.2.1 Sulphonylureas

##### 6.1.2.2 Biguanides

##### 6.1.2.3 Other antidiabetic drugs

#### 6.1.4 Treatment of hypoglycaemia

### 6.2 Thyroid & antithyroid drugs

#### 6.2.1 Thyroid hormones

#### 6.2.2 Antithyroid drugs

### 6.3 Corticosteroids

#### 6.3.1 Replacement therapy

#### 6.3.2 Glucocorticoid therapy

### 6.4 Sex hormones

#### 6.4.1 Female sex hormones and their modulators

##### 6.4.1.1 Oestrogens & HRT

##### 6.4.1.2 Progestogens and progesterone receptor modulators

#### 6.4.2 Male sex hormones & antagonists

### 6.5 Hypothalamic and pituitary hormones & anti-oestrogens

#### 6.5.1 Hypothalamic & anterior pituitary hormones & anti-oestrogens

#### 6.5.2 Posterior pituitary hormones & antagonists

### 6.6 Drugs affecting bone metabolism

#### 6.6.1 Calcitonin & parathyroid hormone

#### 6.6.2 Bisphosphonates & other drugs affecting bone metabolism

### 6.7 Other endocrine drugs

#### 6.7.1 Bromocriptine & other dopaminergic drugs

#### 6.7.2 Drugs affecting gonadotrophins

#### 6.7.3 Metyrapone

#### 6.7.4 Somatomedins



## Trust Guidelines




















































Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)
































































## NICE Guidance



















Safer insulin prescribing (KTT20)  
Diabetes in pregnancy: management from preconception to the postnatal period (NG3)  
Type 1 diabetes in adults: diagnosis and management (NG17)  
Diabetes (type 1 and type 2) in children and young people: diagnosis and management (NG18)  
Diabetic foot problems: prevention and management (NG19)  
Type 2 diabetes in adults: management (NG28)  
Heavy menstrual bleeding: assessment and management (NG88)  
Human growth hormone - adults (TA64)  
Diabetes (type 1) - insulin pump therapy (TA151)  
Osteoporosis - Primary Prevention (TA160)  
Osteoporosis - Secondary Prevention (TA161)  
Human growth hormone (somatropin) for the treatment of growth failure in children (review) (TA188)  
Osteoporotic Fractures - denosumab (TA204)  
Bone metastases from solid tumours - denosumab (TA265)  
Type 2 diabetes - Dapagliflozin combination therapy (TA288)  
Diabetes (type 2) - canagliflozin (TA315)  
Tolvaptan for treating autosomal dominant polycystic kidney disease (TA358)  
Canagliflozin, dapagliflozin and empagliflozin as monotherapies for treating type 2 diabetes (TA390)  
Dapagliflozin in triple therapy for treating type 2 diabetes (TA418)  
Bisphosphonates for treating osteoporosis (TA464)






















## GMMMG Formulary

























Formulary Homepage  
Chapter 6: Endocrine system (Complete)  
GMMMG Adult [Red](#)/[Amber](#)/[Green](#); DNP and Grey Drug List  
GMMMG Paediatric [Red](#)/[Amber](#)/[Green](#) Drug List



























6.1 Drugs used in diabetes		GMMMG
6.1.1 Insulins		NICE NG3
Insulins must ONLY be initiated by practitioners experienced in their use		NICE NG17
Insulins must be prescribed by BRAND NAME		NICE NG18
6.1.1.1 Short-acting insulins		NICE NG19
<b>Human</b>		NICE NG28
Actrapid® Human Insulin	  	
Apidra® Insulin Glulisine	  	
Humalog® Insulin Lispro	  	
Humulin S® Human Insulin	  	
NovoRapid® Insulin Aspart	 <b>MMC</b>  	
<b>Animal</b>		
Hypurin® Bovine Neutral Insulin Bovine	  	
Hypurin® Porcine Neutral Insulin Porcine	  	
6.1.1.2 Intermediate & long-acting insulins		
<b>Human</b>		
Humulin I® Insulin Isophane Insulin	  	
Insulatard® Isophane Insulin	  	
<b>Animal</b>		
Hypurin® Bovine Isophane Isophane Insulin	  	
Hypurin® Porcine Isophane Isophane Insulin	  	
<b>Long-acting insulins</b>		
<b>Human</b>		
Levemir® Insulin Detemir	 <b>MMC</b>  	
Lantus® Insulin Glargine	 <b>MMC</b>  	2 <sup>nd</sup> line use in patients where normal basal insulins cause nocturnal hypoglycaemia
Abasaglar® Insulin Glargine biosimilar	 <b>MMC</b>  	
Toujeo® Insulin Glargine HIGH STRENGTH	 <b>MMC</b>  	
Tresiba® Insulin Degludec	 <b>MMC</b>  	<b>RESTRICTED Diabetes Consultant only - 3<sup>rd</sup> line after Levemir &amp; Lantus</b>
<b>Animal</b>		
Hypurin® Bovine Lente Insulin Zinc suspension	  	














<b>Biphasic insulins</b>			
<b>Human</b>			
Humalog® Mix 25		  	
Biphasic Insulin Lispro			
Humalog® Mix 50		  	
Biphasic Insulin Lispro			
Humulin M3®		  	
Biphasic Isophane Insulin			
Insuman® Comb 25		  	
Biphasic Isophane Insulin			
NovoMix® 30		  	
Biphasic Insulin Aspart			
<b>Animal</b>			
Hypurin® Porcine 30/70 Mix Insulin		  	
Biphasic Isophane Insulin			
<b>6.1.2 Antidiabetic drugs</b>			
<b>6.1.2.1 Sulphonylureas</b>			
Gliclazide		  	
Glipizide		  	<b>RESTRICTED</b> Not for initiation
<b>6.1.2.2 Biguanides</b>			
Metformin Hydrochloride		  	
<b>6.1.2.3 Other antidiabetic drugs</b>			<b>NICE NG28</b>
Acarbose		  	
Exenatide		    	<b>2<sup>nd</sup> line</b> patients with poor glycaemic control (HbA1c>8.0%) where glitazone therapy is contraindicated / not tolerated
Bydureon®		   	<b>3<sup>rd</sup> line</b> after failure / inadequate response to oral therapy
Exenatide prolonged release (once weekly)			
Dapagliflozin		    	<b>RESTRICTED - Diabetes Consultants only in line with NICE TA288 &amp; TA418</b>
Canagliflozin		    	<b>RESTRICTED - Diabetes Consultants only in line with TA315</b>
Empagliflozin		    	<b>RESTRICTED - Diabetes Consultants only in line with TA336</b>
Liraglutide		    	<b>2<sup>nd</sup> line</b> to achieve glycaemic control combination with metformin or a sulphonylurea

Dulaglutide	Green	MMC	 BNF		<b>RESTRICTED - Diabetes Consultants only - 1<sup>st</sup> line weekly preparation</b>
Lixisenatide	Green	MMC	 BNF		<b>RESTRICTED - Diabetes Consultants only - 3<sup>rd</sup> line as recommended by GMMMG &amp; NICE</b>
Pioglitazone		MMC	 BNF		<b>2<sup>nd</sup> line add-on with metformin or a sulphonylurea</b>
Saxagliptin	Green	MMC	 BNF		<b>2<sup>nd</sup> line to improve glycaemic control in adults with metformin</b>
Sitagliptin	Green	MMC	 BNF		
Linagliptin	Green	MMC	 BNF		
Alogliptin	Green	MMC	 BNF		
<b>6.1.4 Treatment of hypoglycaemia</b>					
Glucagon			 BNF		
Glucose gel			 BNF		

6.2 Thyroid & antithyroid drugs		GMMMG	
<b>6.2.1 Thyroid hormones</b>			
Levothyroxine Sodium		  	
Liothyronine Sodium		  	<b>2<sup>nd</sup> line use (I.V. RESTRICTED to hypothyroid coma)</b>
<b>6.2.2 Antithyroid drugs</b>			
Carbimazole		  	
Iodine (Aqueous Iodine Oral Solution)	<b>U</b>	  	
Lugol's Iodine		  	
Potassium Iodide		  	
Propylthiouracil	<b>Green</b>	  	

6.3 Corticosteroids		GMMMG
<b>6.3.1 Replacement therapy</b>		
Fludrocortisone	  	
<b>6.3.2 Glucocorticoid therapy</b>		
Prednisolone	  	
Dexamethasone	  	
Hydrocortisone	  	
Hydrocortisone M/R 5mg tablets	   <b>MMC</b>	<b>RESTRICTED</b> 2 <sup>nd</sup> line use in adrenal insufficiency
Betamethasone	  	<b>RESTRICTED Specialist use only</b>
Methylprednisolone	  	
Triamcinolone <a href="#">see also section 10.1.2.2</a>	  	<b>RESTRICTED Specialist use only</b>

6.4 Sex hormones		GMMMG
<b>6.4.1 Female sex hormones and their modulators</b>		
<b>6.4.1.1 Oestrogens &amp; HRT</b>		
<b>Conjugated oestrogens with progestogen</b>		
Premique®	BNF 	<b>2<sup>nd</sup> line use oral</b> (continuous combined HRT)
<b>Estradiol with Progestogen</b>		
Elleste-Duet®	BNF 	<b>1<sup>st</sup> line use oral</b> (sequential HRT)
Femoston®	BNF 	<b>2<sup>nd</sup> line use oral</b> (sequential HRT)
Kliovance®	MMC BNF 	<b>1<sup>st</sup> line use oral</b> (continuous combined HRT)
Evorel Conti®	BNF 	<b>RESTRICTED</b> (Continuous combined HRT) when oral contraindicated.
<b>Estradiol only</b>		
Climaval®	BNF 	
Elleste Solo®	BNF 	<b>1<sup>st</sup> line use oral</b> (oestrogen only HRT)
Estradot®	BNF 	<b>RESTRICTED</b> (Oestrogen only HRT) when oral contraindicated.
<b>Ethinylestradiol, raloxifene &amp; tibolone</b>		
Ethinylestradiol	MMC BNF  	2 microgram tablets (unlicensed) for amenorrhoea
Raloxifene Hydrochloride	NICE MMC BNF  	<b>RESTRICTED Specialist Med. Consultant only</b>
Tibolone	BNF  	<b>3<sup>rd</sup> line use oral</b> (continuous combined HRT)
<b>6.4.1.2 Progestogens and progesterone receptor modulators</b>		
Medroxyprogesterone Acetate (Depo-Provera®) 150mg/mL injection	BNF  	
Medroxyprogesterone Acetate (Sayana Press®) 104mg/0.65 mL injection	MMC BNF  	
Norethisterone	BNF  	
Progesterone  (suppositories in IVF)	MMC BNF 	
Dydrogesterone	BNF 	
Ulipristal Acetate (Esmya®) 5mg tablets	MMC BNF  	<b>RESTRICTED Specialist use only</b> 

6.4.2 Male sex hormones & antagonists			
Testosterone & Esters			
Oral			
Testosterone		  	<b>RESTRICTED Specialist use only</b>
injection & implants only			
Transdermal preparations			
Testosterone (Tostran®)		  	<b>RESTRICTED Specialist use only</b>
Anti-androgens			
Cyproterone Acetate		  	<b>RESTRICTED Specialist use only</b>
Finasteride		 	<b>RESTRICTED Specialist use only</b> 



## 6.5 Hypothalamic & pituitary hormones & anti-oestrogens



### 6.5.1 Hypothalamic & anterior pituitary hormones & anti-oestrogens

#### Anti-oestrogens

Clomifene Citrate

Red

BNF

#### Anterior pituitary hormones (Corticotrophins)

Tetracosactide

BNF

**RESTRICTED** diagnostic test for adrenocortical insufficiency

Corticotropin releasing hormone

BNF

**RESTRICTED** Specialist use only

#### Anterior pituitary hormones (Gonadotrophins)

Human Chorionic Gonadotrophin (hCG)

Red

BNF

**RESTRICTED** Specialist use only

Pregnyl® injection

MMC

Recombinant human follicle stimulating hormone (r-hFSH)

MMC

**RESTRICTED** Specialist use only

Ovaleap® injection

#### Anterior pituitary hormones (Growth Hormone)

Somatropin

BNF

**RESTRICTED** as per NICE

see below

PbR X

Growth hormone for children

Amber

Growth hormone for primary and secondary hypo-pituitarism

Amber

Growth hormone for adults except in proven primary and secondary hypopituitarism

Red

#### Anterior pituitary hormones (Growth Hormone receptor antagonists)

Pegvisomant

Amber

PbR X

**RESTRICTED** acromegaly, named patient basis  
**NOT STOCKED**

#### Hypothalamic hormones

Gonadorelin (GnRH; LHRH)

BNF

**RESTRICTED** Specialist use only

Protirelin (TRH)

BNF

**RESTRICTED** Specialist use only

### 6.5.2 Posterior pituitary hormones & antagonists

Desmopressin

MMC BNF

**RESTRICTED** Haematology Consultants only

Terlipressin Acetate

BNF

**RESTRICTED** adjunct in bleeding oesophageal varices

Tolvaptan

Red

PbR X

**RESTRICTED** Adult. Endocrinology / Renal Consultant only

Vasopressin

BNF

**RESTRICTED** pituitary diabetes insipidus


































#### Antidiuretic hormone antagonists

Demeclocycline Hydrochloride

MMC BNF


**RESTRICTED** SIADH only

see also section 5.1.3

6.6 Drugs affecting bone metabolism		GMMMG
<b>6.6.1 Calcitonin &amp; parathyroid hormone</b>		
Calcitonin (Salmon) / Salcatonin (Miacalcic®)	 MMC  	<b>RESTRICTED</b> osteoporosis patients with acute fracture pain.
Parathyroid hormone (Preatact®)	 MMC  	<b>RESTRICTED</b> postmenopausal osteoporosis if failure or non-compliance with bisphosphonates
Teriparatide (Forsteo®)	  MMC  	<b>RESTRICTED</b> option for 2 <sup>RY</sup> prevention of osteoporotic fragility fractures in postmenopausal women as per NICE TA161 Paeds. see decision tables
<b>6.6.2 Bisphosphonates &amp; other drugs affecting bone metabolism</b>		
Alendronic Acid	  MMC  	1 <sup>st</sup> line use
Risedronate Sodium	  MMC  	2 <sup>nd</sup> line Osteoporosis & Paget's disease
Strontium Ranelate	MMC  	3 <sup>rd</sup> line osteoporosis patients unable to take bisphosphonates
Ibandronic Acid 	 MMC  	<b>RESTRICTED</b> monthly treatment when daily/weekly dosing contraindicated; NICE TA464
Denosumab  or  oncology	 MMC  	<b>RESTRICTED</b> specialist initiation osteoporosis 
Zoledronic Acid	 MMC  	<b>RESTRICTED</b> see decision tables; also NICE TA464

6.7 Other endocrine drugs		GMMMG	
<b>6.7.1 Bromocriptine &amp; other dopaminergic drugs</b>			
Bromocriptine	Green		
1mg; 2.5mg tablets		BNF emc	
Cabergoline	Green		<b>RESTRICTED</b> Hyperprolactinaemia
500 microgram tablets		BNF emc	
<b>6.7.2 Drugs affecting gonadotrophins</b>			
Danazol			
capsules		BNF emc	
Buserelin	Red		<b>RESTRICTED</b> IVF
see also section 8.3.4.2		MMC BNF emc	
Buserelin Acetate	Red		<b>RESTRICTED</b> adult haemato-oncology patients
Suprecur® nasal spray		MMC BNF emc	
Goserelin		BNF for children BNF emc	
see below (also section 8.3.4.2)			
Leuprorelin Acetate		BNF for children BNF emc	
see below (also section 8.3.4.2)			
Triptorelin		BNF for children BNF emc	<b>RESTRICTED</b>
see below (also section 8.3.4.2)			
Cetrorelix acetate			<b>RESTRICTED</b> IVF
injection		MMC BNF emc	
Ganirelix			<b>RESTRICTED</b> IVF
injection		MMC BNF emc	
Goserelin/Leuprorelin - Licensed Indications (Pre-op management prior to endometrial ablation/fibroid surgery)			Amber
Goserelin/Leuprorelin/Triptorelin - Licensed Indications (Prostate cancer for all and breast cancer for Goserelin)			Amber
Goserelin/Leuprorelin/Triptorelin - Precocious puberty and for testosterone castration in sex offenders (unlicensed in goserelin and leuprorelin)			Red
Goserelin/Leuprorelin/Triptorelin - For all other unlicensed indications (including long term use > 6 months)			Red
<b>6.7.3 Metyrapone</b>			
Metyrapone	Red		<b>RESTRICTED</b> Specialist use only
250mg capsules		BNF for children BNF emc	
<b>6.7.4 Somatomedins</b>			
Mecasermin			<b>RESTRICTED</b> Specialist use only
10mg/mL injection	PbR X	BNF for children BNF emc	

## Section 7: Obstetrics, gynaecology & urinary tract disorders

Supported by the  formulary ([click here](#))

### 7.1 Drugs used in Obstetrics

#### 7.1.1 Prostaglandins & oxytocics

##### 7.1.1.1 Ductus arteriosus

#### 7.1.2 Mifepristone

#### 7.1.3 Myometrial relaxants

### 7.2 Treatment of vaginal & vulval conditions

#### 7.2.1 Preparations for vaginal & vulval changes

#### 7.2.2 Vaginal & vulval infections

### 7.3 Contraceptives

#### 7.3.1 Combined hormonal contraceptives

Ethinylestradiol with Levonorgestrel

Ethinylestradiol with Norethisterone

Ethinylestradiol with Norgestimate

Ethinylestradiol with Desogestrel

Ethinylestradiol with Gestodene

Mestranol with Norethisterone

#### 7.3.2 Progestogen-only contraceptives

##### 7.3.2.1 Oral progestogen-only contraceptives

##### 7.3.2.2 Parenteral progestogen-only contraceptives

##### 7.3.2.3 Intra-uterine progestogen-only device

#### 7.3.5 Emergency contraception

### 7.4 Drugs for genito-urinary disorders

#### 7.4.1 Drugs for urinary retention

#### 7.4.2 Drugs for urinary, enuresis & incontinence

#### 7.4.3 Drugs used in urological pain

#### 7.4.4 Bladder instillations & urological surgery

#### 7.4.5 Drugs for erectile dysfunction

#### 7.4.6 Drugs for premature ejaculation

## Trust Guidelines






























Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)























## NICE Guidance

Heavy menstrual bleeding: assessment and management (NG88)  
Long-acting reversible contraception (CG30)  
Antenatal care (CG62)  
Induction of labour (CG70)  
Lower urinary tract symptoms (CG97)  
Nocturnal enuresis - the management of bedwetting in children and young people (CG111)  
Caesarian Section (CG132)  
Urinary incontinence in women (CG171)  
Intrapartum care for healthy women and babies (CG190)  
Antenatal and postnatal mental health: clinical management and service guidance (CG192)  
Overactive bladder - mirabegron (TA290)























































## GMMM Formulary

Formulary Homepage  
Chapter 7: Obstetrics, gynaecology & urinary tract disorders (Complete)  
GMMM Adult [Red](#)/[Amber](#)/[Green](#); DNP and Grey Drug List  
GMMM Paediatric [Red](#)/[Amber](#)/[Green](#) Drug List





















7.1 Drugs used in Obstetrics		
<b>7.1.1 Prostaglandins &amp; oxytocics</b>		<b>NICE CG70</b>
Carboprost	 	
Ergometrine Maleate	 	
Gemeprost	 	
Oxytocin	 	
Dinoprostone	   	<b>RESTRICTED</b> Obs & Gynae Consultants only
<b>7.1.1.1 Drugs affecting the ductus arteriosus</b>		(see BNFC section 2.14)
<b>Maintenance of patency</b>		
Alprostadil	  	
<b>Closure of the ductus arteriosus</b>		
Indometacin	  	
<b>7.1.2 Mifepristone</b>		
Mifepristone	 	
<b>7.1.3 Myometrial relaxants</b>		
<b>Atosiban</b>		
Atosiban	  	<b>RESTRICTED</b> Obs & Gynae Consultants only
<b>Beta<sub>2</sub> agonists</b>		
Salbutamol	  	
injection (see also section 3.1.1.1)		
Terbutaline Sulfate	  	
injection (see also section 3.1.1.1)		

7.2 Treatment of vaginal & vulval conditions		GMMMG
<b>7.2.1 Preparations for vaginal &amp; vulval changes</b>		
<b>Oestrogens, topical</b>		
Estradiol (Vagifem®)	 	
10 microgram pessaries		
Estriol (Gynest®)	 	
0.01% cream		
Estradiol vaginal ring (Estring®)	 	<b>RESTRICTED</b> Obs & Gynae Consultants only
7.5 microgram / 24 hours ring		
<b>7.2.2 Vaginal &amp; vulval infections</b>		
<b>Preparations for vaginal &amp; vulval candidiasis</b>		
Clotrimazole	  	
Miconazole	  	
<b>Preparations for other vaginal infections</b>		
Clindamycin	  	
2% vaginal cream		
Nystatin	  	
Metronidazole (Zidoval®)	   	<b>RESTRICTED</b> Obs & Gynae Consultants only
0.75% vaginal gel		



7.3 Contraceptives		GMMMG
7.3.1 Combined hormonal contraceptives		NICE CG30
<i>Ethinylestradiol with Levonorgestrel</i>		NICE NG88
TriRegol®	  	
Microgynon 30®	  	
Ovranette®	  	
<i>Ethinylestradiol with Norethisterone</i>		
Loestrin 20®	  	
Loestrin 30®	  	
Ovysmen®	  	
Norimin®	  	
TriNovum®	  	
<i>Ethinylestradiol with Norgestimate</i>		
Cilest®	  	
<i>Ethinylestradiol with Desogestrel</i>		
Munalea®	  	2 <sup>nd</sup> line due to increased risk of VTE
Mercilon®	  	2 <sup>nd</sup> line due to increased risk of VTE
<i>Ethinylestradiol with Gestodene</i>		
Femodene®	  	2 <sup>nd</sup> line due to increased risk of VTE
Aidulan 20/75 microgram	  	2 <sup>nd</sup> line due to increased risk of VTE
<i>Mestranol with Norethisterone</i>		
Norinyl-1®	  	2 <sup>nd</sup> line due to increased risk of VTE
7.3.2 Progestogen-only contraceptives		
7.3.2.1 Oral progestogen-only contraceptives		
Desogestrel (Cerazette®)	  	
Levonorgestrel (Norgeston®)	  	
Norethisterone (Micronor®)	  	
Norethisterone (Noriday®)	  	



<b>7.3.2.2 Parenteral progestogen-only contraceptives</b>		
<b>Injectable preparations</b>		
Medroxyprogesterone Acetate (Depo-Provera®) 150mg/mL intramuscular injection	  	
Medroxyprogesterone Acetate (Sayana Press®) 160mg/mL subcutaneous injection	 <b>MMC</b>  	
<b>Implants</b>		
Etonogestrel (Nexplanon®) 68mg subdermal implant	 <b>MMC</b>  	<b>2<sup>nd</sup> line</b> in patients with heart disease & in women who've undergone a termination and who comply poorly with oral meds
<b>7.3.2.3 Intra-uterine progestogen-only device</b>		
Levonorgestrel (Mirena®) 20micrograms/24 hours IUD	  	
<b>7.3.5 Emergency contraception</b>		
Levonorgestrel (Levonelle® 1500)	  	
Ulipristal Acetate (ellaOne®)	 <b>MMC</b>  	<b>RESTRICTED</b> emergency contraception (SARC)
<b>Assisted Reproductive Technology (ART) cycles</b>		
Progesterone (Utrogestan®) 100mg; 200mg vaginal capsules	<b>MMC</b>  	<b>RESTRICTED ART cycles</b> <b>2<sup>nd</sup> line</b>

7.4 Drugs for genito-urinary disorders		GMMMG
7.4.1 Drugs for urinary retention		NICE CG97
Alpha blockers		NICE CG111
		NICE CG171
Alfuzosin Hydrochloride	BNF emc	
Tamsulosin Hydrochloride	BNF for children MMC BNF emc	
7.4.2 Drugs for urinary, enuresis & incontinence		
Urinary incontinence		NICE CG171
Oxybutynin Hydrochloride	NICE MMC BNF emc BNF for children	1 <sup>st</sup> line in OAB
Darifenacin Hydrobromide	NICE MMC BNF emc	1 <sup>st</sup> line in OAB
Tolterodine Tartrate	NICE MMC BNF emc BNF for children	1 <sup>st</sup> line in OAB
Solifenacin Succinate	MMC BNF emc	2 <sup>nd</sup> line in OAB patients failed / intolerant to oxybutynin
Duloxetine	MMC BNF emc	
Tropium Chloride	MMC BNF emc	<b>RESTRICTED</b> 1 <sup>RY</sup> Care referral only
Mirabegron	NICE MMC BNF emc	<b>RESTRICTED</b> in line with TA290 / Paeds 3 <sup>rd</sup> line use MHRA
Nocturnal enuresis		
Amitriptyline <a href="#">see also section 4.3.1</a>	BNF for children BNF emc	
Desmopressin <a href="#">see also section 6.5.2</a>	MMC BNF emc BNF for children	<b>RESTRICTED</b> Haematology Consultants only
7.4.3 Drugs used in urological pain		
Potassium Citrate	BNF for children BNF emc	
7.4.4 Bladder instillations & urological surgery		
Chlorhexidine 0.02% irrigation solution	BNF for children BNF emc	
Dimethyl Sulfoxide <b>U</b>	BNF emc	
Glycine irrigation solution	BNF emc	
Sodium Chloride 0.9% irrigation solution	BNF for children BNF emc	
Sodium Citrate 3% irrigation solution	BNF for children BNF emc	
Sodium Hyaluronate (Cystistat®)	MMC BNF emc BNF for children	<b>RESTRICTED</b> Urology Consultants only

**7.4.5 Drugs for erectile dysfunction**

Alprostadil

BNF  
for children

MMC BNF emc

**RESTRICTED**  
Urology Consultants only

Sildenafil

Green

Red

PAH

BNF  
for children

PbR X MMC BNF emc

**RESTRICTED**  
1<sup>RY</sup> Care referral only

Tadalafil

Red

PbR X MMC BNF emc

**RESTRICTED**  
1<sup>RY</sup> Care referral only


Vardenafil

Red

MMC BNF emc

**RESTRICTED**  
1<sup>RY</sup> Care referral only**7.4.6 Drugs for premature ejaculation****Not stocked**

## Section 8: Malignant disease & immunosuppression

Supported by the  formulary ([click here](#))

### 8.1 Cytotoxic drugs

- 8.1.1 Alkylating drugs
- 8.1.2 Anthracyclines & other cytotoxic antibiotics
- 8.1.3 Antimetabolites
- 8.1.4 Vinca alkaloids & etoposide
- 8.1.5 Other antineoplastic drugs

### 8.2 Drugs affecting the immune response

- 8.2.1 Antiproliferative immunosuppressants
- 8.2.2 Corticosteroids & other immunosuppressants
- 8.2.3 Anti-lymphocyte monoclonal antibodies
- 8.2.4 Other immunomodulating drugs

### 8.3 Sex hormones & hormone antagonists in malignant disease

- 8.3.1 Oestrogens
- 8.3.2 Progestogens
- 8.3.3 Androgens
- 8.3.4 Hormone Antagonists
  - 8.3.4.1 Breast Cancer
  - 8.3.4.2 Gonadorelin analogues & gonadotrophin-releasing hormone antagonists
  - 8.3.4.3 Somatostatin analogues

### 8.4 Miscellaneous preparations

## Trust Guidelines

Adult medicines and prescribing guidelines  
 Paediatric medicines and prescribing guidelines  
 Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)

## NICE Guidance

Early and locally advanced breast cancer: diagnosis and management (NG101)  
 Early and locally advanced breast cancer (CG80)  
 Advanced breast cancer (CG81)  
 Lung Cancer (CG121)  
 Colorectal cancer (CG131)  
 Familial breast cancer (CG164)  
 Hepatitis B (chronic) (CG165)  
 Prostate Cancer (CG175)  
 Temozolomide for malignant glioma (TA23)  
 Leukaemia (lymphocytic) - fludarabine (TA29)  
 Trastuzumab for advanced breast cancer (TA34)  
 Paclitaxel for ovarian cancer (TA55)  
 Capecitabine and Tegafur Uracil for Colorectal Cancer (TA61)  
 Imatinib for chronic myeloid leukaemia (TA70) (partially updated by TA425 & TA426)  
 Hepatitis C: Chronic (TA75) (extended by TA106 - partially updated by TA200 & TA300)  
 Gastrointestinal stromal tumours - imatinib (TA86) (partially updated by TA209)  
 Hepatitis B: Chronic (TA96) (partially updated by CG165)  
 Colon cancer (adjuvant) - capecitabine and oxaliplatin (TA100)  
 Docetaxel for prostate cancer (hormone-refractory) (TA101)  
 Hepatitis C: Peginterferon & Ribavirin (TA106) (partially updated by TA200 & TA300)  
 Trastuzumab for early breast cancer (TA107)  
 Paclitaxel for early breast cancer (TA108)  
 Docetaxel for early breast cancer (TA109)  
 Gemcitabine for Breast Cancer (TA116)  
 Bevacizumab & Cetuximab in metastatic colorectal cancer (TA118) (partially updated by TA242)  
 Leukaemia (lymphocytic) - fludarabine (TA119)  
 Carmustine implants and temozolomide for glioma (newly diagnosed & high grade) (TA121)  
 Pemetrexed for lung cancer (non small cell) (TA124)  
 Multiple sclerosis - natalizumab (TA127)  
 Bortezomib for relapsed multiple myeloma (TA129)  
 Pemetrexed for mesothelioma (TA135)  
 Rituximab for follicular non-Hodgkin's lymphoma (TA137)  
 Head and neck cancer - cetuximab (TA145)  
 Renal cell carcinoma - sunitinib (TA169)  
 Lenalidomide - multiple myeloma (TA171)  
 Rituximab for the first-line treatment of chronic lymphocytic leukaemia (TA174)  
 Cetuximab for the first-line treatment of metastatic colorectal cancer (TA176)  
 Renal Cell Carcinoma (TA178)  
 Sunitinib for gastrointestinal stromal tumours (TA179)  
 Pemetrexed for lung cancer (non-small cell) - first line treatment (TA181)  
 Cervical cancer (recurrent) - topotecan (TA183)  
 Lung cancer (small cell) - topotecan (TA184)  
 Soft tissue sarcoma - trabectedin (TA185)  
 Lung cancer (non-small-cell) - pemetrexed (maintenance) (TA190)  
 Gastric cancer (advanced) - capecitabine (TA191)  
 Lung cancer (non-small-cell, first line) - gefitinib (TA192)  
 Leukaemia (chronic lymphocytic, relapsed) - rituximab (TA193)  
 Gastrointestinal stromal tumours - imatinib (adjuvant) (TA196)  
 Hepatitis C - peginterferon alfa and ribavirin (TA200) (read in conjunction with TA75 & TA106)  
 Chronic lymphocytic leukaemia - ofatumumab (TA202)  
 Gastric cancer (HER2-positive metastatic) - trastuzumab (TA208)  
 Gastrointestinal stromal tumours (unresectable/metastatic) - imatinib (TA209) (part review of TA86)  
 Colorectal cancer (metastatic) - bevacizumab (TA212)  
 Breast cancer - bevacizumab (in combination with a taxane) (TA214) (replaces TA147)  
 Renal cell carcinoma (1<sup>st</sup> line metastatic) - pazopanib (TA215)  
 Bendamustine for the first-line treatment of chronic lymphocytic leukaemia (TA216)  
 Myelodysplastic syndrome - azacitidine (TA218)  
 Lymphoma (follicular non-Hodgkin's) - rituximab (TA226)  
 Multiple myeloma (1<sup>st</sup> line) - bortezomib and thalidomide (TA228)  
 Osteosarcoma - mifamurtide (TA235)  
 Follicular lymphoma - rituximab (review TA110) (TA243)  
 Multiple sclerosis (relapsing-remitting) - fingolimod (TA254)  
 Melanoma (stage III or IV) - ipilimumab (TA268)  
 Melanoma (BRAF V600 mutation positive, unresectable metastatic) - vemurafenib (TA269)  
 Urothelial tract carcinoma (transitional cell, advanced, metastatic) - vinflunine (TA272)  
 Bevacizumab in combination with paclitaxel & carboplatin for 1<sup>st</sup> line treatment of advanced ovarian cancer (TA284)  
 Ovarian, fallopian tube & primary peritoneal cancer - bevacizumab (TA285)  
 Hepatitis C (children and young people) - peginterferon alfa & ribavirin (TA300)  
 Multiple sclerosis (relapsing) - teriflunomide (TA303)  
 Lymphoma (non Hodgkin's, relapsed, refractory) - pixantrone monotherapy (TA306)



Vasculitis (anti-neutrophil cytoplasmic antibody-associated) - rituximab (with glucocorticoids) (TA308)  
 Multiple myeloma - bortezomib (induction therapy) (TA311)  
 Multiple sclerosis (relapsing-remitting) - alemtuzumab (TA312)  
 Ipilimumab for previously untreated advanced (unresectable or metastatic) melanoma (TA319)  
 Dimethyl fumarate for treating relapsing-remitting multiple sclerosis (TA320)  
 Dabrafenib for treating unresectable or metastatic BRAF V600 mutation-positive melanoma (TA321)  
 Lenalidomide for treating myelodysplastic syndromes associated with an isolated deletion 5q cytogenetic abnormality (TA322)  
 Imatinib for the adjuvant treatment of gastrointestinal stromal tumours (review of TA196) (TA326)  
 Axitinib for treating advanced renal cell carcinoma after failure of prior systemic treatment (TA333)  
 Obinutuzumab in combination with chlorambucil for untreated chronic lymphocytic leukaemia (TA343)  
 Ofatumumab in combination with chlorambucil or bendamustine for untreated chronic lymphocytic leukaemia (TA344)  
 Nintedanib for previously treated locally advanced, metastatic, or locally recurrent non-small-cell lung cancer (TA347)  
 Pembrolizumab for treating advanced melanoma after disease progression with ipilimumab (TA357)  
 Idelalisib for treating chronic lymphocytic leukaemia (TA359)  
 Pembrolizumab for advanced melanoma not previously treated with ipilimumab (TA366)  
 Bortezomib for previously untreated mantle cell lymphoma (TA370)  
 Erlotinib and gefitinib for treating non-small-cell lung cancer that has progressed after prior chemotherapy (TA374)  
 Enzalutamide for treating metastatic hormone-relapsed prostate cancer before chemotherapy is indicated (TA377)  
 Nintedanib for treating idiopathic pulmonary fibrosis (TA379)  
 Panobinostat for treating multiple myeloma after at least 2 previous treatments (TA380)  
 Olaparib for ovarian, fallopian tube and peritoneal cancer (TA381)  
 Nivolumab for treating advanced (unresectable or metastatic) melanoma (TA384)  
 Ruxolitinib for treating disease-related splenomegaly or symptoms in adults with myelofibrosis (TA386)  
 Abiraterone for treating metastatic hormone-relapsed prostate cancer before chemotherapy is indicated (TA387)  
 Topotecan, PLDH, paclitaxel, trabectedin & gemcitabine for recurrent ovarian cancer (TA389)  
 Cabazitaxel for hormone-relapsed metastatic prostate cancer treated with docetaxel (TA391)  
 Ceritinib for previously treated anaplastic lymphoma kinase positive non-small-cell lung cancer (TA395)  
 Trametinib in combination with dabrafenib for treating unresectable or metastatic melanoma (TA396)  
 Nivolumab in combination with ipilimumab for treating advanced melanoma (TA400)  
 Bosutinib for previously treated chronic myeloid leukaemia (TA401)  
 Pemetrexed maintenance treatment for non-squamous non-small-cell lung cancer after pemetrexed and cisplatin (TA402)  
 Degarelix for treating advanced hormone-dependent prostate cancer (TA404)  
 Trifluridine–tipiracil for previously treated metastatic colorectal cancer (TA405)  
 Crizotinib for untreated anaplastic lymphoma kinase-positive advanced non-small-cell lung cancer (TA406)  
 Pegaspargase for treating acute lymphoblastic leukaemia (TA408)  
 Talimogene laherparepvec for treating unresectable metastatic melanoma (TA410)  
 Radium-223 dichloride for treating hormone-relapsed prostate cancer with bone metastases (TA412)  
 Osimertinib for treating locally advanced or metastatic EGFR T790M mutation-positive non-small-cell lung cancer (TA416)  
 Nivolumab for previously treated advanced renal cell carcinoma (TA417)  
 Everolimus with exemestane for treating advanced breast cancer after endocrine therapy (TA421)  
 Crizotinib for previously treated anaplastic lymphoma kinase-positive advanced non-small-cell lung cancer (TA422)  
 Eribulin for treating locally advanced or metastatic breast cancer after 2 or more chemotherapy regimens (TA423)  
 Pertuzumab for the neoadjuvant treatment of HER2-positive breast cancer (TA424)  
 Dasatinib, nilotinib and high-dose imatinib for treating imatinib-resistant or intolerant chronic myeloid leukaemia (TA425)  
 Dasatinib, nilotinib and imatinib for untreated chronic myeloid leukaemia (TA426)  
 Pomalidomide for multiple myeloma previously treated with lenalidomide and bortezomib (TA427)  
 Pembrolizumab for treating PD-L1-positive non-small-cell lung cancer after chemotherapy (TA428)  
 Everolimus for advanced renal cell carcinoma after previous treatment (TA432)  
 Cetuximab and panitumumab for previously untreated metastatic colorectal cancer (TA439)  
 Everolimus & sunitinib for treating unresectable or metastatic neuroendocrine tumours (TA449)  
 Blinatumomab for previously treated Philadelphia-chromosome-negative acute lymphoblastic leukaemia (TA450)  
 Ponatinib for treating chronic myeloid leukaemia and acute lymphoblastic leukaemia (TA451)  
 Carfilzomib for previously treated multiple myeloma (TA457)  
 Trastuzumab emtansine for treating HER2-positive advanced breast cancer after trastuzumab and a taxane (TA458)  
 Nivolumab for treating relapsed or refractory classical Hodgkin lymphoma (TA462)  
 Cabozantinib for previously treated advanced renal cell carcinoma (TA463)  
 Olaratumab in combination with doxorubicin for treating advanced soft tissue sarcoma (TA465)  
 Obinutuzumab with bendamustine for treating follicular lymphoma refractory to rituximab (TA472)  
 Cetuximab for treating recurrent or metastatic squamous cell cancer of the head and neck (replaces TA172) (TA473)  
 Sorafenib for treating advanced hepatocellular carcinoma (replaces TA189) (TA474)  
 Paclitaxel with gemcitabine for untreated metastatic pancreatic cancer (replaces TA360) (TA476)  
 Brentuximab vedotin for treating relapsed or refractory systemic anaplastic large cell lymphoma (TA478)  
 Immunosuppressive therapy for kidney transplant in adults (replaces TA85) (TA481)  
 Immunosuppressive therapy for kidney transplant in children and young people (replaces TA99) (TA482)  
 Nivolumab for previously treated squamous non-small-cell lung cancer (TA483)  
 Nivolumab for previously treated non-squamous non-small-cell lung cancer (TA484)  
 Venetoclax for treating chronic lymphocytic leukaemia (TA487)  
 Regorafenib for previously treated unresectable or metastatic gastrointestinal stromal tumours (TA488)  
 Nivolumab for treating squamous cell carcinoma of the head and neck after platinum-based chemotherapy (TA490)  
 Ibrutinib for treating Waldenström's macroglobulinaemia (TA491)  
 Atezolizumab for untreated locally advanced or metastatic urothelial cancer when cisplatin is unsuitable (TA492)  
 Cladribine tablets for treating relapsing–remitting multiple sclerosis (TA493)  
 Palbociclib for previously untreated, locally advanced or metastatic breast cancer (TA495)  
 Ribociclib for previously untreated, locally advanced or metastatic breast cancer (TA496)  
 Lenvatinib with everolimus for previously treated advanced renal cell carcinoma (TA498)  
 Ceritinib for untreated ALK-positive non-small-cell lung cancer (TA500)  
 Intrabeam radiotherapy system for adjuvant treatment of early breast cancer (TA501)  
 Ibrutinib for treating relapsed or refractory mantle cell lymphoma (TA502)

Fulvestrant for untreated locally advanced or metastatic oestrogen-receptor positive breast cancer (TA503)  
Ixazomib with lenalidomide and dexamethasone for treating relapsed or refractory multiple myeloma (TA505)  
Pertuzumab with trastuzumab and docetaxel for treating HER2-positive breast cancer (TA509)  
Daratumumab monotherapy for treating relapsed and refractory multiple myeloma (TA510)  
Tivozanib for treating advanced renal cell carcinoma (TA512)  
Obinutuzumab for untreated advanced follicular lymphoma (TA513)  
Regorafenib for previously treated advanced hepatocellular carcinoma (TA514)  
Eribulin for treating locally advanced or metastatic breast cancer after 1 chemotherapy regimen (replaces TA250) (TA515)  
Cabozantinib for treating medullary thyroid cancer (TA516)  
Avelumab for treating metastatic Merkel cell carcinoma (TA517)  
Pembrolizumab for treating locally advanced or metastatic urothelial carcinoma (TA519)  
Atezolizumab for treating locally advanced or metastatic non-small-cell lung cancer after chemotherapy (TA520)  
Pembrolizumab for untreated locally advanced or metastatic urothelial cancer when cisplatin is unsuitable (TA522)  
Midostaurin for untreated acute myeloid leukaemia (TA523)  
Brentuximab vedotin for treating CD30-positive Hodgkin lymphoma (replaces TA446) (TA524)  
Atezolizumab for treating locally advanced or metastatic urothelial carcinoma (TA525)  
Arsenic trioxide for treating acute promyelocytic leukaemia (TA526)  
Beta interferons and glatiramer acetate for treating multiple sclerosis (replaces TA32) (TA527)  
Niraparib for maintenance treatment of relapsed, platinum-sensitive ovarian, fallopian tube and peritoneal cancer (TA528)  
Crizotinib for treating ROS1-positive advanced non-small-cell lung cancer (TA529)  
Nivolumab for treating locally advanced unresectable or metastatic urothelial cancer (TA530)  
Pembrolizumab for untreated PD-L1-positive metastatic non-small-cell lung cancer (TA531)  
Ocrelizumab for treating relapsing–remitting multiple sclerosis (TA533)  
Lenvatinib and sorafenib for treating differentiated thyroid cancer after radioactive iodine (TA535)  
Alectinib for untreated ALK-positive advanced non-small-cell lung cancer (TA536)  
Dinutuximab beta for treating neuroblastoma (TA538)  
Lutetium (177Lu) oxodotreotide for treating unresectable or metastatic neuroendocrine tumours (TA539)  
Pembrolizumab for treating relapsed or refractory classical Hodgkin lymphoma (TA540)  
Inotuzumab ozogamicin for treating relapsed or refractory B-cell acute lymphoblastic leukaemia (TA541)  
Cabozantinib for untreated advanced renal cell carcinoma (TA542)



























































## GMMMG Formulary

Formulary Homepage

Chapter 8: Malignant disease & immunosuppression (Complete)

GMMMG Adult [Red](#)/[Amber](#)/[Green](#); DNP and Grey Drug List


















































































































GMMMG Paediatric [Red](#)/[Amber](#)/[Green](#) Drug List

8.1 Cytotoxic drugs			GMMMG	
8.1 Cytotoxic drugs				
Calcium Folate			  	<b>RESTRICTED Haematology Consultants only</b>
Dexrazoxane	<b>Red</b>		<b>MMC</b>  	<b>RESTRICTED Haematology Consultants only</b>
Folinic Acid (as calcium folinate)			  	<b>RESTRICTED Haematology Consultants only</b>
Mesna			  	<b>RESTRICTED Haematology Consultants only</b>
Palifermin	<b>Red</b>		<b>MMC</b>  	<b>RESTRICTED Haematology Consultants only</b>
8.1.1 Alkylating drugs				
Busulfan	<b>Red</b>		 <b>MMC</b>  	<b>RESTRICTED Haematology Consultants only</b>
Bendamustine	<b>Red</b>		<b>MMC</b>  	<b>RESTRICTED Haematology Consultants only</b> 
Carmustine	<b>Red</b>		 	<b>RESTRICTED Haematology Consultants only</b>
Chlorambucil	<b>Red</b>		  	<b>RESTRICTED Haematology Consultants only</b>
Cyclophosphamide	<b>Red</b>		 <b>MMC</b>  	<b>RESTRICTED Haematology Consultants only</b>
Ifosfamide	<b>Red</b>		  	<b>RESTRICTED Haematology Consultants only</b>
Lomustine	<b>Red</b>		 	<b>RESTRICTED Haematology Consultants only</b>
Melphalan	<b>Red</b>		  	<b>RESTRICTED Haematology Consultants only</b>
Treosulfan	<b>Red</b>		<b>MMC</b>  	<b>RESTRICTED Adult Haematology / Paediatric Haematology / Oncology</b>
8.1.2 Anthracyclines & other cytotoxic antibiotics				
Bleomycin	<b>Red</b>		  	<b>RESTRICTED Haematology Consultants only</b>
Daunorubicin	<b>Red</b>		  	<b>RESTRICTED Haematology Consultants only</b>
Doxorubicin Hydrochloride	<b>Red</b>		  	<b>RESTRICTED Haematology Consultants only</b>
Idarubicin			 	<b>RESTRICTED Haematology Consultants only</b>
Mitomycin			<b>MMC</b>  	<b>RESTRICTED Consultants only</b>
Mitoxantrone			  	<b>RESTRICTED Haematology Consultants only</b>



Pixantrone				NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only
<b>8.1.3 Antimetabolites</b>								NICE CG81
								NICE CG131
Azacitidine	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only
Capecitabine	Red			NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only
Cladribine	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only
Clofarabine	Red					BNF for children	BNF emc	RESTRICTED Haematology Consultants only
Cytarabine	Red				MMC	BNF for children	BNF emc	RESTRICTED Haematology Consultants only
Fludarabine	Red			NICE		BNF for children	BNF emc	RESTRICTED Haematology Consultants only
Gemcitabine	Red			NICE		BNF	emc	RESTRICTED Haematology Consultants only
Mercaptopurine		Red				BNF for children	BNF emc	
see also section 1.5.3								
Methotrexate		Red			MMC	BNF for children	BNF emc	
see also sections 1.5.3, 10.1.3 & 13.5.3								
Pemetrexed	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Respiratory Consultants only in line with TA402
<b>8.1.4 Vinca alkaloids &amp; etoposide</b>								
Etoposide	Red					BNF for children	BNF emc	RESTRICTED Haematology Consultants only
Vinblastine Sulfate	Red					BNF for children	BNF emc	RESTRICTED Haematology Consultants only
Vincristine Sulfate	Red					BNF for children	BNF emc	RESTRICTED Haematology Consultants only
<b>8.1.5 Other antineoplastic drugs</b>								
Arsenic Trioxide	Red			NICE	MMC	BNF	emc	RESTRICTED Haem. Consultants only, also in line with NICE TA526
Asparaginase e-coli	Red				MMC	BNF for children	BNF emc	RESTRICTED Haematology Consultants only
Bortezomib	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only
Brentuximab Vedotin	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only
Cabozantinib	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Specialist Consultant use only in line with NICE NOT STOCKED
Carfilzomib	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Haematology Consultants only in line with NICE NOT STOCKED
Ceritinib	Red		PbR X	NICE	MMC	BNF	emc	RESTRICTED Respiratory Consultants only in line with NICE NOT STOCKED

Cetuximab	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Haematology Consultants only in line with NICE NOT STOCKED</b>
Crisantaspase	Red	BNF for children BNF emc	<b>RESTRICTED Haematology Consultants only</b>
Dacarbazine	Red	BNF for children BNF emc	<b>RESTRICTED Haematology Consultants only</b>
Eribulin	Red	NICE MMC BNF emc	<b>RESTRICTED Specialist Consultant use only in line with NICE NOT STOCKED</b>
Erlotinib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Respiratory Consultants only in line with NICE NOT STOCKED</b>
Everolimus	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Specialist Consultant use only in line with NICE NOT STOCKED</b>
Hydroxycarbamide	Red	BNF for children BNF emc	<b>RESTRICTED Haematology Consultants only</b>
see below			
Ipilimumab	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants only in line with NICE NOT STOCKED</b>
Ixazomib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Haematology Consultants only in line with NICE</b>
Midostaurin	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Haematology Consultants only in line with NICE</b>
Nintedanib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Respiratory Consultants only in line with NICE NOT STOCKED</b>
Niraparib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Gynaecology Consultants only in line with NICE NOT STOCKED</b>
Panitumumab	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Haematology Consultants only in line with NICE NOT STOCKED</b>
Panobinostat	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Haematology Consultants only in line with TA380</b>
Pegaspargase		BNF for children BNF emc	<b>RESTRICTED Haematology Consultants only</b>
Oncaspar®		PbR X NICE MMC BNF emc	
Pembrolizumab	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Consultants only in line with NICE NOT STOCKED</b>
Pentostatin	Red	BNF emc	<b>RESTRICTED Haematology Consultants only</b>
Pertuzumab	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Specialist Consultant use only in line with NICE NOT STOCKED</b>
Procarbazine	Red	NICE BNF emc	<b>RESTRICTED Haematology Consultants only</b>
Sorafenib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Haematology Consultants only on line with NICE</b>
Talimogene Laherparepvec		PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants only in line with TA410</b>
Trastuzumab	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED Specialist use only in line with NICE</b>

Venetoclax	    	<b>RESTRICTED Specialist use only in line with NICE TA487</b>
Hydroxycarbamide - Essential thrombocythaemia or polycythaemia with high risk of complications		
Hydroxycarbamide - Sickle Cell Disease		
Hydroxycarbamide - Chemotherapy		
<b>Platinum compounds</b>		
Cisplatin	   	<b>RESTRICTED Haematology Consultants only</b>
<b>Protein kinase inhibitors</b>		
Alectinib	    	<b>RESTRICTED Specialist use only in line with NICE TA536 NOT STOCKED</b>
Axitinib	    	<b>RESTRICTED Haematology Consultants only in line with NICE NOT STOCKED</b>
Bosutinib	     	<b>RESTRICTED Haematology Consultants only in line with TA401</b>
Crizotinib	     	<b>RESTRICTED Specialist use only in line with NICE NOT STOCKED</b>
Dabrafenib	     	<b>RESTRICTED Specialist use only in line with NICE TA321 NOT STOCKED</b>
Dasatinib	     	<b>RESTRICTED Haematology Consultants only</b>
Gefitinib	     	<b>RESTRICTED Specialist use only in line with NICE TA192 NOT STOCKED</b>
Ibrutinib	     	<b>RESTRICTED Haem. Consultants only / also in line with NICE</b> 
Idelalisib	     	<b>RESTRICTED Specialist use only in line with NICE TA359 NOT STOCKED</b>
Imatinib	      	<b>RESTRICTED Haematology Consultants only</b>
Lenvatinib (Kisplyx®)	    	<b>RESTRICTED Specialist use only in line with NICE TA498 NOT STOCKED</b>
Lenvatinib (Lenvima®)	    	<b>RESTRICTED Specialist use only in line with NICE TA535 NOT STOCKED</b>
Nilotinib	     	<b>RESTRICTED Haematology Consultants only</b>
Osimertinib	     	<b>RESTRICTED Specialist use only in line with NICE TA416 NOT STOCKED</b>
Palbociclib	     	<b>RESTRICTED Specialist use only in line with NICE TA495 NOT STOCKED</b>
Ponatinib	     	<b>RESTRICTED Specialist use only in line with NICE TA451</b> 
Regorafenib	     	<b>RESTRICTED Specialist use only in line with NICE TA488 NOT STOCKED</b>

Ribociclib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Specialist use only in line with NICE TA496 <b>NOT STOCKED</b>
Ruxolitinib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Haematology Consultants only in line with TA386
<b>Protein kinase inhibitors (cont.)</b>			
Sunitinib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Specialist use only in line with NICE <b>NOT STOCKED</b>
Tivozanib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Specialist use only in line with NICE <b>NOT STOCKED</b>
Trametinib	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Specialist use only in line with NICE TA396 <b>NOT STOCKED</b>
<b>Topoisomerase I inhibitors</b>			
Tretinoin	Red	BNF for children BNF emc	<b>RESTRICTED</b> Haematology Consultants only
<b>Taxanes</b>			
Paclitaxel	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Haematology Consultants only
Cabazitaxel	Red	PbR X NICE MMC BNF emc	<b>RESTRICTED</b> Haematology Consultants only



## 8.2 Drugs affecting the immune response



### 8.2.1 Antiproliferative immunosuppressants

Azathioprine	Amber	PbR X	NICE	BNF for children	BNF	emc	
Mycophenolate Mofetil	Amber	PbR X	NICE	MMC	BNF for children	BNF	emc
Belatacept Nulojix® 25mg/mL injection	U	PbR X	NICE	MMC	BNF	emc	

**RESTRICTED Renal Transplant Consultants only**  
**NOT STOCKED**

### 8.2.2 Corticosteroids & other immunosuppressants

Tacrolimus see below			NICE	MMC	BNF for children	BNF	emc
Antithymocyte immunoglobulin (Rabbit)		PbR X	NICE		BNF for children	BNF	emc
Ciclosporin (Deximune®) & I.V. (Sandimmun®) see below			NICE	MMC	BNF for children	BNF	emc
Sirolimus see below			NICE	MMC	BNF for children	BNF	emc
Basiliximab injection		PbR X	NICE	MMC	BNF for children	BNF	emc

**RESTRICTED Renal Consultants only**

**RESTRICTED Renal Consultants only**

Immunosuppressants - e.g. ciclosporin, tacrolimus, sirolimus

Amber

Red

If no SCP

### 8.2.3 Anti-lymphocyte monoclonal antibodies

Alemtuzumab	Red	PbR X	NICE	MMC	BNF	emc	
Atezolizumab	Red	PbR X	NICE	MMC	BNF	emc	
Avelumab	Red	PbR X	NICE	MMC	BNF	emc	
Blinatumomab	Red	PbR X	NICE	MMC	BNF	emc	
Burosumab				MMC	BNF	emc	
Daratumumab		PbR X	NICE	MMC	BNF	emc	
Obinutuzumab	Red	PbR X	NICE	MMC	BNF	emc	
Ofatumumab	Red	PbR X	NICE	MMC	BNF	emc	
Pertuzumab	Red	PbR X	NICE	MMC	BNF	emc	
Rituximab see also section 10.1.3		PbR X	NICE	MMC	BNF for children	BNF	emc

**RESTRICTED Renal Consultants only under Patient Access Scheme**

**RESTRICTED Urology Consultants only in line with NICE**

**RESTRICTED Dermatology Consultants only in line with NICE**

**RESTRICTED Haematology Consultants only in line with NICE**

**RESTRICTED X-linked hypophosphatemia**











































**RESTRICTED Haematology Consultants only in line with NICE**
































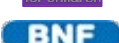


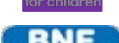


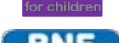





**RESTRICTED Haematology Consultants only in line with NICE**


**RESTRICTED Haematology Consultants only in line with NICE**

**RESTRICTED Haematology Consultants only in line with NICE**

**RESTRICTED Renal Consultants only**










8.2.4 Other immunomodulating drugs					
<b>Interferon alfa</b>					
Interferon alfa-2a	Red			 BNF 	
Roferon-A®		PbR X			
Interferon alfa-2b	Red			 BNF 	
IntronA®		PbR X			
Peginterferon alfa-2a	Red			 BNF 	<b>RESTRICTED Gastro Consultants only</b>
Pegasys®		PbR X	NICE 		
Peginterferon alfa-2b	Red			 BNF 	<b>RESTRICTED Gastro Consultants only</b>
ViraferonPeg®		PbR X	MMC		
<b>Interferon beta</b>					
Interferon beta-1a	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA527 NOT STOCKED</b>
		PbR X	NICE 		
Interferon beta-1b	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA527 NOT STOCKED</b>
		PbR X	NICE 		
<b>BCG bladder instillation</b>					
BCG bladder instillation	Red			BNF 	<b>RESTRICTED Specialist use only</b>
Immucyst®					
<b>Dimethyl Fumarate</b>					
Dimethyl Fumarate	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA320</b>
Tecfidera® 120mg; 240mg capsules			NICE 		
<b>Fingolimod</b>					
Fingolimod Hydrochloride				BNF 	<b>RESTRICTED Specialist use only in line with NICE TA254</b>
0.5mg capsules		PbR X	NICE 		
<b>Other Agents</b>					
Dinutuximab beta	Red			BNF 	<b>RESTRICTED Specialist use in line with CDF and NICE</b>
4.5mg/mL injection		PbR X	NICE 		
Glatiramer acetate	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA527 NOT STOCKED</b>
injection		PbR X	NICE 		
Lenalidomide	Red			BNF 	<b>RESTRICTED Haematology Consultants only</b>
capsules		PbR X	NICE 		
Mifamurtide	Red			 BNF 	<b>RESTRICTED Specialist use only in line with NICE TA235 NOT STOCKED</b>
Intravenous infusion			NICE 		
Natalizumab	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA127 NOT STOCKED</b>
infusion		PbR X	NICE 		
Nivolumab	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE</b>
10mg/mL infusion		PbR X	NICE 		
Ocrelizumab	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA533 NOT STOCKED</b>
30mg/mL infusion		PbR X	NICE 		
Olaparib	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA381 NOT STOCKED</b>
capsules; tablets		PbR X	NICE 		
Pomalidomide	Red			BNF 	<b>RESTRICTED Haematology only / also in line with NICE TA427</b>
capsules		PbR X	NICE 		
Teriflunomide	Red			BNF 	<b>RESTRICTED Specialist use only in line with NICE TA303 NOT STOCKED</b>
tablets		PbR X	NICE 		
Thalidomide	Red			BNF 	<b>RESTRICTED Haematology Consultants only</b>
capsules		PbR X	NICE 		

8.3 Sex hormones & hormone antagonists in malignant disease		GMMMG
<b>8.3.1 Oestrogens</b>		
Diethylstilbestrol	 	<b>RESTRICTED Specialist use only</b>
<b>8.3.2 Progestogens</b>		
Medroxyprogesterone Acetate	  	<b>RESTRICTED Specialist use only</b>
Megestrol Acetate	 	<b>RESTRICTED Specialist use only</b>
<b>8.3.3 Androgens</b>		
Testolactone	  	<b>RESTRICTED Specialist use only</b>
<b>8.3.4 Hormone Antagonists</b>		
<b>8.3.4.1 Breast Cancer</b>		
		<b>NICE NG101</b>
Aminoglutethimide	 	<b>RESTRICTED Specialist use only</b>
Anastrozole 	 <b>MMC</b>  	<b>RESTRICTED Specialist use only</b>
Exemestane 	 <b>MMC</b>  	<b>RESTRICTED Specialist use only</b>
Letrozole 	  	<b>RESTRICTED Specialist use only</b>
Tamoxifen 	  	<b>RESTRICTED Specialist use only</b>
<b>8.3.4.2 Gonadorelin analogues &amp; gonadotrophin-releasing hormone antagonists</b>		
<b>Gonadorelin analogues</b>		
Buserelin <a href="#">see also section 6.7.2</a>	 	<b>RESTRICTED Specialist use only</b>
Goserelin <a href="#">see below (also section 6.7.2)</a>	  	<b>RESTRICTED Specialist use only</b>
Leuprorelin Acetate <a href="#">see below (also section 6.7.2)</a>	  	<b>RESTRICTED Specialist use only</b>
Triptorelin <a href="#">see below (also section 6.7.2)</a>	  	<b>RESTRICTED Specialist use only</b>
Goserelin/Leuprorelin - Licensed Indications (pre-op management prior to endometrial ablation/fibroid surgery)		
Goserelin/Leuprorelin/Triptorelin - Licensed Indications (prostate cancer (all), breast cancer (goserelin))		
Goserelin/Leuprorelin/Triptorelin - Precocious puberty and for testosterone castration in sex offenders (unlicensed in goserelin and leuprorelin)		
Goserelin/Leuprorelin/Triptorelin - For all other unlicensed indications (including long term use > 6 months)		


<b>Anti-androgens</b>			
Bicalutamide	Green	BNF emc	<b>RESTRICTED Specialist use only</b>
Cyproterone Acetate <small>see also section 6.4.2</small>		BNF for children BNF emc	<b>RESTRICTED Specialist use only</b>
Flutamide		BNF emc	<b>RESTRICTED Specialist use only</b>
Enzalutamide	Red	NICE MMC BNF emc	<b>RESTRICTED Specialist use only</b>
Abiraterone	Red	NICE MMC BNF emc	<b>RESTRICTED Specialist use only</b>
<b>Gonadotrophin-releasing hormone antagonists</b>			
Degarelix <small>80mg; 120mg injection</small>		NICE MMC BNF emc	<b>RESTRICTED Specialist use only in line with NICE TA404</b>
<b>Other</b>			
Radium-223 dichloride <small>Xofigo® 1,100 kBq/mL injection</small>		NICE MMC BNF emc	<b>RESTRICTED Specialist use only in line with NICE TA412</b> 
<b>8.3.4.3 Somatostatin analogues</b>			
Lanreotide <small>injection (GMMMG restrictions - see below)</small>	PbR X	MMC BNF emc	<b>RESTRICTED Consultant only - acromegaly</b>
Octreotide <small>injection (GMMMG restrictions - see below)</small>	PbR X	BNF for children MMC BNF emc	<b>RESTRICTED 3<sup>rd</sup> line use Gastro. Consultant only</b>
Lutetium (177Lu) oxodotretotide <small>injection (GMMMG restrictions - see below)</small>	PbR X	NICE MMC BNF emc	<b>RESTRICTED Neuroendocrine tumours in line with NICE TA539</b>
Lanreotide/Octreotide - Licensed Indications			Amber
Lanreotide/Octreotide - Unlicensed Indications			Red



## 8.4 Miscellaneous preparations

<p>Glucarpidase (Voraxaze®) </p> <p>1,000 unit injection (see also sections 1.10, 10.4 &amp; 13.14)</p>	   	<p>2<sup>nd</sup> line rescue therapy in patients with delayed methotrexate excretion</p>
<p>Trifluridine / Tipiracil hydrochloride</p> <p>tablets</p>	   	<p><b>RESTRICTED</b> Specialist use only in line with NICE TA405</p>

## Section 9: Nutrition & blood

Supported by the   
formulary ([click here](#))

### 9.1 Anaemias and some other blood disorders

#### 9.1.1 Iron deficiency anaemias

##### 9.1.1.2 Parenteral iron

#### 9.1.2 Drugs used in megaoblastic anaemias

#### 9.1.3 Drugs used in hypoplastic, haemolytic & renal anaemias

#### 9.1.4 Drugs used in platelet disorders

#### 9.1.6 Drugs used in neutropenia

#### 9.1.7 Drugs used to mobilise stem cells

### 9.2 Fluids and electrolytes

#### 9.2.1 Oral preparations for fluid & electrolyte imbalance

#### 9.2.2 Parenteral preparations for fluid & electrolyte imbalance

### 9.3 Intravenous nutrition

### 9.4 Oral nutrition

### 9.5 Minerals

#### 9.5.1 Calcium and magnesium

#### 9.5.2 Phosphorus

#### 9.5.3 Fluoride

#### 9.5.4 Zinc

### 9.6 Vitamins

#### 9.6.1 Vitamin A

#### 9.6.2 Vitamin B group

#### 9.6.3 Vitamin C (Ascorbic acid)

#### 9.6.4 Vitamin D

#### 9.6.5 Vitamin E (Tocopherols)

#### 9.6.6 Vitamin K

#### 9.6.7 Multivitamin preparations

### 9.7 Bitters & tonics

### 9.8 Metabolic disorders

#### 9.8.1 Drugs used in metabolic disorders

#### 9.8.2 Acute porphyrias

## Trust Guidelines











































































Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)




































## NICE Guidance

Preventing recurrent hypomagnesaemia: oral magnesium glycerophosphate (ESUOM4)  
Coeliac disease: recognition, assessment and management (NG20)  
Nutrition support in adults (CG32)  
Chronic Kidney disease (stage 4 or 5): management of hyperphosphataemia (CG157)  
Eculizumab for treating atypical haemolytic uraemic syndrome (HST1)  
Elosulfase alfa for treating mucopolysaccharidosis type IVa (HST2)  
Migalastat for treating Fabry disease (HST4)  
Eliglustat for treating type 1 Gaucher disease (HST5)  
Asfotase alfa for treating paediatric-onset hypophosphatasia (HST6)  
Hyperparathyroidsism - cinacalcet (TA117)  
Thrombocytopenic purpura - romiplostim (TA221)  
Thrombocytopenic purpura - eltrombopag (TA293)  
Erythropoiesis-stimulating agents (epoetin & darbepoetin) for treating anaemia in chemotherapy (TA323)  
Etelcalcetide for treating secondary hyperparathyroidism (TA448)

## GMMMG Formulary

Formulary Homepage  
Chapter 9: Nutrition & Blood (Complete)  
GMMMG Adult [Red](#)/[Amber](#)/[Green](#); DNP and Grey Drug List  
GMMMG Paediatric [Red](#)/[Amber](#)/[Green](#) Drug List

9.1 Anaemias and some other blood disorders			GMMMG
<b>9.1.1 Iron deficiency anaemias</b>			
<b>9.1.1.1 Oral iron</b>			
Ferrous Sulfate		  	<b>1<sup>st</sup> line use</b>
<b>standard preparations only</b>			
Ferrous Fumarate		  	
Sodium Ferredetate		  	
<b>liquid only preparation</b>			
<b>Iron &amp; folic acid</b>			
Ferrous Sulfate		  	
Ferrous Fumarate		 	
<b>9.1.1.2 Parenteral iron</b>			
Ferric Carboxymaltose		   	<b>RESTRICTED</b>
Ferinject® injection			
Iron (III) Isomaltoside 1000		  	<b>RESTRICTED</b>
Monofer® injection			
Iron Sucrose		   	<b>RESTRICTED</b>
Venofer® injection			
<b>9.1.2 Drugs used in megaloblastic anaemias</b>			
Hydroxocobalamin		  	<b>1<sup>st</sup> line use</b>
Intramuscular injection			
<b>9.1.3 Drugs used in hypoplastic, haemolytic &amp; renal anaemias</b>			
<b>Erythropoietins</b>			
Darbepoetin Alfa		    	<b>RESTRICTED Renal Consultants only</b>
Epoetin Alfa		   	<b>RESTRICTED Renal Consultants only</b>
Epoetin Beta		   	<b>RESTRICTED Renal Consultants only</b>
<b>Sickle-cell disease</b>			
Hydroxycarbamide		  	<b>RESTRICTED Haematology Consultants only</b>
<b>Iron overload</b>			
Deferasirox		    	<b>RESTRICTED Haematology Consultants only</b>
Deferiprone		    	<b>RESTRICTED Haematology Consultants only</b>
Desferrioxamine Mesilate		   	<b>RESTRICTED Haematology Consultants only</b>
<b>Paroxysmal nocturnal haemoglobinuria &amp; atypical haemolytic uraemic syndrome</b>			
Eculizumab		     	<b>RESTRICTED Haematology Consultants only</b>

9.1.4 Drugs used in platelet disorders			
Anagrelide	Red	   	<b>RESTRICTED</b> Haematology Consultants only
Eltrombopag	Red	     	<b>RESTRICTED</b> Haematology Consultants only 
Romiplostim		     	<b>RESTRICTED</b> Haematology Consultants only
9.1.6 Drugs used in neutropenia			
Filgrastim	Red	    	<b>RESTRICTED</b> Haematology Consultants only
Lenograstim	Red	   	<b>RESTRICTED</b> Haematology Consultants only
Pegfilgrastim	Red	    	<b>RESTRICTED</b> Paediatric Haematology Consultants only
9.1.7 Drugs used to mobilise stem cells			
Plerixafor		   	<b>RESTRICTED</b> - initiation on advice of Haematology Consultant only <b>NHSE Commissioning</b>

## 9.2 Fluids and electrolytes



### 9.2.1 Oral preparations for fluid & electrolyte imbalance

#### 9.2.1.1 Oral potassium

Potassium Chloride

(Sando-K®) Liquid (Kay-Cee-L®)



#### Potassium removal

Calcium Polystyrene Sulfonate

Calcium Resonium®



#### 9.2.1.2 Oral sodium and water

Sodium Chloride (Slow Sodium®)

600mg M/R tabs



#### Oral Rehydration Therapy (ORT)

Oral Rehydration Salts (ORS)



#### 9.2.1.3 Oral bicarbonate

Sodium Bicarbonate

500mg caps; 8.4% (1mmol/mL) oral solution



### 9.2.2 Parenteral preparations for fluid & electrolyte imbalance

#### 9.2.2.1 Electrolytes & water

##### Intravenous sodium

Sodium Chloride



##### Sodium chloride with other ingredients

Sodium Chloride & Glucose



Sodium Chloride, Calcium Chloride & Potassium Chloride (Ringer's solution)



Sodium Chloride, Calcium Chloride, Potassium Chloride & Sodium Lactate



##### Intravenous glucose

Glucose



##### Intravenous potassium

Potassium Chloride and Glucose



Potassium Chloride and Sodium Chloride



Potassium Chloride, Sodium Chloride & Glucose



##### Bicarbonate and lactate

Sodium Bicarbonate

1.26%, 2.74%, 4.2% & 8.4% available





##### Water

Water for Injections



**9.2.2.2 Plasma & plasma substitutes**

Dextran	
Dextran 40 - 10% in sodium chloride 0.9%	
Dextrose Acid Citrate ACDA	
Gelatin (Gelofusine® infusion)	  

## 9.3 Intravenous nutrition



Prescribers should seek advice from the CMFT Nutrician Support Team (pager service 07659 526240) or the Dietetic Support Teams (General x64668; Renal x64478; Gastro x65781)

NICE CG32



































## 9.4 Oral nutrition





























































Prescribers should seek advice from the CMFT Nutrician Support Team (pager service 07659 526240) or the Dietetic Support Teams (General x64668; Renal x64478; Gastro x65781)

NICE CG32

9.5 Minerals		GMMMG	
<b>9.5.1 Calcium and magnesium</b>			
<b>9.5.1.1 Calcium supplements</b>			
<b>Oral preparations</b>			
Calcium Carbonate	Green	 BNF 	
Cacit®, Calcichew®, Calcium-500®			
Calcium Carbonate & Calcium Lactate Gluconate		 BNF 	
Sandocal® 1000			
<b>Parenteral preparations</b>			
Calcium Gluconate		 BNF 	
Calcium Chloride		 BNF 	
<b>with vitamin D</b>			
see section 9.6.4			
<b>with risedronate sodium &amp; colecalciferol</b>			
see section 6.6.2			
<b>9.5.1.2 Hypercalcaemia &amp; hypercalciuria</b>			
Cinacalcet	Red (2 <sup>ry</sup> HPT) Amber (1 <sup>ry</sup> HPT)	NICE  BNF 	RESTRICTED as per NICE TA117
Etelcalcetide			
		NICE  BNF 	RESTRICTED as per NICE TA448
<b>9.5.1.3 Magnesium</b>			
NICE ESUOM4			
Magnesium Aspartate Dihydrate		 MMC  	1 <sup>st</sup> line use
Magnaspartate®			
Magnesium Glycerophosphate		NICE  BNF 	
Magnesium Sulphate		 BNF 	
Magnesium Sulphate 20%; 50%			
<b>9.5.2 Phosphorus</b>			
<b>9.5.2.1 Phosphate supplements</b>			
Phosphates (Polyfusor®)	Red	 BNF 	I.V. preparation
Phosphates (Phosphate-Sandoz®)			
		 BNF 	Effervescent tabs
<b>9.5.2.2 Phosphate-binding agents</b>			
NICE CG157			
Aluminium Hydroxide	Green	 BNF 	
Calcium Carbonate	Green	 BNF 	
see also section 9.5.1.1			
Calcium Acetate	Green	 MMC  	
Calcium Acetate / Magnesium Carbonate (Osvaren®)	Green	MMC  	RESTRICTED Renal Consultants only
















Lanthanum	Green	MMC BNF emc	RESTRICTED Renal Consultants only
Sevelamer Carbonate	Green	MMC BNF emc BNF for children	RESTRICTED Renal Consultants only
Sucroferric Oxyhydroxide	Red	MMC BNF emc	RESTRICTED Renal Consultants only - 3 <sup>rd</sup> line
<b>9.5.3 Fluoride</b>			
Sodium Fluoride		BNF for children BNF emc	
tablets, paediatric drops, dental rinse			
<b>9.5.4 Zinc</b>			
Zinc Sulfate		BNF for children BNF emc	
Solvazinc® 125mg effervescent tabs; Zincomed® 220mg capsules			

9.6 Vitamins		GMMMG	
<b>9.6.1 Vitamin A</b>			
Vitamin A		  	
150,000units/mL drops			
Vitamin A Palmitate		  	
100,000units/2mL injection			
Vitamins A & D		  	
capsules			
<b>9.6.2 Vitamin B group</b>			
Pyridoxine Hydrochloride		  	
Thiamine		  	
Vitamin B Compound		  	
Vitamin B Compound Strong		  	
Vitamins B & C		 	
Pabrinex® Intramuscular (IM) & Intravenous (IV) injection			
<b>9.6.3 Vitamin C (Ascorbic acid)</b>			
Ascorbic acid		  	
<b>9.6.4 Vitamin D</b>			
Alfacalcidol		  	
Calcitriol		  	
<b>Vitamin D and calcium</b>			
Colecalciferol		  	<b>1<sup>st</sup> line use</b>
Calcichew D3® Forte tablets			
Calcium & Ergocalciferol		  	
calcium 97mg/vitamin D 400units			
Colecalciferol		  	
Cacit® D3 effervescent granules			
<b>9.6.5 Vitamin E (Tocopherols)</b>			
Alpha Tocopheryl Acetate (Vitamin E)		  	
500mg/5mL liquid			
Alpha Tocopheryl Acetate (Vitamin E)		  	
75 unit capsules			
<b>9.6.6 Vitamin K</b>			
Phytomenadione		   	
Konakion® MM & Konakion® MM Paediatric			
Menadiol Sodium Phosphate		   	


9.6.7 Multivitamin preparations		
Vitamins B,C Renavit® tablets	<b>MMC</b> <b>BNF</b> <b>emc</b> 	<b>RESTRICTED</b>
Vitamins A,D,E,K Paravit-CF®	<b>MMC</b> <b>BNF</b> <b>emc</b> 	<b>RESTRICTED</b> Paediatric CF patients

## 9.7 Bitters & tonics

Mixtures containing simple and aromatic bitters are traditional remedies for loss of appetite; there is no evidence to support their use

9.8 Metabolic disorders			
9.8.1 Drugs used in metabolic disorders			
<b>Wilson's Disease</b>			
Penicillamine		  	
<a href="#">see also section 10.1.3</a>			
Trientine Dihydrochloride	<b>Red</b>	 <b>MMC</b>  	<b>3<sup>rd</sup> line use</b>
<b>Carnitine Deficiency</b>			
Levocarnitine		   	<b>RESTRICTED Specialist use only</b>
<b>Fabry's disease</b>			
Agalsidase Alfa		  <b>MMC</b>  	<b>RESTRICTED Specialist use only - not stocked</b>
Migalastat		   <b>MMC</b>  	<b>RESTRICTED Specialist use only in line with NICE HST4</b>
<b>Mucopolysaccharidosis</b>			
Galsulfase		  <b>MMC</b>  	<b>RESTRICTED Specialist use only - not stocked</b>
Laronidase		  <b>MMC</b>  	<b>RESTRICTED Specialist use only - not stocked</b>
Elosulfase		   <b>MMC</b>  	<b>RESTRICTED Specialist use only in line with NICE HST2</b>
<b>Nephropathic cystinosis</b>			
Cystagon® (Mercaptamine)		   	<b>RESTRICTED Specialist use only</b>
<b>NB: prescribe as CYSTAGON®</b>			
<b>Tyrosinemia type I</b>			
Nitisinone		  <b>MMC</b>  	<b>RESTRICTED Specialist use only</b>
<b>Urea cycle disorders</b>			
<b>BIMDG</b>			
Carglumic Acid		  <b>MMC</b>  	<b>RESTRICTED Specialist use only</b>
Sodium Phenylbutyrate		  <b>MMC</b>  	<b>RESTRICTED Specialist use only</b>
<b>Homocystinuria</b>			
<b>BIMDG</b>			
Betaine	<b>Red</b>	   	<b>RESTRICTED Specialist use only</b>
Sodium Benzoate		   	<b>RESTRICTED Specialist use only</b>
Uridine		 <b>MMC</b>  	<b>RESTRICTED Specialist use only</b>
<b>Other metabolic disorders</b>			
Eliglustat		   <b>MMC</b>  	<b>RESTRICTED Specialist use only in line with NICE HST5</b>
Asfotase alfa		   <b>MMC</b>  	<b>RESTRICTED Specialist use only in line with NICE HST6</b>
<b>9.8.2 Acute porphyrias</b>			
Haem Arginate		   	

## Section 10: Musculoskeletal & Joint Diseases

Supported by the  
formulary (click here 

### 10.1 Drugs used in rheumatic diseases & gout

- 10.1.1 Non-steroidal anti-inflammatory drugs
- 10.1.2 Corticosteroids
- 10.1.3 Drugs that suppress the rheumatic disease process
  - Gold
  - Penicillamine
  - Antimalarials
  - Drugs affecting the immune response
  - Cytokine modulators
- 10.1.4 Gout and cytotoxic induced hyperuricaemia
- 10.1.5 Other drugs for rheumatic diseases

### 10.2 Drugs used in neuromuscular disorders

- 10.2.1 Drugs that enhance neuromuscular transmission
- 10.2.2 Skeletal muscle relaxants
  - Nocturnal leg cramps
- 10.2.3 Drugs used in muscular dystrophy

### 10.3 Drugs for the relief of soft-tissue inflammation

- 10.3.1 Enzymes
- 10.3.2 Rubefacients & other topical antirheumatics

### 10.4 Miscellaneous preparations



## Trust Guidelines
































[Adult medicines and prescribing guidelines](#)  
[Paediatric medicines and prescribing guidelines](#)  
[Neonatal guidelines \(link to Staffnet site\)](#)  
[Non-formulary Conversion Table](#)









































































































## NICE Guidance














[Biosimilar Medicines \(KTT15\)](#)  
[Osteoarthritis \(CG177\)](#)  
[Rheumatoid arthritis in adults: management \(NG100\)](#)  
[Ataluren for treating Duchenne muscular dystrophy with a nonsense mutation in the dystrophin gene \(HST3\)](#)  
[Hyperuricaemia - febuxostat \(TA164\)](#)  
[Psoriasis - ustekinumab \(TA180\)](#)  
[Rheumatoid arthritis - drugs for treatment after failure of a TNF inhibitor \(TA195\)](#)  
[Psoriatic arthritis - etanercept, infliximab and adalimumab \(TA199\)](#)  
[Psoriatic arthritis - golimumab \(TA220\)](#)  
[Rheumatoid arthritis \(after the failure of previous DMARDs\) - golimumab \(TA225\)](#)  
[Arthritis \(juvenile idiopathic, systemic\) - tocilizumab \(TA238\)](#)  
[Rheumatoid arthritis - tocilizumab \(rapid review TA198\) \(TA247\)](#)  
[Vasculitis \(anti-neutrophil cytoplasmic antibody-associated\) - rituximab \(with glucocorticoids\) \(TA308\)](#)  
[Ustekinumab for treating active psoriatic arthritis \(rapid review of TA313\) \(TA340\)](#)  
[Abatacept, adalimumab, etanercept and tocilizumab for treating juvenile idiopathic arthritis \(TA373\)](#)  
[Adalimumab, etanercept, infliximab, certolizumab, golimumab, tocilizumab & abatacept for rheumatoid arthritis \(TA375\)](#)  
[TNF-alpha inhibitors for ankylosing spondylitis and non-radiographic axial spondyloarthritis \(TA383\)](#)  
[Belimumab for treating active autoantibody-positive systemic lupus erythematosus \(TA397\)](#)  
[Certolizumab pegol for treating rheumatoid arthritis after inadequate response to a TNF-alpha inhibitor \(TA415\)](#)  
[Certolizumab pegol and secukinumab for treating active psoriatic arthritis after inadequate response to DMARDs \(TA445\)](#)  
[Collagenase clostridium histolyticum for treating Dupuytren's contracture \(TA459\)](#)  
[Adalimumab and dexamethasone for treating non-infectious uveitis \(TA460\)](#)  
[Baricitinib for moderate to severe rheumatoid arthritis \(TA466\)](#)  
[Autologous chondrocyte implantation for treating symptomatic articular cartilage defects of the knee \(replaces TA89\) \(TA477\)](#)  
[Tofacitinib for moderate to severe rheumatoid arthritis \(TA480\)](#)  
[Sarilumab for moderate to severe rheumatoid arthritis \(TA485\)](#)  
[Lesinurad for treating chronic hyperuricaemia in people with gout \(TA506\)](#)  
[Autologous chondrocyte implantation using chondrosphere for symptomatic articular cartilage defects of the knee \(TA508\)](#)  
[Tocilizumab for treating giant cell arteritis \(TA518\)](#)  
[Ixekizumab for treating active psoriatic arthritis after inadequate response to DMARDs \(TA537\)](#)  
[Tofacitinib for treating active psoriatic arthritis after inadequate response to DMARDs \(TA543\)](#)

## GMMMG Formulary

[Formulary Homepage](#)  
[Chapter 10: Musculoskeletal & Joint Diseases \(Complete\)](#)  
[GMMMG Adult Red/Amber/Green; DNP and Grey Drug List](#)  
[GMMMG Paediatric Red/Amber/Green Drug List](#)

10.1 Drugs used in rheumatic diseases & gout		GMIMG	
<b>10.1 Drugs used in rheumatic diseases &amp; gout</b>			
<b>10.1.1 Non-steroidal anti-inflammatory drugs (NSAIDs)</b>			
		<b>NICE NG100</b>	
Ibuprofen		 BNF 	<b>1<sup>st</sup> line use</b>
200mg; 400mg; 600mg tablets			
Naproxen		 BNF 	
250mg; 500mg tablets			
Diclofenac Sodium	MMC	 BNF 	<b>RESTRICTED - acute post-operative pain</b>
50mg tablets			
Flurbiprofen		 BNF 	
50mg tablets			
Mefenamic Acid		 BNF 	
250mg; 500mg tablets			
Meloxicam		 BNF 	
7.5mg; 15mg tablets			
Sulindac		BNF 	
100mg; 200mg tablets			
Etodolac	MMC	BNF 	<b>RESTRICTED Consultant Anaesthetist use only</b>
600mg tablets			
Phenylbutazone		BNF 	<b>RESTRICTED Specialist use only, ankylosing spondylitis</b>
100mg; 200mg tablets			
<b>10.1.2 Corticosteroids</b>			
<b>10.1.2.1 Systemic corticosteroids</b>			
		<b>NICE NG100</b>	
Prednisolone		 BNF 	
<b>10.1.2.2 Local corticosteroid injections</b>			
		<b>NICE NG100</b>	
Hydrocortisone Acetate		 BNF 	
25mg/mL injection			
Methylprednisolone Acetate		 BNF 	
40mg/mL injection			
Triamcinolone Acetonide		 BNF 	
10mg/mL; 40mg/mL injection			
Triamcinolone Hexacetonide	MMC	 BNF 	<b>RESTRICTED Paediatric Rheumatology Consultants only</b>
20mg/mL injection			
<b>10.1.3 Drugs that suppress the rheumatic disease process</b>			
<b>Gold</b>		<b>NICE NG100</b>	
Auranofin	Amber	BNF 	<b>RESTRICTED Rheumatology Consultants only</b>
tablets			
Sodium Aurothiomalate	Amber	BNF 	<b>RESTRICTED Rheumatology Consultants only</b>
injection			
<b>Penicillamine</b>			
Penicillamine	Amber	 BNF 	<b>RESTRICTED Rheumatology Consultants only</b>
tablets			
<b>Antimalarials</b>			
Hydroxychloroquine	Amber	MMC  BNF 	<b>RESTRICTED Rheumatology Consultants only</b>

<b>Drugs affecting the immune response</b>				<b>NICE NG100</b>	
Azathioprine	Amber			  	<b>RESTRICTED</b> Rheumatology Consultants only
see also section 8.2.1					
Ciclosporin	Amber			   	<b>RESTRICTED</b> Consultants only
see also sections 8.2.2 & 13.5.3					
Leflunomide	Amber			  	<b>RESTRICTED</b> Rheumatology Consultants only
Methotrexate	Amber (oral)	Red (parenteral)		   	<b>RESTRICTED</b> Consultants only
see also sections 1.5.3, 8.1.3 & 13.5.3					
<b>Cytokine modulators</b>					
Abatacept	Red			     	<b>RESTRICTED</b> Rheumatology Consultants only
Adalimumab	Red			     	<b>RESTRICTED</b> Consultants only in line with NICE guidance
see also sections 1.5.3 & 13.5.3					
Anakinra	Red			    	<b>RESTRICTED</b> Consultants only in line with NICE guidance
Baricitinib	Red			    	<b>RESTRICTED</b> Rheumatology Consultants only in line with NICE
Belimumab	Red			    	<b>RESTRICTED</b> Consultants only. Financial approval for each patient
Certolizumab	Red			     	<b>RESTRICTED</b> Rheumatology Consultants in line with NICE
see also section 13.5.3					
Etanercept	Red			     	<b>RESTRICTED</b> Consultants only; in line with NICE guidance
Golimumab	Red			    	<b>RESTRICTED</b> Consultants only in line with NICE guidance
Infliximab	Red			     	<b>RESTRICTED</b> Consultants only in line with NICE guidance <b>MMC Remsima</b>
Ixekizumab	Red			    	<b>RESTRICTED</b> Consultants only in line with NICE guidance
80mg/1mL injection (see also section 13.5.3)					
Rituximab	Red			     	<b>RESTRICTED</b> Consultants only in line with NICE guidance
see also section 8.2.3					
Sarilumab				    	<b>RESTRICTED</b> Rheumatology Consultants only in line with NICE
Secukinumab	Red			    	<b>RESTRICTED</b> Rheumatology Consultants only in line with NICE
Tocilizumab	Red			     	<b>RESTRICTED</b> Consultants only in line with NICE guidance
Tofacitinib	Red			    	<b>RESTRICTED</b> Rheumatology Consultants only in line with NICE
Ustekinumab	Red			     	<b>RESTRICTED</b> Dermatology TA340 / Gastro 3 <sup>rd</sup> line Crohn's
see also section 13.5.3					
<b>10.1.4 Gout and cytotoxic induced hyperuricaemia</b>					
<b>Acute attacks of gout</b>					
Colchicine				 	

<b>Long-term control of gout</b>		
Allopurinol	  	<b>1<sup>st</sup> line use</b>
Febuxostat 	   	<b>RESTRICTED Rheumatology Consultants only</b>
<b>Hyperuricaemia associated with cytotoxic drugs</b>		
Rasburicase	    	<b>RESTRICTED Haematology Consultants only</b>
<b>10.1.5 Other drugs for rheumatic diseases</b>		<b>NICE CG177</b>
		<b>NICE TA477</b>
		<b>NICE TA508</b>

10.2 Drugs used in neuromuscular disorders		GMMMG
<b>10.2.1 Drugs that enhance neuromuscular transmission</b>		
<b>Anticholinesterases</b>		
Pyridostigmine Bromide	  	<b>1<sup>st</sup> line use</b>
Neostigmine	  	
Edrophonium Chloride	  	<b>RESTRICTED - diagnosis of myasthenia gravis</b> <b>Licensed product discontinued</b>
<b>10.2.2 Skeletal muscle relaxants</b>		
Baclofen 10mg tablets; 5mg/mL oral solution	  	<b>1<sup>st</sup> line use</b>
Dantrolene Sodium 25mg; 100mg capsules	  	
Diazepam <a href="#">see also sections 4.1.2, 4.8 &amp; 15.1.4.1</a>	  	
Tizanidine <span style="background-color: orange; padding: 2px;">Amber</span> 2mg; 4mg tablets	 	<b>RESTRICTED Consultant Neurologist only</b>
<b>Nocturnal leg cramps</b>		
Quinine Sulfate <a href="#">see also section 5.4.1</a>	  	
<b>10.2.3 Drugs used in muscular dystrophy</b>		
Ataluren oral suspension sachets	     	<b>Specialist use only in line with NICE HST3</b>
Nusinersen injection	     	<b>Specialist use only for Spinal Muscular Atrophy (SMA) type 1</b> <b>Named patient access</b>

10.3 Drugs for the relief of soft-tissue inflammation		GMMMG
<b>10.3.1 Enzymes</b>		
Collagenase <i>Clostridium histolyticum</i> Xiapex®	PbR X NICE MMC BNF emc+	Specialist use only in line with NICE TA459
Hyaluronidase	BNF for children BNF emc+	RESTRICTED extravasation
<b>10.3.2 Rubefacients &amp; other topical antirheumatics</b>		
Piroxicam 0.5% gel	BNF for children BNF emc+	
Capsaicin cream, patch	MMC BNF emc+	Patch restricted to peripheral neuropathic pain specialists at TGH

## 10.4 Miscellaneous preparations

Glucarpidase (Voraxaze®)




1,000 unit injection (see also sections 1.10, 8.4 & 13.14)



2<sup>nd</sup> line rescue therapy in patients with delayed methotrexate excretion

## Section 11: Eye

Supported by the   
formulary ([click here](#))

### 11.3 Anti-infective eye preparations

11.3.1 Antibacterials

11.3.3 Antivirals

### 11.4 Corticosteroid & other anti-inflammatory preparations

11.4.1 Corticosteroids

11.4.2 Other anti-inflammatory preparations

### 11.5 Mydriatics & cycloplegics

### 11.6 Treatment of glaucoma

### 11.7 Local anaesthetics

### 11.8 Miscellaneous ophthalmic preparations

11.8.1 Tear deficiency, ocular lubricants & astringents

11.8.2 Ocular diagnostic & peri-operative preparations & photodynamic treatment



## Trust Guidelines

Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)

## NICE Guidance

Glaucoma: diagnosis and management (NG81)  
Macular degeneration (age related) ranibizimab & pegaptanib (TA155)  
Macular oedema (retinal vein occlusion) - dexamethasone (TA229)  
Macular oedema (diabetic) - ranibizumab (TA274)  
Macular oedema (retinal vein occlusion) - ranibizumab (TA283)  
Macular degeneration (wet age-related) - aflibercept (1<sup>st</sup> line) (TA294)  
Vitreomacular traction - ocriplasmin (TA297)  
Choroidal neovascularisation (pathological myopia) - ranibizumab (TA298)  
Diabetic macular oedema - fluocinolone acetonide intravitreal implant (rapid review of TA271) (TA301)  
Macular oedema (central retinal vein occlusion) - aflibercept solution for injection (TA305)  
Aflibercept for treating diabetic macular oedema (TA346)  
Dexamethasone intravitreal implant for treating diabetic macular oedema (TA349)  
Ciclosporin for treating dry eye disease that has not improved despite treatment with artificial tears (TA369)  
Aflibercept for treating visual impairment caused by macular oedema after branch retinal vein occlusion (TA409)  
Adalimumab and dexamethasone for treating non-infectious uveitis (TA460)  
Holoclax for treating limbal stem cell deficiency after eye burns (TA467)  
Aflibercept for treating choroidal neovascularisation (TA486)  
Cenegermin for treating neurotrophic keratitis (TA532)

## GMMMG Formulary

Formulary Homepage  
Chapter 11: Eye (Complete)  
GMMMG Adult [Red/Amber/Green](#); DNP and Grey Drug List  
GMMMG Paediatric [Red/Amber/Green](#) Drug List

## 11.3 Anti-infective eye preparations



### 11.3.1 Antibacterials

Chloramphenicol 0.5% eye drops, 1% eye ointment		  	
Fusidic Acid (ophthalmic) 1% eye drops		  	
Amikacin (ophthalmic) 2.5% eye drops	<b>U</b>	  	<b>RESTRICTED</b> microbial keratitis. Consultant Ophthalmologist only <b>NOT STOCKED</b>
Amphotericin 0.15% eye drops		  	<b>RESTRICTED</b> Consultant Ophthalmologist only
Ceftazidime (ophthalmic) 5% eye drops	<b>U</b>	  	<b>RESTRICTED</b> Consultant Ophthalmologist only <b>NOT STOCKED</b>
Cefuroxime (ophthalmic) 5% eye drops	<b>U</b>	  	<b>RESTRICTED</b> Consultant Ophthalmologist only
Chlorhexidine (ophthalmic) 0.02% eye drops	<b>U</b>	  	<b>RESTRICTED</b> acanthamoeba keratitis. Consultant only
Ciprofloxacin (ophthalmic) 0.3% eye drops		  	<b>RESTRICTED</b> microbial keratitis. Consultant Ophthalmologist only
Erythromycin (ophthalmic) 0.5% eye ointment	<b>U</b>	  	<b>RESTRICTED</b> superficial eye infections
Gentamicin (ophthalmic) 1.5% eye drops (Use with cefuroxime eye drops)	<b>U</b>	  	<b>RESTRICTED</b> Consultant Ophthalmologist only
Levofloxacin (ophthalmic) 0.5% eye drops		 <b>MMC</b> 	<b>RESTRICTED</b> Consultant only corneal ulcers/ keratitis
Ofloxacin 0.3% eye drops		 <b>MMC</b> 	<b>RESTRICTED</b> Consultant Ophthalmologist only
Penicillin (ophthalmic) 2,500 units/mL eye drops	<b>U</b>	  	<b>RESTRICTED</b> microbial keratitis. Consultant Ophthalmologist only
Polyhexamethylene Biguanide (PHMB) 0.02% eye drops	<b>U</b>	  	<b>NOT STOCKED</b>
Polymyxin B Sulfate eye ointment		  	<b>RESTRICTED</b> gram negative bacteria, including pseudomonas
Propamidine Isetionate 0.1% eye drops		  	<b>RESTRICTED</b> Consultant Ophthalmologist only
Vancomycin (ophthalmic) 5% eye drops	<b>U</b>	  	<b>RESTRICTED</b> gram positives, including MRSA but not VRE <b>NOT STOCKED</b>
Natamycin 5% eye drops	<b>U</b>	  	<b>RESTRICTED</b> fungal keratitis, conjunctivitis, fungal blepharitis
<b>11.3.3 Antivirals</b>			
Aciclovir 3% eye ointment		  	
Trifluorothymidine 1% eye drops	<b>U</b>	  	

## 11.4 Corticosteroid & other anti-inflammatory preparations



### 11.4.1 Corticosteroids

Betamethasone

0.1% eye drops & ointment



Dexamethasone

0.1% eye drops & minims



Dexamethasone (Intravitreal implant)

700micrograms intravitreal implant



**RESTRICTED** as per NICE TA229;  
TA349 & TA460

Fluocinolone Acetonide

190micrograms intravitreal implant



**RESTRICTED** as per NICE TA301 and  
uveitis (off-label)

Prednisolone

0.5% eye drops; 1% eye drops; 0.5% minims



Fluorometholone

0.1% eye drops



Triamcinolone Acetonide (Triesence®)

40mg/mL injectable suspension



**RESTRICTED** uveitis; sympathetic  
ophthalmia

### Corticosteroids preparations with antibiotics

Betamethasone / Neomycin Sulphate

0.1% / 0.5% eye drops (Betnesol-N®)



Dexamethasone / Neomycin Sulphate / Polymyxin B Sulphate

1 mg/mL : 3500 IU/mL : 6000 IU/mL (Maxitrol® eye drops & ointment)



### 11.4.2 Other anti-inflammatory preparations

Sodium Cromoglicate

2% eye drops



Antazoline with Xylometazoline

0.5% eye drops



Azelastine

0.05% eye drops



**RESTRICTED** allergic conjunctivitis,  
children only

Lodoxamide

0.1% eye drops



**RESTRICTED** allergic conjunctivitis

Olopatadine

1mg/mL eye drops













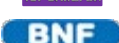




**RESTRICTED** Seasonal allergic  
conjunctivitis

Potassium Ascorbate

10% eye drops



**RESTRICTED** for management of  
chemical burns to the cornea

11.5 Mydriatics & cycloplegics		GMMMG
<b>Antimuscarinics</b>		
Atropine Sulphate 1% minims	  	
Cyclopentolate Hydrochloride 1% eye drops, 0.5%, 1% minims	  	
Tropicamide 0.5%, 1% eye drops, 0.5%, 1% minims	  	
<b>Sympathomimetics</b>		
Phenylephrine Hydrochloride 2.5%, 10% minims	  	<b>10% contraindicated in children &amp; the elderly</b>
<b>Sympathomimetics with tropicamide</b>		
Phenylephrine Hydrochloride with Tropicamide (Mydriaser®) 5.4mg / 280micrograms ophthalmic insert	  	<b>RESTRICTED Pre-operative mydriasis in cataract patients</b>

# 11.6 Treatment of glaucoma



NICE NG81

## Beta-blockers

Timolol			
0.25%, 0.5% eye drops			
Timolol once daily			
0.25%, 0.5% long-acting ophthalmic gel			
Betaxolol			
0.25%, 0.5% eye drops, 0.25% minims			
Levobunolol Hydrochloride			
0.5% eye drops			

## Prostaglandin analogues and prostamides

Travoprost		<b>MMC</b>		
40 microgram/mL eye drops				
Latanoprost				
50 microgram/mL eye drops				
Latanoprost (preservative free)		<b>MMC</b>		
50 microgram/mL preservative free eye drops				
Bimatoprost		<b>MMC</b>		
100 microgram/mL eye drops				

## Prostaglandin analogues (combination products)

Bimatoprost / Timolol (Ganfort®)	<b>MMC</b>		
100microgram/mL / 0.5% eye drops			

## Sympathomimetics

Brimonidine Tartrate		<b>MMC</b>		
0.2% eye drops				
Apraclonidine				
0.5% eye drops				

**RESTRICTED** to delay laser treatment / surgery in uncontrolled glaucoma

## Carbonic anhydrase inhibitors & systemic drugs

Acetazolamide			
250mg tablets; Diamox SR® 250mg capsules			
Brinzolamide			
10mg/mL eye drops			
Dorzolamide			
2% eye drops; also preservative free			
Dorzolamide / Timolol (Cosopt®)			
2% eye drops; also preservative free			
Brinzolamide / Brimonidine (Simbrinza®)	<b>MMC</b>		
2% eye drops			

**RESTRICTED** glaucoma patients in whom monotherapy provides insufficient IOP reduction

## Miotics

Pilocarpine			
1%, 2%, 4% eye drops, 2% minims			
Pilocarpine			
4% ophthalmic gel			

## 11.7 Local anaesthetics



### Ocular Local anaesthetics

Lidocaine (Lignocaine) and Fluorescein (minims)

4% / 0.25% eye drops



Oxybuprocaine (minims)

0.4% eye drops



Proxymetacaine (minims)

0.5% eye drops



Tetracaine (Amethocaine) (minims)

1%, 2% eye drops





## 11.8 Miscellaneous ophthalmic preparations



### Other preparations

Ciclosporin (eye)	<b>U</b>				<b>RESTRICTED Consultant Ophthalmologist only</b>
2% eye drops					
Ciclosporin (Ikervis®)					<b>RESTRICTED Consultant Ophthalmologist only in line with NICE TA369</b>
1mg/mL eye drops					
Sodium Chloride	<b>U</b>				
5% eye drops					
Botulinum toxin type A					<b>RESTRICTED Consultant Ophthalmologist only</b>
Xeomin® solution for injection					

### 11.8.1 Tear deficiency, ocular lubricants & astringents

Hypromellose					
0.3% eye drops					
Carbomers (Viscotears®)					
0.2% eye drops					
Polyvinyl alcohol (Liquifilm Tears®)					
1.4% eye drops					
Hydroxyethylcellulose (Minims® Artificial Tears)					
eye drops					
Carmellose Sodium (Celluvisc®)					
0.5% eye drops					
Liquid Paraffin (Lacri-Lube®)					
ointment					
Acetylcysteine (Ilube®)	<b>U</b>				
5% eye drops					
Sodium Chloride (minims)					
0.9% eye drops					
Sodium Hyaluronate (Hylo-Forte®)					
0.2% eye drops					
Alteplase					<b>RESTRICTED Consultant Ophthalmologist only</b>
25microgram in 0.1mL Intravitreal injection					
Poly (carboxymethylglucose sulfate) (Cacicol®)					<b>RESTRICTED Consultant Ophthalmologist only NOT STOCKED</b>
eye drops (0.33mL)					

### 11.8.2 Ocular diagnostic & peri-operative preparations & photodynamic treatment

#### Ocular diagnostic preparations

Fluorescein Sodium					
1%; 2% preservative free eye drops					


#### Ocular peri-operative drugs

Ketorolac Trometamol					<b>RESTRICTED Consultant Ophthalmologist only</b>
0.5% eye drops					
Apraclonidine					<b>RESTRICTED Consultant Ophthalmologist only</b>
0.5% eye drops; 1% preservative free eye drops					
Acetylcholine Chloride					<b>RESTRICTED Consultant Ophthalmologist only</b>
1% intraocular irrigation					
Bromfenac (Yellox®)					<b>RESTRICTED Consultant only for pseudophakic CMO</b>
0.9 mg/mL eye drops					

Nepafenac (Nevanac®) 1 mg/mL eye drops	MMC BNF emc+	<b>RESTRICTED. 1<sup>st</sup> line post cataract surgery in diabetics. 2<sup>nd</sup> line CMO</b>
Povidone-Iodine 5% eye drops	MMC BNF emc+ BNF for children	<b>RESTRICTED Consultant Ophthalmologist only</b>
Densiron® 68 (Heavy Silicone oil) 10mL syringe	MMC BNF BNF for children	<b>RESTRICTED intraocular tamponade of inferior retinal breaks</b>
Silicone oil 1300CST injection 10mL syringe	MMC BNF BNF for children	<b>RESTRICTED Consultant Ophthalmologist only</b>
Silicone oil 5700CST injection 10mL syringe	MMC BNF BNF for children	<b>RESTRICTED Consultant Ophthalmologist only</b>
<b>Subfoveal choroidal neovascularisation</b>		
Bevacizumab 100mg in 4mL vial	PbR X MMC BNF emc+	<b>RESTRICTED Consultant Ophthalmologist only</b>
Ranibizumab 10mg/mL injection	PbR X NICE MMC BNF emc+	<b>RESTRICTED Consultant Ophthalmologist only</b>
Verteporfin 15mg vial	PbR X MMC BNF emc+	<b>RESTRICTED Consultant Ophthalmologist only</b>
Aflibercept 40mg in 1mL injection	PbR X NICE MMC BNF emc+	<b>RESTRICTED Consultant Ophthalmologist only</b>
<b>Vitreomacular traction</b>		
Ocriplasmin 0.5 mg in 0.2mL injection	PbR X NICE MMC BNF emc+	<b>RESTRICTED Consultant Ophthalmologist only</b>



## Section 12: Ear, nose & oropharynx

Supported by the   
formulary ([click here](#))

### 12.1 Drugs acting on the ear

- 12.1.1 Otitis externa
- 12.1.3 Removal of ear wax

### 12.2 Drugs acting on the nose

- 12.2.1 Drugs used in nasal allergy
- 12.2.2 Topical nasal decongestants
- 12.2.3 Nasal preparations for infection

### 12.3 Drugs acting on the oropharynx

- 12.3.1 Drugs for oral ulceration & inflammation
- 12.3.2 Oropharyngeal anti-infective drugs
- 12.3.4 Mouthwashes, gargles & dentifrices
- 12.3.5 Treatment of dry mouth

## Trust Guidelines

Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
[Non-formulary Conversion Table](#)

## NICE Guidance

Otitis media (acute): antimicrobial prescribing (NG91)

## GMMMG Formulary

Formulary Homepage  
Chapter 12: Ear, nose & oropharynx (Complete)  
GMMMG Adult [Red/Amber/Green](#); DNP and Grey Drug List  
GMMMG Paediatric [Red/Amber/Green](#) Drug List

## 12.1 Drugs acting on the ear



### 12.1.1 Otitis externa

#### Astringent preparations

Aluminium Acetate



#### Anti-inflammatory preparations

Betamethasone Sodium Phosphate (Betnesol®)

0.1% ear drops



Prednisolone Sodium Phosphate (Predsol®)

0.5% ear drops



#### Anti-inflammatory with antibacterial preparations

Dexamethasone / Neomycin Sulphate (Otomize®)

0.1% / 3250u per mL ear spray



Dexamethasone / Framycetin Sulphate / Gramicidin (Sofradex®)

0.05% / 0.5% / 0.005% ear/eye drops



Flumetasone Pivalate / Clioquinol (Locorten-Vioform®)

0.02% / 1% ear drops



Hydrocortisone / Gentamicin

1% / 0.3% ear drops



Hydrocortisone / Neomycin Sulfate / Polymyxin B Sulphate (Otosporin®)

10mg per mL : 3400u per 1mL : 10,000u per 1mL (10mL ear drops)



#### Anti-infective preparations

Clotrimazole

1% ear drops



### 12.1.3 Removal of ear wax

Chlorobutanol / Arachis oil (Cerumol®)

ear drops



Olive oil ear drops














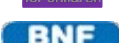


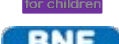











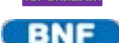


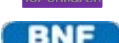


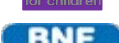




ear drops



Sodium Bicarbonate

5% ear drops



12.2 Drugs acting on the nose		GMMMG
<b>12.2.1 Drugs used in nasal allergy</b>		
<b>Antihistamines</b>		
Azelastine Hydrochloride 140micrograms nasal spray	  	
<b>Corticosteroids</b>		
Beclometasone Dipropionate 50micrograms nasal spray	  	<b>1<sup>st</sup> line use</b>
Betamethasone Sodium Phosphate 0.1% nose drops	  	
Mometasone Furoate 50micrograms nasal spray	 <b>MMC</b>  	<b>1<sup>st</sup> line use nasal polyps</b>
Fluticasone Furoate (Avamys®) 27.5micrograms nasal spray	 <b>MMC</b>  	
Fluticasone Propionate / Azelastine (Dymista®) 50micrograms / 137micrograms nasal spray	 <b>MMC</b>  	<b>RESTRICTED ENT referral to 1<sup>RY</sup> Care / Paeds 3<sup>rd</sup> line use</b>
<b>Cromoglicate</b>		
Sodium Cromoglicate 4% nasal spray	  	
<b>12.2.2 Topical nasal decongestants</b>		
<b>Sympathomimetics</b>		
Ephedrine Hydrochloride 0.5%; 1% nasal drops	  	<b>1<sup>st</sup> line use</b>
Sodium Chloride 0.9% nasal drops	  	
Xylometazoline Hydrochloride 0.1% nasal drops	  	
<b>Antimuscarinics</b>		
Ipratropium Bromide 0.03% nasal spray	  	Rhinorrhoea associated with allergic & non-allergic rhinitis
<b>12.2.3 Nasal preparations for infection</b>		
Chlorhexidine Dihydrochloride / Neomycin (Naseptin®) 0.1% / 0.5% nasal cream	  	<b>1<sup>st</sup> line use staphylococcal infections</b>
Mupirocin 2% nasal ointment	  	<b>RESTRICTED only if MRSA has been identified</b>

## 12.3 Drugs acting on the oropharynx



### 12.3.1 Drugs for oral ulceration & inflammation

#### Local Analgesics

Benzydamine Hydrochloride

0.15% oral rinse; 0.15% spray

BNF  
for children

BNF emc+

Carmellose Sodium

30g protective paste

BNF  
for children

BNF emc+

#### Corticosteroids

Hydrocortisone

BNF  
for children

BNF emc+

### 12.3.2 Oropharyngeal anti-infective drugs

#### Oropharyngeal fungal infections

Nystatin

100,000 units/mL oral suspension

BNF  
for children

BNF emc+

Amphotericin

BNF  
for children

BNF emc+

Miconazole

2% oral gel

BNF  
for children

BNF emc+

#### 12.3.4 Mouthwashes, gargles & dentifrices

Chlorhexidine Gluconate

0.2% mouthwash

BNF  
for children

BNF emc+

### 12.3.5 Treatment of dry mouth

#### Local treatment

AS Saliva Orthana®

BNF  
for children

BNF emc+

BioXtra®

oral gel

BNF  
for children

BNF emc+

#### Systemic treatment

Pilocarpine


5mg tablets

BNF  
for children

BNF emc+

**RESTRICTED** Consultant use only  
following irradiation for head & neck  
cancer

## Section 13: Skin

Supported by the   
formulary ([click here](#))

### 13.2 Emollient & barrier preparations

13.2.1 Emollients

13.2.2 Barrier preparations

### 13.3 Topical local anaesthetics & antipruritics

### 13.4 Topical corticosteroids

### 13.5 Preparations for eczema & psoriasis

13.5.1 Preparations for eczema

13.5.2 Preparations for psoriasis

13.5.3 Drugs affecting the immune response

Cytokine Modulators

### 13.6 Acne & Rosacea

13.6.1 Topical preparations for acne

13.6.2 Oral preparations for acne

### 13.7 Preparations for warts & calluses

### 13.8 Sunscreens & camouflagers

13.8.1 Sunscreen preparations

Photodamage

### 13.9 Shampoos & other preparations for scalp/hair conditions

### 13.10 Anti-infective skin preparations

13.10.1 Antibacterial preparations

13.10.2 Antifungal preparations

13.10.3 Antiviral preparations

13.10.4 Parasitocidal preparations

13.10.5 Preparations for minor cuts & abrasions

### 13.11 Skin cleansers, antiseptics & desloughing agents

13.11.1 Alcohols & saline

13.11.2 Chlorhexidine salts

13.11.4 Iodine

13.11.6 Oxidisers & dyes

13.11.7 Desloughing agents

### 13.12 Antiperspirants

### 13.13 Topical circulatory preparations

### 13.14 Miscellaneous preparations

## Trust Guidelines

[Adult medicines and prescribing guidelines](#)  
[Paediatric medicines and prescribing guidelines](#)  
[Neonatal guidelines \(link to Staffnet site\)](#)  
[Non-formulary Conversion Table](#)

## NICE Guidance

[Biosimilar Medicines \(KTT15\)](#)  
[Atopic eczema in children \(CG57\)](#)  
[Surgical site infection \(CG74\)](#)  
[Psoriasis: assessment and management \(CG153\)](#)  
[Pressure Ulcers \(CG179\)](#)  
[Pubic lice CKS \(2011\)](#)  
[Scabies CKS \(2011\)](#)  
[Acne vulgaris CKS \(2014\)](#)  
[Head lice CKS \(2015\)](#)  
[Atopic dermatitis \(eczema\) - topical steroids \(TA81\)](#)  
[Atopic dermatitis \(eczema\) - pimecrolimus and tacrolimus \(TA82\)](#)  
[Psoriasis - efalizumab and etanercept \(TA103\)](#)  
[Psoriasis - infliximab \(TA134\)](#)  
[Psoriasis - adalimumab \(TA146\)](#)  
[Alitretinoin for the treatment of severe chronic hand eczema \(TA177\)](#)  
[Psoriasis - ustekinumab \(TA180\)](#)  
[Melanoma \(stage III or IV\) - ipilimumab \(TA268\)](#)  
[Melanoma \(BRAF V600 mutation positive, unresectable metastatic\) - vemurafenib \(TA269\)](#)  
[Ustekinumab for treating active psoriatic arthritis \(rapid review of TA313\) \(TA340\)](#)  
[Secukinumab for treating moderate to severe plaque psoriasis \(TA350\)](#)  
[Adalimumab for treating moderate to severe hidradenitis suppurativa \(TA392\)](#)  
[Nivolumab in combination with ipilimumab for treating advanced melanoma \(TA400\)](#)  
[Apremilast for treating moderate to severe plaque psoriasis \(replaces TA368\) \(TA419\)](#)  
[Apremilast for treating active psoriatic arthritis \(TA433\)](#)  
[Ixekizumab for treating moderate to severe plaque psoriasis \(TA442\)](#)  
[Adalimumab, etanercept and ustekinumab for treating plaque psoriasis in children and young people \(TA455\)](#)  
[Dimethyl fumarate for treating moderate to severe plaque psoriasis \(TA475\)](#)  
[Brodalumab for treating moderate to severe plaque psoriasis \(TA511\)](#)  
[Guselkumab for treating moderate to severe plaque psoriasis \(TA521\)](#)  
[Dupilumab for treating moderate to severe atopic dermatitis \(TA534\)](#)

EMA (efalizumab)

## GMMMG Formulary

[Formulary Homepage](#)  
[Chapter 13: Skin \(Complete\)](#)  
[GMMMG Adult Red/Amber/Green; DNP and Grey Drug List](#)  
[GMMMG Paediatric Red/Amber/Green Drug List](#)

## 13.2 Emollient & barrier preparations



### 13.2.1 Emollients

#### Non-Proprietary emollient preparations

Aqueous cream BP

cream



Emulsifying ointment BP

ointment



Liquid & white soft paraffin

ointment



Paraffin, white soft BP

white petroleum jelly



Paraffin, yellow soft BP

yellow petroleum jelly



#### Proprietary emollient preparations

Diprobase®



Doublebase®



Hydromol®



Oilatum®



#### Preparations containing urea

Balneum® Plus



#### With antimicrobials

Dermol® & Dermol® 500



**RESTRICTED** patients unable to tolerate 1<sup>st</sup> / 2<sup>nd</sup> line antimicrobial washes

#### 13.2.1.1 Emollient bath and shower preparations

Balneum® & Balneum Plus®



Oilatum®



#### With antimicrobials

Dermol® 600

bath emollient



Oilatum® Plus

bath emollient



2<sup>nd</sup> line MRSA decolonisation therapy

#### 13.2.2 Barrier preparations

[Nappy care guidelines](#)

#### Proprietary barrier preparations

Metanium®

ointment



2<sup>nd</sup> line only at parental request

Sudocrem®

cream



2<sup>nd</sup> line only at parental request



**13.3 Topical local anaesthetics & antipruritics****13.3 Topical local anaesthetics & antipruritics**

Crotamiton




















































cream; lotion



Mepyramine Maleate

2% w/w cream



13.4 Topical corticosteroids		GMMMG
Corticosteroid only preparations		NICE TA81
HYDROCORTISONE		Potency
Canesten HC® hydrocortisone 1% plus clotrimazole 1% cream	  	Mild
Daktacort® hydrocortisone 1%, miconazole nitrate 2% cream; ointment	  	Mild
Eurax-Hydrocortisone® hydrocortisone 0.25%, crotamiton 10% cream	  	Mild
Fucidin H® hydrocortisone 1%, fusidic acid 1% cream	  	Mild
BETAMETHASONE ESTERS		Potency
Betamethasone valerate 0.025% ointment, cream	  	Moderate
Betnovate-RD® Betamethasone valerate 0.025% cream; ointment	  	Moderate
CLOBETASONE BUTYRATE		Potency
Eumovate® (Clobetasone Butyrate) 0.05% cream; ointment	  	Moderate
BETAMETHASONE ESTERS		Potency
Betamethasone valerate 0.1% ointment; cream; lotion; scalp lotion	  	Potent
Betnovate® 0.1% cream; ointment; scalp application; lotion	  	Potent
Betnovate-C® Betamethasone valerate 0.1% plus clioquinol 3% cream; ointment	  	Potent
Betnovate-N® Betamethasone valerate 0.1% plus neomycin 0.5% cream; ointment	  	Potent
Diprosalic® Betamethasone dipropionate 0.05%, salicylic acid 3% ointment	  	Potent
Fucibet® Betamethasone valerate 0.1% plus fusidic acid 2% cream	  	Potent
Betnovate® ointment 25% in coal tar	  	Potent
	<b>DERMATOLOGY ONLY</b>	
CLOBETASOL PROPIONATE		Potency
Dermovate® clobetasol propionate 0.05% ointment; cream; lotion; scalp lotion	  	Very potent
Dermovate NN® clobetasol propionate 0.05% plus neomycin plus nystatin cream	  	Very potent
Etrivex® clobetasol propionate 500micrograms/g shampoo	  	Very potent
		<b>RESTRICTED - 1ry Care referral</b>

## 13.5 Preparations for eczema & psoriasis



### 13.5.1 Preparations for eczema

Alitretinoin **Red** (chronic hand eczema)

10mg; 30mg capsules

PbR X **NICE** **MMC** **BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

### 13.5.2 Preparations for psoriasis

#### Topical preparations for psoriasis

**NICE CG153**

Calcipotriol

Dovonex® ointment; with Betamethasone (Dovobet® 0.05% ointment)

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Dithranol

Dithrocream®, 0.1% & 0.25%

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Salicylic acid

Zinc & Salicylic acid paste BP (Lassar's Paste)

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Tacalcitol (Curatoderm®)

lotion; ointment

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

#### Tars

Coal tar paste BP

paste

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Cocoi®

scalp ointment

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

#### Oral retinoids for psoriasis

Acitretin **Red** (predominantly due to safety concerns in pregnancy)

10mg; 25mg capsules

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

#### Dimethyl Fumarate

Dimethyl Fumarate **Red**

30mg; 120mg tablets

PbR X **NICE** **MMC** **BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only in line with NICE

### 13.5.3 Drugs affecting the immune response

Azathioprine

25mg; 50mg tablets (see also section 8.2.1)

**Amber**

**BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Ciclosporin

25mg, 50mg & 100mg caps; 100mg/1mL oral soln; Infusion (see also section 8.2.2)

**Amber**

**MMC** **BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Methotrexate

2.5mg tablets (see also sections 8.1.3 & 10.1.3)

**Amber**

**MMC** **BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Pimecrolimus

1% cream

**NICE** **MMC** **BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

Tacrolimus (specially made by SRFT)

0.03%; 0.1% ointment

**Green**

**NICE** **MMC** **BNF** **emc**

**RESTRICTED** Dermatology  
Consultants only

<b>Cytokine Modulators</b>		(see also section 10.1.3)
Adalimumab injection (see also section 10.1.3)	Red PbR X NICE MMC BNF for children emc	<b>RESTRICTED Dermatology Consultants only</b>
Brodalumab 140mg/mL injection	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants only in line with NICE</b>
Certolizumab 200mg injection (see also section 10.1.3)	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants only in line with NICE</b>
Dupilumab 150mg/mL injection	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants only in line with NICE</b>
Etanercept injection (see also section 10.1.3)	Red PbR X NICE MMC BNF for children emc	<b>RESTRICTED Dermatology Consultants only</b>
Guselkumab 100mg/mL injection	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants only in line with NICE</b>
Infliximab 100mg injection (see section 10.1.3)	Red PbR X NICE MMC BNF for children emc	<b>RESTRICTED Dermatology Consultants only in line with NICE</b>
Ixekizumab 80mg/1mL injection	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants in line with NICE</b>
Ustekinumab injection (see section 10.1.3)	Red PbR X NICE MMC BNF for children emc	<b>RESTRICTED Dermatology NICE TA180 &amp; 455 / Gastro 3<sup>rd</sup> line Crohn's</b>
Secukinumab 150mg/1mL injection	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Consultants only in line with NICE</b>
Apremilast 10mg; 20mg; 30mg tablets	Red PbR X NICE MMC BNF emc	<b>RESTRICTED Dermatology Consultants in line with NICE</b>

## 13.6 Acne & Rosacea



### 13.6.1 Topical preparations for acne

NICE CKS: Acne

**For mild to moderate acne, use topical bezyl peroxide or a topical retinoid 1<sup>st</sup> line. Topical antibiotic should be reserved for patients who have not responded to other topical preparations.**

#### Benzyl peroxide & azelaic acid

Benzoyl Peroxide



1<sup>st</sup> line

4% cream; 5% gel



Azelaic acid (Skinoren®)



2<sup>nd</sup> line

20% cream



#### Topical antibacterials for acne

Clindamycin (Dalacin T®)



2<sup>nd</sup> / 3<sup>rd</sup> line

1% topical lotion



Erythromycin (Zineryt®)



2<sup>nd</sup> / 3<sup>rd</sup> line

40mg/mL erythromycin; zinc acetate 12mg/mL lotion



#### Topical retinoids & related preparations for acne

Adapalene (Differin®)



1<sup>st</sup> line

0.1% cream; 0.1% gel



#### Topical retinoids with antibacterial

Isotretinoin with Erythromycin (Isotrexin®)



**RESTRICTED Dermatology Consultants only**

isotretinoin 500micrograms/1g; erythromycin 20mg/1g gel



### 13.6.2 Oral preparations for acne

NICE CKS: Acne

**Oral antibiotics should be reserved for moderate to severe acne or where topical preparations have failed. Please refer to chapter 5.**

Lymecycline



**RESTRICTED GP referral only**

408mg capsules (see also section 5.1.3)



#### Hormone treatment for acne

Co-cyprindiol



**RESTRICTED GP referral only**

Cyproterone acetate 2mg / ethinylestradiol 35micrograms tablets



#### Oral retinoid for acne

Isotretinoin **Red** (due to safety concerns in pregnancy)



**RESTRICTED Dermatology Consultants only**

5mg; 10mg; 20mg; 40mg capsules



## 13.7 Preparations for warts & calluses



### 13.7 Preparations for warts & calluses

Salicylic acid

ointment; liquid



Silver Nitrate

pencil



**RESTRICTED Dermatology  
Consultants only**

### Anogenital warts

Podophyllotoxin

0.15% cream



**1<sup>st</sup> line**
















Imiquimod

5% cream



**RESTRICTED GUM Consultant only**

13.8 Sunscreens & camouflagers		GMMMG
13.8.1 Sunscreen preparations		
Photodamage		
Methyl-5-Aminolevulinate 160mg/g cream	<b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED Dermatology Consultants &amp; Vulval Intraepithelial Neoplasia (VIN) only</b>
Diclofenac Sodium (Solaraze®) 3% gel	<b>BNF</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED Dermatology Consultants</b>
Fluorouracil / salicylic acid (Actikerall®) 0.5% / 10% cutaneous solution	<b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED Dermatology Consultants moderately thick hyperkeratotic AK (grade I/II)</b>
Ingenol Mebutate (Picato®) 150 micrograms/g gel (face & scalp); 500 micrograms/g gel (trunk & extremities)	<b>MMC</b> <b>BNF</b> <b>emc</b>	<b>RESTRICTED Dermatology Consultants for recommendation to GP's / not stocked</b>

13.9 Shampoos & other preparations for scalp / hair conditions		GMMMG
<b>Shampoos</b>		
Ketoconazole (Nizoral®) 2% shampoo	  	<b>RESTRICTED persistent / severe seborrhoeic dermatitis / dandruff</b>
Capasal® coal tar 1%, coconut oil 1% &, salicylic acid 0.5% shampoo	  	<b>RESTRICTED Dermatology Consultants only</b>
Cetrimide with Undecenoic acid (Ceanel Concentrate®) cetrimide 10%, undecenoic acid 1% & phenylethyl alcohol 7.5% shampoo	  	<b>RESTRICTED Dermatology Consultants only</b>
<b>Other scalp preparations</b>		
Polytar® 40mg/mL coal tar scalp shampoo	  	
<b>Hirsutism</b>		
Eflornithine (Vaniqa®) 11.5% cream	  	<b>RESTRICTED Dermatology Consultants only</b>



## 13.10 Anti-infective skin preparations



### 13.10.1 Antibacterial preparations

**Topical antibacterials should generally be avoided for the treatment of infections**

#### 13.10.1.1 Antibacterial preparations only used topically

Mupirocin	 BNF	
2% cream; ointment		
Fusidic acid	 BNF	<b>RESTRICTED superficial impetigo</b>
2% cream; ointment		
Metronidazole	 BNF	<b>RESTRICTED topical treatment of rosacea</b>
0.75% topical gel; cream		
Silver Sulfadiazine	 BNF	<b>RESTRICTED Treatment &amp; prophylaxis of infected burns</b>
1% w/w cream		

#### 13.10.2 Antifungal preparations

Amorolfine	 BNF <b>MMC</b>	<b>1<sup>st</sup> line antifungal for finger &amp; toenail infections</b>
5% nail lacquer		
Benzoic acid ointment, compound, BP	 BNF	<b>1<sup>st</sup> line treatment of ringworm</b>
benzoic acid 6%, salicylic acid 3%, in emulsifying ointment		
Clotrimazole	 BNF	<b>1<sup>st</sup> line fungal skin infections</b>
1% cream		
Miconazole	 BNF	<b>2<sup>nd</sup> line fungal skin infections</b>
2% cream		
Terbinafine	 BNF	<b>2<sup>nd</sup> line fungal skin infections</b>
1% cream		

#### 13.10.3 Antiviral preparations

Aciclovir	 BNF	<b>1<sup>st</sup> line</b>
5% cream		

#### 13.10.4 Parasitocidal preparations

		<b>NICE CKS: Head lice</b>
		<b>NICE CKS: Pubic lice</b>
		<b>NICE CKS: Scabies</b>
		<a href="#">Scabies, Head, Body &amp; Pubic lice guidelines</a>

Malathion	 BNF	
0.5% aqueous solution		
Permethrin	 BNF	
1% crème rinse; 5% dermal cream		

#### 13.10.5 Preparations for minor cuts & abrasions


























Proflavine cream, BPC	 BNF	
0.1% cream		
Brulidine		<b>RESTRICTED Theatres only</b>
0.15% w/w cream		

#### Preparations for boils

Magnesium Sulfate		
paste, BP		

#### Skin tissue adhesive

Histoacryl®	 BNF	<b>RESTRICTED Theatres only</b>
0.5mL skin adhesive		

<b>13.11 Skin cleansers, antiseptics &amp; desloughing agents</b>		
<b>13.11.1 Alcohols &amp; saline</b>		
Isopropyl Alcohol 70%	  	
Sodium Chloride 0.9% irrigation solution	  	
<b>13.11.2 Chlorhexidine salts</b>		
Chlorhexidine Gluconate	  	
<b>13.11.4 Iodine</b>		
Alcoholic Iodine solution BP	  	
Iodine weak solution	  	
Povidone-Iodine	  	
<b>13.11.6 Oxidisers &amp; dyes</b>		
Hydrogen Peroxide solution, BP 3% solution; 6% solution	  	<b>RESTRICTED Specialist use only</b>
Potassium Permanganate	  	<b>RESTRICTED Specialist use only</b>
<b>13.11.7 Desloughing agents</b>		
<b>CONTACT THE TISSUE VIABILITY TEAM on x64042</b>		

## 13.12 Antiperspirants



### Aluminium salts

Aluminium Chloride Hexahydrate



20% solution



### Glycopyrronium Bromide

Glycopyrronium Bromide (Robinul®)



Glycopyrrolate



0.5% cream



**RESTRICTED** Diabetes Consultants  
only for gustatory sweating

## 13.13 Topical circulatory preparations





### *Topical circulatory preparations*

Hirudoid®


0.3% cream; 0.3% gel



## 13.14 Miscellaneous preparations

8-Methoxypsoralen	<b>U</b>	<b>MMC</b>	<b>emc</b> 	<b>RESTRICTED</b> Dermatology Consultants only
10mg tablets				
Fumaric Acid Esters (Fumaderm®)	<b>U</b>	<b>MMC</b>	<b>emc</b> 	<b>RESTRICTED</b> Dermatology Consultants only
tablets				
Glucarpidase (Voraxaze®)	<b>U</b>	<b>MMC</b>	<b>emc</b> 	2 <sup>nd</sup> line rescue therapy in patients with delayed methotrexate excretion
1,000 unit injection (see also sections 1.10, 8.4 & 10.4)		<b>PbR X</b>		
Hyaluronic acid / Lidocaine (Juvederm® / Belotero®)	<b>U</b>	<b>MMC</b>	<b>emc</b> 	<b>RESTRICTED</b> (unlicensed) vocal cord paralysis

## Section 14: Immunological products & vaccines

Supported by the   
formulary ([click here](#))

### 14.4 Vaccines & antisera

- Bacillus Calmette-Guérin (BCG) vaccines
- Botulism antitoxin
- Diphtheria vaccines (children under 10yrs old)
- Diphtheria vaccines (children over 10yrs old & adults)
- Haemophilus type B conjugate vaccine
- Hepatitis A vaccine
- Hepatitis B vaccine
- Human papilloma virus vaccine
- Influenza vaccine
- Measles, Mumps & Rubella (MMR) vaccine
- Meningococcal vaccines
- Pneumococcal vaccines
- Poliomyelitis vaccines
- Rabies vaccines
- Tetanus vaccines
- Typhoid vaccines
- Varicella-zoster vaccines

### 14.5 Immunoglobulins

- 14.5.1 Normal immunoglobulin
- 14.5.2 Disease-specific immunoglobulins
- 14.5.3 Anti-D (Rh<sub>0</sub>) immunoglobulin

## Trust Guidelines

Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
Guidelines for the Prescribing and Administration of Intravenous Immunoglobulin  
Immunoglobulin follow up form  
Immunoglobulin Prescribing and Administration Guidelines  
Immunoglobulin Prescribing Flow Chart  
Immunoglobulin request form  
National Demand Programme for Immunoglobulin - Clinical Info  
[Non-formulary Conversion Table](#)

## NICE Guidance

Pregnancy - routine anti-D prophylaxis for rhesus negative women (TA156)

## GMMMG Formulary

Formulary Homepage  
Chapter 14: Immunological products & vaccines (Complete) **IN DEVELOPMENT**  
GMMMG Adult **Red/Amber/Green**; DNP and Grey Drug List  
GMMMG Paediatric **Red/Amber/Green** Drug List

## Other Links

National Immunoglobulin Database  
DH: Clinical guidelines for immunoglobulin use (2<sup>nd</sup> edition update)  
Immunoglobulin handbook (HPA)

## 14.4 Vaccines & antisera

### ***Bacillus Calmette-Guérin (BCG) vaccines***

Bacillus Calmette-Guérin (BCG) vaccine

injection



BCG vaccine diagnostic agent (Tuberculin purified protein derivative (PPD))

injection



### ***Botulism antitoxin***

Botulism antitoxin

injection



**RESTRICTED Emergencies only**

### ***Diphtheria vaccines (children under 10yrs old)***

Pediacel®

injection



Infanrix-IPV+Hib®

injection



Infanrix-IPV®

injection



Repevax®

injection



### ***Diphtheria vaccines (children over 10yrs old & adults)***

Revaxis®

injection



### ***Haemophilus type B conjugate vaccine***

Haemophilus Influenzae B vaccine

Hiberix®



Haemophilus Influenzae B & Meningitis C vaccine

Menitorix®



### ***Hepatitis A vaccine***

Hepatitis A vaccine single component

Havrix Monodose®; Havrix Junior Monodose®; Vaqta® Paediatric



### ***Hepatitis B vaccine***

Hepatitis B single component

Engerix B®; Engerix B® Paediatric



Hepatitis B single component

HBvaxPRO®; HBvaxPRO® Paediatric



### ***Human papilloma virus (HPV) vaccine***

Human Papilloma Virus (HPV) quadrivalent vaccine

Gardasil®



**RESTRICTED to Consultant Paediatric Immunologist**

### ***Influenza vaccine***

Influenza vaccine

injection, intranasal



### ***Measles, Mumps & Rubella (MMR) vaccine***

Measles, Mumps & Rubella vaccine

injection



### ***Meningococcal vaccines***

Meningococcal Polysaccharide A, C, W135 & Y vaccine

injection
























Meningococcal group B vaccine

Bexsero® injection



**RESTRICTED to childhood immunisation schedule & high risk patients**



Meningococcal group C vaccine	  	
injection		
<b><i>Pneumococcal vaccines</i></b>		
Pneumococcal Polysaccharide vaccine	  	
injection		
<b><i>Poliomyelitis vaccines</i></b>		
Poliomyelitis vaccine inactivated	  	
<b><i>Rabies vaccines</i></b>		
Rabies vaccine inactivated	  	<b>RESTRICTED Not Stocked</b>
Rabipur®		
<b><i>Tetanus vaccines</i></b>		
Tetanus vaccine adsorbed	  	
<b><i>Typhoid vaccines</i></b>		
Typhoid polysaccharide vaccine	  	
Typhim Vi®		
<b><i>Varicella-zoster vaccines</i></b>		
Varicella-Zoster live attenuated vaccine	  	
Varivax®		

## 14.5 Immunoglobulins

### 14.5.1 Normal immunoglobulin Red (for ITP & home treatment programmes)

#### For intramuscular use

Normal Immunoglobulin injection

PbR X

BNF  
for children

BNF emc+

**RESTRICTED Specialist use only**

#### For subcutaneous use

Normal Immunoglobulin injection

PbR X

MMC

BNF  
for children

BNF emc+

**RESTRICTED Specialist use only**

#### For intravenous use

Human normal Immunoglobulin

PbR X

MMC

BNF  
for children

BNF emc+

**RESTRICTED Specialist use only**

### 14.5.2 Disease-specific immunoglobulins

#### Hepatitis B immunoglobulin

Hepatitis B Immunoglobulin

BNF  
for children

BNF emc+

**RESTRICTED Not Stocked**

#### Tetanus immunoglobulin

Tetanus Immunoglobulin

BNF  
for children

BNF emc+

#### Varicella-Zoster immunoglobulin

Varicella-Zoster Immunoglobulin

GreenBNF  
for children

BNF emc+

**RESTRICTED Not Stocked**

#### Cytomegalovirus (CMV) immunoglobulin

Human normal Immunoglobulin (CMV)

MMC

BNF  
for children

BNF emc+

**RESTRICTED Specialist use only**

### 14.5.3 Anti-D (Rh0) immunoglobulin


Anti-D (Rh<sub>0</sub>) Immunoglobulin

NICE

BNF  
for children

BNF emc+

## Section 15: Anaesthesia

Supported by the   
formulary ([click here](#))

### 15.1 General anaesthesia

- 15.1.1 Intravenous anaesthetics
- 15.1.2 Inhalational anaesthetics
- 15.1.3 Antimuscarinic drugs
- 15.1.4 Sedative & analgesic post-operative drugs
  - 15.1.4.1 Benzodiazepines
  - 15.1.4.2 Non-opioid analgesics
  - 15.1.4.3 Opioid analgesics
  - 15.1.4.4 Other drugs for sedation
- 15.1.5 Neuromuscular blocking drugs
  - Non-depolarising neuromuscular blocking drugs
  - Depolarising neuromuscular blocking drugs
- 15.1.6 Drugs for reversal of neuromuscular blockade
  - Anticholinesterases
  - Other drugs for reversal of neuromuscular blockade
- 15.1.7 Antagonists for central & respiratory depression
- 15.1.8 Drugs for malignant hyperthermia

### 15.2 Local anaesthesia

- Local Anaesthetic Toxicity
- Other agents

## Trust Guidelines

Adult medicines and prescribing guidelines  
Paediatric medicines and prescribing guidelines  
Neonatal guidelines (link to Staffnet site)  
Paediatric Anaesthesia Website  
Children's Pain Management Website  
PICU Emergency Drugs Calculator  
[Non-formulary Conversion Table](#)

## NICE Guidance

Sedation in children and young people (CG112)

## GMMMG Formulary

Formulary Homepage  
Chapter 15: Anaesthesia (Complete) **IN DEVELOPMENT**  
GMMMG Adult **Red/Amber/Green**; DNP and Grey Drug List  
GMMMG Paediatric **Red/Amber/Green** Drug List







## 15.1 General anaesthesia

### 15.1.1 Intravenous anaesthetics

Etomidate		 <b>BNF</b>	
Ketamine	<b>Amber</b> (Palliative Care) <b>Red</b> (chronic pain)	 <b>BNF</b>	
Propofol	<b>MMC</b>	 <b>BNF</b>	
Thiopental Sodium		 <b>BNF</b>	

### 15.1.2 Inhalational anaesthetics

#### 15.1.2.1 Volatile liquid anaesthetics

Isoflurane	<b>MMC</b>	 <b>BNF</b>		
Sevoflurane		 <b>BNF</b>		
Desflurane	<b>MMC</b>	 <b>BNF</b>		<b>RESTRICTED Theatres only</b>

#### 15.1.2.2 Nitrous oxide








Nitrous Oxide		 <b>BNF</b>	
Nitrous Oxide 50% & Oxygen 50% Entonox®		 <b>BNF</b>	

### 15.1.3 Antimuscarinic drugs





Atropine Sulfate adults 600microgram/1mL I.M. or I.V.		 <b>BNF</b>	
Glycopyrronium Bromide adults 200-400microgram I.V.		 <b>BNF</b>	
Hyoscine Hydrobromide 400microgram/mL injection		 <b>BNF</b>	





### 15.1.4 Sedative & analgesic post-operative drugs















































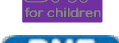




#### 15.1.4.1 Benzodiazepines


























Diazepam see also sections 4.1.2 & 4.8.2		 <b>BNF</b>		<b>NICE CG112</b>
Lorazepam see also sections 4.1.2 & 4.8.2		 <b>BNF</b>		
Midazolam see also section 4.8.2	<b>Green</b> buccal	 <b>BNF</b>		
Temazepam see also section 4.1.1		 <b>BNF</b>		

#### 15.1.4.2 Non-opioid analgesics

Ketorolac Trometamol I.M. or I.V. injection	<b>MMC</b>	 <b>BNF</b>		
Parecoxib I.M. or I.V. injection	<b>MMC</b>	 <b>BNF</b>		<b>RESTRICTED Theatres only - acute postoperative pain</b>

15.1.4.3 Opioid analgesics		
Alfentanil	  	
Fentanyl <a href="#">see also section 4.7.2</a>	  	
Remifentanil	 <b>MMC</b>  	<b>RESTRICTED specialist use only</b>
15.1.4.4 Other drugs for sedation		
Dexmedetomidine	 <b>MMC</b>  	<b>RESTRICTED ICU only</b>
15.1.5 Neuromuscular blocking drugs		
Non-depolarising neuromuscular blocking drugs		
Atracurium Besilate	  	
Cisatracurium	 <b>MMC</b>  	<b>RESTRICTED Consultant only</b>
Mivacurium	  	
Rocuronium Bromide	  	
Vecuronium Bromide	  	
Depolarising neuromuscular blocking drugs		
Suxamethonium Chloride	  	
15.1.6 Drugs for reversal of neuromuscular blockade		
Anticholinesterases		
Neostigmine Metilsulfate	  	
Neostigmine Metilsulfate with Glycopyrronium Bromide	  	
Other drugs for reversal of neuromuscular blockade		
Sugammadex	 <b>MMC</b>  	<b>RESTRICTED - Consultant (Emergency) use in Theatres only</b> <b>Complete Trust incident &amp; audit forms</b>
15.1.7 Antagonists for central & respiratory depression		
Doxapram Hydrochloride <a href="#">see also section 3.5.1</a>	  	
Flumazenil	  	
Naloxone Hydrochloride	  	
15.1.8 Drugs for malignant hyperthermia		
Dantrolene Sodium	  	

15.2 Local anaesthesia	AAGBI SAFETY GUIDELINE
<b>15.2 Local anaesthesia</b>	
<b>Lidocaine Hydrochloride</b>	
Lidocaine 0.5%, 1% & 2% injection	  
<b>with adrenaline</b>	
Lidocaine with Adrenaline 1%, 2% injection	  
<b>for surface anaesthesia</b>	
Lidocaine (Instillagel®) 2% gel	  
Lidocaine with Prilocaine (EMLA® cream) 5% cream	  
Lidocaine 4% topical solution	  
Lidocaine (Laryngojet®) 4% (160mg/4mL) jet spray	  
Lidocaine 5% ointment	  
Lidocaine (Xylocaine®) 10% spray	  
<b>Bupivacaine Hydrochloride</b>	
Bupivacaine 0.25% Infusion (500mL)	  
Bupivacaine (Marcain Heavy®) 0.5% Injection	  
<b>with adrenaline</b>	
Bupivacaine and Adrenaline 0.25% with 1:200,000 injection	  
Bupivacaine and Adrenaline 0.5% with 1:200,000 injection	  
<b>with other ingredients</b>	
Bupivacaine and Fentanyl 0.125% with 1mg/500mL infusion	  
Bupivacaine and Sodium Chloride 0.08% in 0.9%	  
Bupivacaine Hydrochloride with Glucose 20mg with 320mg/4mL spinal injection	  
<b>Levobupivacaine</b>	
Levobupivacaine (Chirocaine®) 25mg/10mL; 50mg/10mL; 75mg/10mL injection; epidural 250mg/200mL	   
Levobupivacaine with Fentanyl 0.1% with 2microgram/mL epidural	  

<b>Prilocaine Hydrochloride</b>		
Prilocaine (Citanest®)	  	
1% injection		
Prilocaine with Felypressin	  	
3% cartridges (30mg/mL Citanest with 0.54micrograms/mL Octapressin®)		
<b>Ropivacaine Hydrochloride</b>		
Ropivacaine	   <b>MMC</b>	<b>For Consultant use on CDU (elective CS), Theatre 1 (ortho) &amp; wards 1 &amp; 2 (following surgery in Theatre 1)</b>
injection; infusion		
<b>Tetracaine (Amethocaine)</b>		
Tetracaine	   <b>MMC</b>	<b>RESTRICTED children under 1yr by specific doctor request or /V team</b>
4% gel		
<b>Local Anaesthetic Toxicity</b>		
		<b>AAGBI SAFETY GUIDELINE</b>
Intralipid 20%	  	
20% injection		
<b>Other agents</b>		
Cocaine	  	
5% solution		
Ethyl Chloride	  	
Cryogesic® spray		
Mepivacaine Hydrochloride	  	
3% injection		
Neomycin Sulfate / Fluocinolone Acetonide / Lidocaine Hydrochloride	 <b>MMC</b>	<b>RESTRICTED Paediatrics. Intra-urethral steroid ointment</b>
Nefluan® gel (10g)		