

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

St George's University Hospitals NHS Foundation Trust Medicines Formulary

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What is a Medicines formulary?

A Medicines formulary is a continually updated list of medications and related information, representing the clinical judgement of physicians and pharmacists and other health care professionals, used in the treatment and/or diagnosis of disease and promotion of health. It should be evidence based, reflecting local and national guidelines, and cost effective to serve the health interests of the local population.

The aim of developing a formulary for St Georges Healthcare NHS Trust is to inform the hospital prescribers of the medicines available in the hospital and, wherever available, guidance on how these medicines should be prescribed.

Whilst some medicines are for use in hospital, a close liaison between the Drugs and Therapeutics Committee (DTC) and Primary Care ensures that the patient receives a seamless delivery of medicines on leaving the hospital.

Names of medicines

Medicines are listed by their generic names arranged according to British National Formulary (BNF) sections. However, brand names are used when prescribing by brand name is desirable e.g. for modified-release preparations and combination medicines.

Adherence to the medicines formulary

Medicines listed in the formulary have been selected following comprehensive research and discussion. Adherence to the formulary, for both inpatients and outpatients, is essential in the best interest of the patients and will ensure consistency of prescribing in hospital and in the community.

Directorates will be informed of their prescribing patterns.

Non-formulary medicines

Prescribing of non-formulary drugs leads to delays in treatment. These drugs will only be supplied where a case is established for exception in discussion with approval from the relevant Senior Pharmacy Manager and submission of a Non-Formulary Form.

Unlicensed medicines

Medicines without a UK product license are not listed in the BNF and therefore not automatically included in this formulary unless discussed specifically by the DTC. These medicines may be requested by a Consultant by completing an Unlicensed Medicines Patient Specific Approval Form to confirm that he/she takes the responsibility for prescribing such a medicine.

Application to include medicines on the formulary

Requests to include medicines on to the Formulary will be considered by the DTC. Requests by the prescribers (Medical & Non-medical) should be made by completing the DTC Application Form or the DTC NICE Consortia Approved Drugs Application Form. Dates for submission and meeting dates can be found on the relevant forms on the DTC Committee section on the Pharmacy Intranet Page.

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NICE Technology Appraisals

Drugs subject to a NICE Technology Appraisal (TA) require an application to the DTC committee in order to agree a local prescribing protocol for that drug. Please use the NICE TA Application Form which can be found on the DTC Committee section on the Pharmacy Intranet Page.

While the local prescribing protocol is being agreed medicines subject to a NICE TA will be made available for prescribing, however, they will require approval by a Senior Pharmacy Manager prior to supply using a Non-Formulary form.

Feedback

Please direct all feedback to formulary@stgeorges.nhs.uk

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Chapter 1: Gastro-intestinal Disease

1.1 Dyspepsia and GI Reflux Disease

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
1.1.1 Antacids				
Gaviscon Advance [®]	Sugar-free tablets; sugar-free suspension (sodium alginate 500mg and potassium bicarbonate 100mg per tablet or 5ml suspension)	High sodium content (2.25mmol/tablet; 2.3mmol/5ml suspension)	Suitable for initiation and continuation by primary care	
Gaviscon Infant [®]	Sugar-free oral powder (sodium alginate 225mg, magnesium alginate 87.5mg, with colloidal silica and mannitol per sachet)	Low sodium content (0.92mmol per sachet)	Suitable for initiation and continuation by primary care	
Magnesium trisilicate suspension BP	5% (magnesium trisilicate 500mg, light magnesium carbonate 500mg & sodium bicarbonate 500mg per 10ml)	High sodium content (6mmol/10ml)	Suitable for initiation and continuation by primary care	

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1.2 Antispasmodics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Antispasmodics				
Dicycloverine hydrochloride	10mg tablet		Suitable for initiation and continuation by Primary Care	
Hyoscine butylbromide	10mg tablet; 20mg in 1ml injection		Suitable for initiation and continuation by Primary Care	
Propantheline bromide	15mg tablet		Suitable for initiation and continuation by Primary Care	
Other antispasmodics				
Mebeverine hydrochloride	135mg tablet		Suitable for initiation and continuation by Primary Care	
Peppermint oil	0.2ml EC capsules; 0.8% v/v 50ml enema	Enema used to relax the colon during colonoscopy	Suitable for initiation and continuation by Primary Care	
Peppermint water BP	2.5 microlitres of peppermint oil in 5ml	Indigestion, flatulence and spasm. May be used for symptomatic relief in irritable bowel syndrome. 10ml orally up to four times a day when necessary	Suitable for initiation and continuation by Primary Care	
Motility stimulants				
Domperidone	10mg tablet; 1mg in 1ml suspension; 30mg suppository; 5mg in 1 ml injection		Suitable for initiation and continuation by Primary Care	
Erythromycin	250mg & 500mg tablets; 125mg in 5ml & 250mg in 5ml suspensions; 1g injection	Prokinetic agent [unlicensed use], motility stimulant	Suitable for initiation and continuation by Primary Care	
Metoclopramide	10mg tablet; 5mg in 5ml syrup; 10mg in 2ml injection		Suitable for initiation and continuation by Primary Care	

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1.3 Antisecretory Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
H.pylori eradication – triple therapy for 7 days				
Omeprazole	20mg capsule 10mg & 20mg dispersible tablets (MUPS®) 10mg/5ml liquid	20mg twice daily Restricted to paediatric and neonatal only Restricted to paediatric and neonatal only (for patients with finebore nasogastric tubes and where omeprazole MUPS® are deemed unsuitable) Dose: Neonates: 700mcg/kg once daily up to 2.8mg/kg once daily Child: 700mcg/kg once daily up to 3mg/kg once daily (maximum 40mg daily)	Suitable for initiation and continuation by primary care	
Amoxicillin	500mg capsule; 250mg in 5ml syrup	1000mg twice daily	Suitable for initiation and continuation by primary care	
Clarithromycin	500mg tablet; 250mg in 5ml suspension	500mg twice daily	Suitable for initiation and continuation by primary care	
Metronidazole	400mg tablets; 200mg in 5ml suspension	Only to be used to replace amoxicillin for penicillin allergic patients 400mg twice daily	Suitable for initiation and continuation by primary care	
Lansoprazole orodispersible tablets	30mg tablets	Only to be used to replace omeprazole in patients with swallowing difficulties 30mg twice daily	Suitable for initiation and continuation by primary care	

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1.3.1 H₂- receptor antagonists				
Ranitidine	150 & 300mg tablets; 50mg in 2ml injection		Suitable for initiation and continuation by primary care	
1.3.3 Chelates and complexes				
Sucralfate	1g tablet; 1g in 5ml suspension		Suitable for initiation and continuation by primary care	
1.3.4 Prostaglandin analogues				
Misoprostol	200 microgram tablet		Suitable for initiation and continuation by primary care	
1.3.5 Proton pump inhibitors				
Omeprazole	10mg & 20mg capsules		Suitable for initiation and continuation by primary care	
Omeprazole dispersible tablets (MUPS®)	10mg tablet 10mg & 20mg dispersible tablets (MUPS®)	Restricted to paediatrics Restricted: Gastroenterology team <i>During periods of national shortage, the above restrictions will be lifted.</i>	Suitable for initiation and continuation by primary care	
Omeprazole	10mg/5ml solution	Restricted to paediatrics and neonatal only Only for patients whereby Omeprazole MUPS are not suitable and have caused blockages to nasogastric tubes.	Suitable for initiation and continuation by primary care	
Lansoprazole orodispersible tablets	15mg & 30mg tablets	Restricted to adult patients with swallowing difficulties	Suitable for initiation and continuation by primary care	
Lansoprazole capsules	30mg capsules	Restricted to patients on clopidogrel who need to be prescribed a PPI	Suitable for initiation and continuation by primary care	
Omeprazole	40mg injection		Hospital only	
Esomeprazole	10mg granules	Restricted: Paediatrics	Suitable for initiation and continuation by primary care	

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1.4 Acute Diarrhoea				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Oral rehydration				
Dioralyte [®] Oral powder	8.8g sachet		Suitable for initiation and continuation by primary care	
St Marks Oral Rehydration Salts			Suitable for initiation and continuation by primary care	
1.4.2 Antimotility drugs				
Codeine phosphate	15mg, 30mg, 60mg tablets; 25mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Co-phenotrope (Lomotil [®])	2.5/0.025 tablets (2.5mg diphenoxylate hydrochloride + 25 micrograms atropine per tablet)		Suitable for initiation and continuation by primary care	
Loperamide	2mg capsules, and tablets; 1mg in 5ml sugar-free syrup (Imodium [®] syrup)		Suitable for initiation and continuation by primary care	

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1.5 Chronic Bowel Disorders

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
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1.5.1 Aminosaliclates

Caution – blood disorders

Patients receiving aminosaliclates should be advised to report any unexplained bleeding, bruising, purpura, sore throat, fever or malaise that occurs during treatment. A blood count should be performed and the drug stopped immediately if there is suspicion of a blood dyscrasia.

Balsalazide	750mg capsule	Restricted to: <ul style="list-style-type: none"> Consultant Gastroenterologists / Gastro SpRs and Gastro Clinical Fellows. For treatment of mild to moderate active ulcerative colitis, avoiding steroid use. As an alternative to Asacol[®] or if no response to Asacol[®]. (Balsalazide is more effective and better tolerated than mesalazine [Asacol[®]] in acute ulcerative colitis). Substitute for olsalazine which is poorly tolerated. 	Suitable for continuation by primary care	
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Mesalazine	<p>Asacol[®]: 1g/dose & 2g/dose enema</p> <p>Pentasa[®]: 500mg MR tablets; 1g MR tablets, granules 1g per sachet; 1g suppository; 1g retention enema</p> <p>Octasa[®]: 400mg MR and 800mg MR tablet</p> <p>Salofalk[®]: 500mg suppositories</p>	<p>Asacol[®] and Octasa[®] MR 400mg are pharmaceutically equivalent.</p> <p>New patients to be initiated and continued on Octasa[®].</p>	Suitable for continuation by primary care	
Olsalazine	250mg capsule		Suitable for continuation by primary care	
Sulfasalazine	500mg tablet; 500mg EC tablet; 250mg in 5ml suspension		Suitable for continuation by primary care	
1.5.2 Corticosteroids				
Budesonide	<p>3mg EC capsule (Budenofalk[®])</p> <p>9mg prolonged release tablets (Cortiment[®])</p> <p>2mg/dose rectal foam</p> <p>1mg Orodispersible Tablets</p>	<p>Induction of remission in patients with mild to moderate active ulcerative colitis (UC) where 5-ASA treatment is not sufficient.</p> <p>Treatment of eosinophilic oesophagitis in adults older than 18 years of age.</p>	<p>Suitable for initiation and continuation by primary care</p> <p>Hospital Only</p>	
Hydrocortisone acetate	10% rectal foam (125mg per dose)		Suitable for initiation and continuation by primary care	
Prednisolone	1mg, 5mg & 20mg tablets; 5mg soluble (paediatrics only) rectal foam 20mg per application; enema 20mg per 100ml		Suitable for initiation and continuation by primary care	

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1.5.3 Drugs affecting the immune response

Azathioprine	25mg and 50mg tablets; 250mg in 5ml suspension [unlicensed]	Resistant or frequently relapsing Crohn's disease. Dose: 2 mg/kg daily	Suitable for continuation by primary care	
Ciclosporin	50mg in 1ml injection; 250mg in 5ml injection	Severe acute ulcerative colitis refractory to corticosteroid treatment	Hospital only	
Methotrexate	2.5mg tablet	Crohn's disease. Dose 15-25 mg weekly	Suitable for continuation by primary care	
Tacrolimus ointment		Ulcerating perianal Crohn's disease and pyoderma gangrenosum as a last-line option if all other therapies and surgery have failed or are unsuitable	Suitable for continuation by primary care	

Cytokine modulators

Adalimumab	40mg in 0.8ml injection	Restricted: Gastroenterology High Cost Drug	Hospital only	
Infliximab injection	100mg injection	Use under specialist supervision only Use in accordance with NICE guidance for Crohn's disease (NICE technology appraisal 187) and acute exacerbations of ulcerative colitis (NICE technology appraisal 163)	Hospital only	

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Vedolizumab (Entyvio)	300mg injection	<p>For the treatment of patients with moderately to severely active Crohn's disease only if:</p> <ul style="list-style-type: none"> - a tumour necrosis factor-alpha inhibitor has failed (that is, the disease has responded inadequately or has lost response to treatment) - or a tumour necrosis factor-alpha inhibitor cannot be tolerated or is contraindicated. <p>For prescription by Gastroenterology only.</p>	Hospital only	
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1.6 Laxatives				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
1.6.1 Bulk forming laxatives				
Ispaghula husk	3.5g granules/sachet (orange flavour)		Suitable for initiation and continuation by primary care	
1.6.2 Stimulant laxatives				
Bisacodyl	10mg tablet, 5mg & 10mg suppository; 10mg in 30ml enema [unlicensed] 2.74mg/ml rectal solution	Paediatrics – management of constipation for patients with ACE (antegrade enema)	Suitable for initiation and continuation by primary care	
Co-danthramer	Dantron/poloxamer: 25/200mg & 37.5/500mg capsules; 25/200mg in 5ml suspension; 75/1000 mg in 5ml strong suspension	Restricted: Prophylaxis and treatment of analgesic induced constipation in the terminally ill	Suitable for initiation and continuation by primary care	
Docusate sodium	100mg capsule; 50mg in 5ml solution; 120mg enema		Suitable for initiation and continuation by primary care	
Glycerol	60mg, 1g, 2g & 4g suppository		Suitable for initiation and continuation by primary care	
Senna	7.5mg tablet; 7.5mg in 5ml liquid		Suitable for initiation and continuation by primary care	
Sodium picosulfate	5mg in 5ml elixir		Suitable for initiation and continuation by primary care	
1.6.3 Faecal softeners				
Arachis oil	130ml enema	Contains peanut oil	Suitable for initiation and continuation by primary care	
1.6.4 Osmotic laxatives				
Lactulose	3.35g in 5ml oral solution		Suitable for initiation and continuation by primary care	

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Liquid paraffin and magnesium hydroxide emulsion	Mil-par [®] (contains liquid paraffin 1.25ml in 5ml and magnesium hydroxide mixture BP 3.75ml in 5ml)		Suitable for initiation and continuation by primary care	
Macrogol Oral Powder (polyethylene glycols)	Laxido [®] sachets (adults) & Movicol Paediatric Plain [®] sachets		Suitable for initiation and continuation by primary care	
Phosphates	Cleen [®] ready to Use Enema (contains sodium acid phosphate 21.4g, sodium phosphate 9.4g/118ml)		Suitable for initiation and continuation by primary care	
Sodium citrate	Micralax [®] Micro-enema (contains sodium citrate 450mg, sodium alkylsulphoacetate 45mg, glycerol 625mg in 5ml)		Suitable for initiation and continuation by primary care	
1.6.5 Bowel cleansing preparations				
CitraFleet[®] containing:	10.97g Citric acid anhydrous, 3.5g Magnesium oxide light and 10mg Sodium picosulfate 10 mg sachets	Restricted: Adults	Suitable for initiation by primary care	
Macrogol	Klean-Prep [®] oral powder 59g/sachet	Restricted: Paediatrics	Suitable for initiation and continuation by primary care	
Moviprep[®] containing:	Macrogol 3350 with anhydrous sodium sulfate, ascorbic acid, potassium chloride, sodium ascorbate and sodium chloride sachets	Restricted: Adults	Suitable for initiation and continuation by primary care	
Sodium picosulphate with magnesium citrate	Picolax [®] oral powder 10mg/sachet	Restricted: Paediatrics	Suitable for initiation and continuation by primary care	

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1.6.6 Peripheral opioid-receptor antagonists

Methylnaltrexone	12mg in 0.6ml vial	Palliative Care Team only for the treatment of opioid induced constipation in advanced illness patients who are receiving palliative care where response to usual laxative therapy has not been sufficient.	Hospital Only	
Naloxegol	12.5 and 25mg tablets	For the treatment of opioid-induced constipation in adults whose constipation has not adequately responded to treatment with at least 2 laxative classes for at least 4 days during the prior 2 weeks. Restriction: Initiation by palliative care, inpatient, and chronic pain teams only	Suitable for continuation by primary care	

1.6.7 5HT₄ – receptor agonists and guanylate cyclase-C receptor agonists

Prucalopride	1mg, 2mg tablets	Recommended for the treatment of chronic constipation in women for whom treatment with at least 2 laxatives from different classes, at the highest tolerated recommended doses for at least 6 months, has failed and invasive treatment is being considered.	Suitable for initiation and continuation by primary care	
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Linacotide	290mcg capsules	<p>Symptomatic treatment of moderate-to-severe irritable bowel syndrome with constipation (IBS-C) in adults.</p> <p>See protocol for initiation pathway.</p> <p>Restricted: Consultant gastroenterologist or colorectal surgeons</p>	Initiation by secondary care; suitable for continuation by primary care	
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1.7 Local Preparations for Anal and Rectal Disorders				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
1.7.1 Soothing haemorrhoidal preparations				
Anusol [®]	Cream 23g; ointment 25g; suppositories (zinc oxide, bismuth oxide, bismuth subgallate, balsam peru)		Suitable for initiation and continuation by primary care	
1.7.2 Compound haemorrhoidal preparations with corticosteroids				
Anusol HC [®]	Ointment 30g (benzoyl benzoate 1.25%, bismuth oxide 0.875%, bismuth subgallate 2.25%, hydrocortisone 0.25%, peru balsam 1.875%, zinc oxide 10.75%) Suppositories (benzoyl benzoate 33mg, bismuth oxide 24mg, bismuth subgallate 59mg, hydrocortisone acetate 10mg, peru balsam 49mg, zinc oxide 296mg)		Suitable for initiation and continuation by primary care	
1.7.3 Rectal sclerosants				
Phenol in Oil	5% Injection 5ml		Hospital only	
1.7.4 Management of anal fissures				
Diltiazem	2% cream [Unlicensed Special]	2nd line treatment of anal fissures in patients who are unable to tolerate headache with GTN	Suitable for initiation and continuation by primary care	
Glyceryl trinitrate	0.4% ointment (Rectogesic [®])	1st line treatment of anal fissures Do not confuse with higher strengths of GTN ointment used to treat angina	Suitable for initiation and continuation by primary care	

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1.9 Drugs Affecting Intestinal Secretions

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
1.9.1 Drugs affecting biliary composition and flow				
Obeticholic acid	5mg, 10mg tablets	Restricted: Treatment of Primary biliary cholangitis NICE TA(443) : <ul style="list-style-type: none"> As an adjunct treatment for patients with an inadequate response to ursodeoxycholic acid or as monotherapy in patients unable to tolerate ursodeoxycholic acid For prescription by consultant hepatologists only 	Hospital Only	
Ursodeoxycholic acid	150mg tablet; 250mg capsule; 250mg in 5ml suspension	Ursofalk® suspension is sugar-free	Suitable for initiation and continuation by primary care	
1.9.2 Bile acid sequestrants				
Colestyramine	4g sachet (Questran®)		Suitable for initiation and continuation by primary care	
1.9.4 Pancreatin				
Creon 10,000	Capsule (protease 600units, lipase 10,000units, amylase 800units)	Pork pancreatin	Suitable for initiation and continuation by primary care	
Creon 25,000	Capsule (protease 1,000units, lipase 25,000units, amylase 18,000units)	Pork pancreatin	Suitable for initiation and continuation by primary care	
Creon 40,000	Capsule (protease 1,600units, lipase 40,000units, amylase 25,000units)	Pork pancreatin	Suitable for initiation and continuation by primary care	

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Pancrex V	Capsule (protease 430units, lipase 8,000units, amylase 9,000units) EC tablet (protease 110units, lipase 1,900units, amylase 1,700units)	Pork pancreatin	Suitable for initiation and continuation by primary care	
Pancrex V 125	Capsule (protease 160units, lipase 2,950units, amylase 3,300units)	Pork pancreatin	Suitable for initiation and continuation by primary care	
Pancrex V Forte	EC tablet (protease 330units, lipase 5,600units, amylase 30,000units)	Pork pancreatin	Suitable for initiation and continuation by primary care	

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Chapter 2: Cardiovascular System

2.1 Positive Inotropic Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.1.1 Cardiac glycosides				
Digoxin	62.5microgram, 125microgram & 250 microgram tablets; 50microgram per ml elixir; 500microgram in 2ml injection		Suitable for initiation and continuation by primary care	
Digoxin immune fab (Digifab [®])	40mg vial	For the treatment of digoxin toxicity for use according to the SmPC, the National Poisons Information Service and the Toxbase [®] Database	Hospital only	
2.1.2 Phosphodiesterase inhibitors				
Milrinone	10mg in 10ml injection		Hospital only	

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2.2 Diuretics				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.2.1 Thiazides and related diuretics				
Bendroflumethiazide	2.5mg & 5mg tablets		Suitable for initiation and continuation by primary care	
Indapamide	2.5mg tablet	For the treatment of hypertension according to NICE guidelines.	Suitable for initiation and continuation by primary care	
Metolazone	5mg tablet	Unlicensed Medicine	Suitable for initiation and continuation by primary care	
2.2.2 Loop diuretics				
Bumetanide	1mg & 5mg tablets; 1mg in 5ml liquid (Burinex [®] sugar-free); 2mg in 4ml injection		Suitable for initiation and continuation by primary care	
Furosemide	20mg, 40mg & 500mg tablets; 40mg in 5ml liquid (Rosemont sugar-free); 20mg in 2ml injection; 50mg in 50ml injection; 250mg in 5ml injection		Suitable for initiation and continuation by primary care	
2.2.3 Potassium-sparing diuretics and aldosterone antagonists				
Amiloride	5mg tablet		Suitable for initiation and continuation by primary care	
Eplerenone	25mg tablet	Restricted use: To be initiated by cardiology only	Suitable for continuation by primary care	
Spironolactone	25mg & 100mg tablets; 50mg in 5ml suspension (Rosemont sugar-free)		Suitable for initiation and continuation by primary care	
2.2.4 Potassium-sparing diuretics with other diuretics				
Co-amilofruse	2.5/20mg tablet; 5/40mg tablet	Contains amiloride & furosemide	Suitable for initiation and continuation by primary care	
Co-amilozide	5/50mg tablet	Contains amiloride & hydrochlorothiazide	Suitable for initiation and continuation by primary care	
2.2.5 Osmotic diuretics				
Mannitol	10% injection; 20% injection		Hospital only	
2.2.7 Carbonic anhydrase inhibitors				

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Acetazolamide	250mg tablet; 250mg SR tablet; 500mg injection		Suitable for initiation and continuation by primary care	
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2.3 Anti-arrhythmic Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.3.2 Drugs for arrhythmias				
In all acute tachycardias with a wide QRS complex, it is advisable to seek expert advice unless the precise nature of the arrhythmia is known. The use of the incorrect drug in these circumstances is dangerous. Adenosine can be helpful diagnostically in this setting because its shorter action makes it relatively safe. Failure of the tachycardia to respond suggests that it is ventricular rather than supraventricular.				
Supraventricular arrhythmias				
Adenosine	6mg in 2ml injection; 130mg in 130ml infusion		Hospital only	
Supraventricular and ventricular arrhythmias				
Amiodarone	100mg & 200mg tablets; 150mg in 3ml injection; 300mg in 10ml pre-filled syringe		Suitable for initiation and continuation by primary care	
Disopyramide	100mg capsule; 50mg in 5ml injection		Suitable for initiation and continuation by primary care	
Flecainide	50mg & 100mg tablet; 150mg in 15ml injection		Suitable for initiation and continuation by primary care	
Mexiletine	50mg and 200mg capsules [unlicensed]; 250mg in 10mg injection [unlicensed]		Suitable for continuation by primary care	
Procainamide	250mg tablet; 1000mg in 10ml injection		Suitable for initiation and continuation by primary care	
Propafenone	150mg tablet		Suitable for initiation and continuation by primary care	
Hydroquinidine	250mg capsule	Restricted to Cardiology consultants only	Suitable for continuation by primary care	
Ventricular arrhythmias				
Lidocaine	1% 5ml injection; 1% 10ml minijet 2% 5ml injection; 2% 20ml injection; 2% 5ml minijet; 0.2% in glucose 5% bags		Hospital only	

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2.4 Beta Adrenoreceptor Blocking Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Beta-adrenoreceptor blocking drugs				
Atenolol	25mg, 50mg & 100mg tablets; 25mg in 5ml syrup (Tenormin® = sugar-free); 5mg in 10ml injection		Suitable for initiation and continuation by primary care	
Bisoprolol	1.25mg, 2.5mg & 5mg tablets		Suitable for initiation and continuation by primary care	
Carvedilol	3.125mg & 12.5mg tablets	Restricted to cardiology only For the treatment of NYHA Class IV congestive cardiac failure resistant to other treatments	Suitable for initiation continuation by primary care	
Esmolol	2.5g in 10ml injection	Restricted to Intensivists and cardiac services only	Hospital only	
Labetalol	100mg & 200mg tablets; 100mg in 20ml injection		Suitable for initiation and continuation by primary care	
Metoprolol	50mg & 100mg tablets; 5mg in 5ml injection		Suitable for initiation and continuation by primary care	
Propranolol	10mg & 40mg tablets; 80mg SR capsule; 160mg SR capsule; 5mg in 5ml and 50mg in 5ml suspension; 1mg in 1ml injection	5mg in 5ml suspension for use in Paediatrics for treatment of infantile hemangiomas	Suitable for initiation and continuation by primary care Treatment of infantile hemangiomas – Hospital only	
Sotalol	40mg & 80mg tablets; 40mg in 4ml injection		Suitable for initiation and continuation by primary care	
Beta-adrenoreceptor blocking drugs + Diuretic				
Co-tenidone	Atenolol / chlorthalidone 50/12.5mg tablet; 100/25mg tablet;		Suitable for initiation and continuation by primary care	

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Medicines Formulary

2.5 Hypertension and Heart Failure

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.5.1 Vasodilator antihypertensive drugs				
Bosentan [NON FORMULARY]	62.5mg & 125mg tablets	Must only be initiated by GOSH	Suitable for continuation by primary care	
Hydralazine	25mg tablet; 20mg in 1 ml injection		Tablet suitable for initiation and continuation by primary care	
Iloprost	50microgram in 0.5ml injection [unlicensed]	Restricted to critical limb or digital ischaemia. Restricted for use by consultant vascular surgeons.	Hospital only	
Nitric Oxide	Inhaled	For rescue / bridging therapy in patients with: a) Acute refractory hypoxaemic respiratory failure secondary to a potentially reversible cause AND / OR b) Acute refractory RIGHT heart failure secondary to a potentially reversible cause in order selectively to decrease pulmonary arterial pressure and improve right ventricular function and oxygenation	Hospital Only	

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Sildenafil	50mg & 100mg tablets 10mg/ml liquid	<p>Restricted use: Women's and Children-neonatal and paediatric use only</p> <p>Restricted use: For treatment of acute secondary pulmonary hypertension, peri-mitral valve surgery, and in acute lung injury in critical care. For short term use.</p> <p>Note: SGH is not a designated treatment centre for pulmonary hypertension, thus must not initiate patients on sildenafil. Exceptions are:</p> <ol style="list-style-type: none"> 1. patients already on the exclusion list 2. short-term treatment of acute pulmonary hypertension secondary to peri-mitral valve surgery, and in acute lung injury in critical care. 	Hospital only	
Sodium Nitroprusside	50mg in 2ml injection [unlicensed]	Use on specialist advice	Hospital only	

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2.5.2 Centrally acting antihypertensive drugs

Clonidine	100 microgram tablet 25mg tablet; 50 microgram/5ml liquid 150 microgram in 1ml injection	100 microgram tablet – Paediatrics Only – Sedation and management of withdrawal symptoms in paediatric patients For sedation and management of withdrawal symptoms in neonatal and paediatric patients Restricted: Neonates and paediatrics only Unlicensed use of injection for delirium is restricted to Critical Care only	Hospital Only	
Methyldopa	125mg, 250mg & 500mg tablets	Drug of choice in pregnancy	Suitable for continuation by primary care	
2.5.4 Alpha-adrenoceptor blocking drugs				
Doxazosin	1mg, 2mg & 4mg tablets		Suitable for initiation and continuation by primary care	
Prazosin	500microgram, 1mg & 2mg tablets		Suitable for initiation and continuation by primary care	
Phaeochromocytoma				
Phenoxybenzamine	10mg capsule		Suitable for initiation and continuation by primary care	

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Phentolamine	10mg in 1ml injection	Digital ischaemia related to injection of epinephrine Resistant hypertension related by sympathomimetic drugs of abuse, MAOIs, clonidine <i>Unlicensed preparation to be used during period of shortage.</i>	Hospital only	
2.5.5 Drugs affecting the renin-angiotensin system				
2.5.5.1 Angiotensin-converting enzyme inhibitors				
Captopril	12.5mg, 25mg & 50mg tablets	Not for initiation in new patients. Not for outpatient prescribing. Only use for re-supply to patients admitted on therapy, or test dosing in patients new the ACE inhibitors.	Suitable for initiation and continuation by primary care	
Enalapril	2.5mg, 5mg, 10mg & 20mg tablets		Suitable for initiation and continuation by primary care	
Lisinopril	2.5mg, 5mg, 10mg & 20mg tablets		Suitable for initiation and continuation by primary care	
Ramipril	1.25mg, 2.5mg, 5mg & 10mg capsules		Suitable for initiation and continuation by primary care	
2.5.5.2 Angiotensin-II receptor antagonists				
Candesartan	2mg, 4mg, 8mg & 16mg tablets		Suitable for initiation and continuation by primary care	
Irbesartan	75mg, 150mg & 300mg tablets		Suitable for initiation and continuation by primary care	
Losartan	50mg tablet		Suitable for initiation and continuation by primary care	
Valsartan	40mg capsule	For treatment of left ventricular failure post MI. To be initiated by Cardiology only	Suitable for initiation and continuation by primary care	

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Valsartan with Sacubitril	24/26mg; 49/51mg; and 97/103mg tablets	To be introduced and uptitrated under the care of the Heart failure team	Suitable for continuation by primary care	
2.5.6 Other				
Levosimendan	12.5mg/5ml	Restricted: Cardiac theatres/ Critical care	Hospital Only	
Tafamidis (Vyndaqel®)	61mg capsule	Restricted: Heart failure consultant (Lisa Anderson) Review date June 2020 following NICE TA	Hospital Only	

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Medicines Formulary

2.6 Nitrates, Calcium Channel Blockers and Related Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.6.1 Nitrates				
Glyceryl Trinitrate (GTN)	500 microgram tablet; 5mg & 10mg patches; 2% ointment; 400 micrograms per dose SL spray; 5mg in 5ml injection; 50mg in 50ml injection		Suitable for initiation and continuation by primary care	
	200 micrograms by intra-arterial bolus injection	Restricted: Diagnostic and Interventional Neuroradiologists	Hospital Only	
Isosorbide Mononitrate	10mg & 20mg tablets; 60mg MR tablet	60mg MR tablets may be halved, but must not be crushed.	Suitable for initiation and continuation by primary care	
2.6.2 Calcium-channel blockers				
Amlodipine	5mg & 10mg tablets		Suitable for initiation and continuation by primary care	
Diltiazem	Standard formulation: 60mg tablet Long-acting formulations: 60mg MR tablet; 90mg and 120mg MR tablets (Tildiem Retard [®]); 200mg & 300mg MR capsules (Tildiem LA [®])		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Nicardipine	5 mg/ml injection	For intra-arterial nicardipine to be added to the formulary as a desirable clinical advance for the treatment of cerebral vasospasm after subarachnoid haemorrhage restricted to consultant neuro-radiologists.	Hospital only	
Nifedipine	10mg capsule; 10mg & 20mg MR tablets 30mg & 60mg XL tablets 20mg in 1ml oral drops [unlicensed]	Oral drops restricted to paediatrics on a single named patient basis only. Subject to completion of an unlicensed form.	Suitable for initiation and continuation by primary care	
Nimodipine	30mg tablet; 10mg in 50ml injection	Restricted to Critical Care and Neurosciences only	Suitable for initiation and continuation by primary care	
Verapamil	40mg, 80mg & 120mg tablets; 120mg & 240mg MR capsules; 5mg in 5ml injection 5mg in 2ml injection	Restricted: Diagnostic and Interventional Neuroradiologists	Suitable for initiation and continuation by primary care Hospital Only	

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2.6.3 Other Antianginal Drugs

Ivabradine	5mg & 7.5mg tablets	<p>For use by the heart failure team for patients with chronic heart failure on maximal standard heart failure medication with resting heart rate ≥ 70 beats per minute according to the South London Cardiac and Stroke Network protocol. It is not approved generally for use in cardiology.</p> <p>For chronic stable angina for patients contraindicated or unable to tolerate beta-blockers or in combination with beta-blockers for patients inadequately controlled by the maximum tolerated dose of beta-blocker, with a resting HR > 60 BPM and in sinus rhythm (as per ESC guidelines). For use in cardiology and elderly medicine as per local protocol</p>	Initiation and dose titration under hospital supervision. Then continuation by primary care as per SLCSN protocol	
Nicorandil	10mg & 20mg tablets		Suitable for initiation and continuation by primary care	

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Ranolazine	375mg, 500mg & 750mg M/R tablets	Add-on therapy for the symptomatic treatment of patients with stable angina pectoris who are inadequately controlled or intolerant to first-line antianginal therapies (such as beta-blockers and/or calcium antagonists).	Suitable for initiation and continuation by primary care	
2.6.4 Peripheral vasodilators				
Cilostazol	100mg tablet	Restricted to patients with peripheral arterial disease with moderate to severe symptoms of intermittent claudication, and unable to undertake an exercise programme. Prescribing restricted to vascular consultants and specialist registrars.	Suitable for continuation by primary care	
Cinnarizine	15mg tablet		Suitable for initiation and continuation by primary care	
Naftidrofuryl	100mg capsule		Suitable for initiation and continuation by primary care	
Pentoxifylline	400mg MR tablet		Suitable for initiation and continuation by primary care	

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2.7 Sympathomimetics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.7.1 Ionotropic sympathomimetics				
Dobutamine	250mg in 20ml injection	Critical Care and HDU only (see local protocol)	Hospital only	
Dopamine	200mg in 5ml injection	Critical Care and HDU only (see local protocol)	Hospital only	
Dopexamine	50mg in 5ml injection	Critical Care only	Hospital only	
Isoprenaline	100 micrograms in 1ml injection	Critical Care and Cathlab only	Hospital only	
2.7.2 Vasoconstrictor sympathomimetics				
Ephedrine	30mg in 1ml injection	Critical Care only	Hospital only	
Metaraminol	10mg in 1ml injection	Critical Care and HDU only	Hospital only	
Noradrenaline (Norepinephrine)	4mg in 2ml injection; 8mg in 4ml injection; 100mg in 20ml injection	Critical Care and HDU only (see local protocol)	Hospital only	
Phenylephrine	10mg in 1ml (10%) injection	Critical Care only	Hospital only	
Midodrine	5mg Tablet	Cardiology	Following the initial 3 month period and when the patient is on a stable dose of midodrine, prescribing responsibility may be considered for transfer to the patient's own GP, when the consultant and the GP are in agreement that the patient's condition is stable or predictable. Transfer of prescribing responsibility should be followed and appropriate documents completed and forwarded to the GP to ensure seamless care.	

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Adrenaline (Epinephrine)	1mg in 10ml (1 in 10,000) injection; 1mg in 10ml (1 in 10,000) pre-filled syringe	Critical Care only – refer to Junior doctor's handbook (paper version available on the Unit) Inoconstrictor dose in adults: 0.01 – 1 mcg/kg/min	Hospital only	
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2.8 Anticoagulants

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
2.8.1 Parenteral anticoagulants				
Argatroban	100mg/ml injection	Restricted: On advice of Consultant Haematologists Anticoagulation in adult patients with Heparin Induced Thrombocytopenia (HIT)	Hospital only	
Bivalirudin	250mg injection	Anticoagulant in patients undergoing percutaneous coronary intervention (PCI)	Hospital only	
Dalteparin	Ampoule: 10,000 units in 1ml Syringe: 2,500 units in 0.2ml; 5,000 units in 0.2ml; 7,500 units in 0.3ml; 10,000 units in 0.4ml; 12,500 units in 0.5ml, 15,000 units in 0.6ml; 18,000 units in 0.72ml		Hospital only	
Danaparoid	750 units/0.6ml injection	Restricted: On advice of Consultant Haematologists First line option for anticoagulation for pregnant women Heparin Induced Thrombocytopenia (HIT) Second line option for anticoagulation in adult patients with HIT	Hospital only	

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Epoprostenol	500 microgram vial	Restricted: Critical Care Use only	Hospital only	
Fondaparinux	2.5mg in 0.5ml for injection pre-filled syringe 1.5mg in 0.3ml for injection pre-filled syringe	Restricted: 1 st line treatment of Acute Coronary Syndromes only Restricted: Treatment of acute symptomatic spontaneous superficial-vein thrombosis (SVT) in adults (without concomitant deep-vein thrombosis) – on Haematology advice only	Hospital only	
Heparin	Heparin Mucous: 25,000 units in 5ml injection Heparin Sodium: 1,000 units in 1ml injection; 5,000 units in 1ml injection; 10,000 units in 10ml injection; 20,000 units in 20ml injection; 25,000 units in 1ml injection Heparin Flush: 200 units in 2ml		Hospital only	
Tinzaparin	Pre-filled Syringe: 2,500 units in 0.25ml; 3,500 units in 0.35ml; 4,500 units in 0.45ml	For anticoagulation during haemodialysis in patients with chronic renal insufficiency	Hospital only	
2.8.2 Oral anticoagulants				
Acenocoumarol	1mg & 4mg tablets		Suitable for initiation and continuation by primary care	
Apixaban	2.5mg, 5mg tablets	Restricted to: On advice of Consultants in Cardiology, Stroke and Haematology For the second line prevention of stroke and systemic embolism in adult patients with non-valvular atrial	For initiation by hospital. First three months to be supplied by hospital then transferred to Primary Care	

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		<p>fibrillation (NVAF), with one or more risk factors, such as:</p> <ul style="list-style-type: none"> prior stroke, systemic embolism, or transient ischaemic attack (TIA) age > 75 years Controlled Hypertension (<180/110mmHg) diabetes mellitus symptomatic heart failure (NYHA Class > II) <p>For the treatment of deep vein thrombosis (DVT), treatment of pulmonary embolus (PE) and prevention of recurrent DVT and PE in adults – on the advice on haematology only</p>		
Dabigatran Etexilate	110mg, 150mg capsules	<p>Restricted to:</p> <p>On advice of Consultants in Cardiology, Stroke and Haematology</p> <p>For the second line prevention of stroke and systemic embolism in people with non-valvular atrial fibrillation and one or more of the following risk factors</p> <ul style="list-style-type: none"> Previous stroke, transient ischaemic attack or systemic embolism 	<p>For initiation by hospital.</p> <p>First three months to be supplied by hospital then transferred to Primary Care</p>	

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		<ul style="list-style-type: none"> • Left ventricular ejection fraction < 40% • Symptomatic heart failure of NYHA class 2 or above • Age 75 years or older • Age 65 years or older with one or more of the following: diabetes mellitus, controlled hypertension (<180/110mmHg) <p>Restricted on haematology advice for: Treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE), and prevention of recurrent DVT and PE in adults.</p>		
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Edoxaban	15mg, 30mg and 60mg tablets	<p>Restricted: on haematology advice for:</p> <p>Treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE), and prevention of recurrent DVT and PE in adults.</p> <p>As a treatment option for the prevention of stroke and systemic embolism in adult patients with nonvalvular atrial fibrillation (NVAf) with one or more risk factors, such as</p> <ul style="list-style-type: none"> • congestive heart failure, • hypertension, • age \geq 75 years, • diabetes mellitus, • prior stroke or transient ischaemic attack (TIA). 	<p>Initiation by hospital only.</p> <p>First three months to be supplied by hospital then transferred to Primary Care</p> <p>(VTE & NVAf indications only)</p>	
Idarucizumab	2.5g / 50mL solution for injection	<p>Restricted: For prescription by emergency care and haematology under the advice of haematology.</p> <p>For use as a specific reversal agent in adult patients treated with dabigatran etexilate when rapid reversal of its anticoagulant effects is required:</p> <ul style="list-style-type: none"> • For emergency surgery/urgent procedures • In life-threatening or uncontrolled bleeding 	Hospital only	

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Phenindione	10mg, 25mg & 50mg tablets		Suitable for initiation and continuation by primary care	
Rivaroxaban	10mg, 15mg, 20mg tablet	<p>VTE Prescribing No restrictions</p> <p>Secondary VTE Prevention Prescribing On advice of Haematology</p> <p>SPAF Prescribing Restricted to: On advice of Consultants in Cardiology, Stroke and Haematology</p> <p>T&O Prescribing Restricted to: On advice of Consultants in Trauma and Orthopaedics</p> <p>First line therapy for prophylaxis of venous thromboembolism following elective knee and hip replacement surgery.</p> <p>First line treatment and secondary prevention of deep vein thrombosis (DVT) and pulmonary embolus (PE)</p> <p>For the second line prevention of stroke and systemic embolism in adult patients with non-valvular atrial fibrillation (NVAf), with one or more risk factors, such as:</p> <ul style="list-style-type: none"> prior stroke, systolic embolism or 	<p>For initiation by hospital.</p> <p>First three months to be supplied by hospital then transferred to Primary Care</p> <p>(VTE & SPAF indications only)</p>	

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		transient ischaemic attack (TIA) <ul style="list-style-type: none"> • age > 75 years • diabetes mellitus • symptomatic heart failure (NYHA Class > II) • LVEF <35% • Controlled Hypertension (<180/110mmHg) 		
Warfarin	500 microgram, 1mg, 3mg & 5mg tablets	Warning: risk of confusion in identifying between 500microgram and 5mg tablets. Must be prescribed using an inpatient warfarin chart. Appropriate counselling (with yellow book) and arrangements for INR monitoring must be in place before supplying warfarin to outpatients or on a TTA	Suitable for initiation and continuation by primary care	
2.8.3 Protamine				
Protamine	50mg in 5ml injection		Hospital only	

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2.9 Antiplatelet Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Abciximab	10mg in 5ml injection	For high risk patients undergoing angioplasty/stent procedures according to local protocol and NICE guidance for glycoprotein IIb/IIIa inhibitors in ACS (NICE technology appraisal 47)	Hospital only	
Aspirin	75mg dispersible tablet; 75mg EC tablet; 300mg dispersible tablet 1000mg injection [unlicensed preparation]	Injection Restricted: Interventional Neuroradiography team For patients under GA to prevent thrombus formation when a stent is inserted acutely during thrombectomy or aneurysm coiling, or when coil prolapse during coiling.	Suitable for initiation and continuation by primary care Hospital Only	
Cangrelor	50mg/10ml vial	Restricted: Interventional Cardiologists	Hospital only	
Clopidogrel	75mg tablet	Use in accordance with NICE guidance for unstable angina and NSTEMI (NICE clinical guideline 94) and vascular disease (NICE technology appraisal 90)	Suitable for initiation and continuation by primary care	
Dipyridamole	100mg tablet; 200mg MR capsule	Use in accordance with NICE guidance for vascular disease (NICE technology appraisal 90)	Suitable for initiation and continuation by primary care	

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Eptifibatide	20mg in 10mL injection & 75mg in 100mL injection	<p>Restricted for use under specialist supervision only</p> <p>Use in accordance with NICE guidance for glycoprotein IIb/IIIa inhibitors in ACS (NICE TA47)</p> <p>Off-label indication – Neuroradiology team Only:</p> <p>Rescue treatment of thromboembolic complications during endovascular treatment for cerebral aneurysm</p>	Hospital only	
Prasugrel	10mg tablets	<p>2nd line to clopidogrel for patients who have reinfarction or stent thrombosis while taking aspirin and clopidogrel, OR who have significant allergic reaction to clopidogrel requiring premature cessation of clopidogrel therapy</p>	Suitable for continuation by primary care	

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Ticagrelor	90mg tablets	<p>Restricted to: Initiation by SpR or Consultant in Cardiology</p> <p>For use in combination with low-dose aspirin for up to 12 months for treatment in adults with acute coronary syndromes (ACS):</p> <ul style="list-style-type: none"> ➤ ST-segment-elevation myocardial infarction (STEMI) – defined as ST elevation or new left bundle branch block on electrocardiogram – that cardiologists intend to treat with primary percutaneous coronary intervention (PCI) ➤ High risk Non-ST-segment-elevation acute coronary syndrome- Patients requiring angiography or percutaneous coronary intervention within 24 hours: ➤ Unstable angina (UA) and non ST-segment elevation myocardial infarction (NSTEMI) complaining of rapidly worsening, or on-going cardiac chest pain occurring at rest, or of pain of recent onset occurring with trivial provocation with at least one of the following: <ul style="list-style-type: none"> • Continued on next page 	Suitable for continuation by primary care	
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Ticagrelor (continued)		<ul style="list-style-type: none"> • persistent ECG changes of ST depression ≥ 1 mm • symmetrical deep T wave inversion ≥ 2 mm • transient STelevation • deep T wave inversion V1-V4 / LAD syndrome • Haemodynamic (eg: hypotension, pulmonary oedema or heart failure) or electrical instability (sustained ventricular arrhythmias – VT/VF) which are thought to be due to cardiac ischaemia. <p>Before ticagrelor is continued beyond the initial treatment, the diagnosis of unstable angina should first be confirmed, by a Cardiologist (i.e. continuation on discharge dependant on a confirmed diagnosis by a Cardiologist).</p>		
Tirofiban	12.5mg in 50ml injection	<p>Restricted to use by Cardiology Only. To be used under specialist supervision</p> <p>Use in accordance with NICE guidance for glycoprotein IIb/IIIa inhibitors in ACS (NICE technology appraisal 47)</p>	Hospital only	

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2.10 Fibrolytic Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Alteplase	10mg & 20mg injections; 50mg vial + 50ml WFI injection	Used for the treatment of ischaemic stroke and pulmonary embolism. Catheter-Directed Thrombolysis (CDT) via intra-arterial or intravenous route for acute ischaemia of lower extremities or peripheral arterial occlusion. Vascular Surgery	Hospital only	
Streptokinase	1.5 million unit injection	Cardiology Use Only. Used for the treatment of temporary pacing wires and clots around wires.	Hospital only	
Tenecteplase	40mg (8,000 unit) injection; 50mg (10,000 unit) injection	Used for patients with MI unable to have PCI in cathlab	Hospital only	
Urokinase	10,000 unit injection [unlicensed]	Occluded intravenous catheters and cannulas blocked by fibrin clots Dose: 10 000 units in 2 – 3mL of sodium chloride 0.9%, should be retained in the line for 2 – 4hours before aspirating	Hospital only	

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Medicines Formulary

2.11 Antifibrinolytic Drugs and Haemostatics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Drotrecogin Alfa (activated)	5mg injection	Use under specialist supervision only. Use in accordance with NICE guidance for severe sepsis (NICE technology appraisal 84)	Hospital only – use suspended until further notice	
Fibrin sealant (Evicel®)	Human clottable protein containing mainly fibrinogen and fibronectin (component 1) plus human thrombin (component 2)	Restricted to Consultant Trauma & Orthopaedic Surgeons or Senior Fellows only for indications listed in local protocol	Hospital only	
M-Doc (Seal-On®) Nasal Pugs	Nasal Plug x 2 unit pack	For patients with recurrent epistaxis where local causes have been eliminated	Suitable for initiation and continuation by primary care	
Tranexamic Acid	500mg tablet; 50mg in 5ml suspension [extemporaneous – unlicensed special]; 500mg in 5ml injection	When used in Major Trauma, restricted to A&E Consultants & A&E Registrars only	Suitable for initiation and continuation by primary care	

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2.12 Lipid Regulating Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Statins				
Atorvastatin	10mg tablet		Suitable for initiation and continuation by primary care	
Atorvastatin	20mg tablet		Suitable for initiation and continuation by primary care	
Atorvastatin	40mg tablet		Suitable for initiation and continuation by primary care	
Pravastatin	10mg, 20mg & 40mg tablets		Suitable for initiation and continuation by primary care	
Rosuvastatin	10mg & 20mg tablets	Restricted use: Initiation on the recommendation of a Consultant in the Lipid Clinic only	Suitable for initiation and continuation by primary care	
Simvastatin	10mg, 20mg, & 40mg tablets		Suitable for initiation and continuation by primary care	
Bile acid sequestrants				
Colesevelam	625mg tablet	To be initiated by Gastroenterology in patients with a diagnosis of bile acid malabsorption (BAM) and are intolerant to Colestyramine, or in those patients whom Colestyramine usage has resulted in treatment failure	Suitable for continuation by primary care	
Colestyramine	4g sachet		Suitable for initiation and continuation by primary care	
Ezetimibe	10mg tablet	Use in accordance with NICE guidance for primary hypercholesterolaemia (NICE technology appraisal 132)	Suitable for initiation and continuation by primary care	
Fibrates				
Bezafibrate	200mg tablet, 400mg MR tablet	Refer to MHRA and CHM safety advice	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Fenofibrate	67mg & 200mg capsule, 160mg tablet	Refer to MHRA and CHM safety advice	Suitable for initiation and continuation by primary care	
Omega-3 fatty acid compounds				
Omega 3 Acid Esters (Omacor®)	1g capsules	<p>Use in accordance with NICE guidance for secondary prevention following an MI (NICE clinical guideline 48)</p> <p>Adjuvant treatment in secondary prevention after myocardial infarction.</p> <p>Adjunctive therapy in the reduction of plasma triglycerides in patients with hypertriglyceridaemia at risk of ischaemic heart disease or pancreatitis</p>	Suitable for initiation and continuation by primary care	

**St George's University Hospitals NHS Foundation Trust
Medicines Formulary****2.13 Local Sclerosants**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Ethanolamine Oleate	5% injection 5ml ampoule		Hospital only	
Phenol in Oil	5% injection 5ml ampoule		Hospital only	
Sodium tetradecyl sulphate	1% injection 2ml ampoule; 3% injection 2ml ampoule		Hospital only	

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Medicines Formulary

2.14 Other

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Bretschneiders Histidine-Tryptophan-Ketoglutarate (HTK) Cardioplegia Solution (Custodiol Cardioplegia [®]) (Unlicensed Product)	Infusion Bag	Restricted Use: Consultant Cardiac Surgeons for myocardial protection during surgery for patients undergoing mitral valve replacement/repair via thoracotomies.	Hospital Only	
Acetylcholine	20mg injection	Restricted Use: Cardiology consultants (Professor Prasad and Dr Lim only) for the assessment of coronary artery endothelial function testing in patients with chest pain and normal coronary arteries.	Hospital Only	
Alirocumab	75 mg/ml solution for injection 150 mg/ml solution for injection	Treatment of adults with Primary hypercholesterolaemia (heterozygous familial and non-familial) and mixed dyslipidaemia.	Hospital Only	
Evolucumab	140 mg solution for injection in pre-filled pen 140 mg solution for injection in pre-filled syringe	Cardiology - Lipid Specialist only Treatment of adults with Primary hypercholesterolaemia (heterozygous familial and non-familial) and mixed dyslipidaemia. Restricted Use: Lipid Specialist Consultant	Hospital Only	

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Medicines Formulary

Chapter 3: Respiratory System

3.1 Bronchodilators

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
3.1.1 Adrenoceptor agonists (sympathomimetics)				
3.1.1.1 Selective beta₂ agonists				
Short-acting beta₂ agonists				
Salbutamol	100micrograms/dose CFC-free metered dose inhaler; 100micrograms/dose Easi-Breathe [®] autohaler; 2.5mg & 5mg nebules 8mg MR capsule; 2mg in 5ml sugar-free syrup; 500 micrograms in 1ml injection; 5mg in 5ml injection		Suitable for initiation and continuation by primary care	
Terbutaline	500 micrograms/dose tubohaler		Suitable for initiation and continuation by primary care	
Long-acting beta₂ agonists				
Formoterol	6 micrograms/dose & 12 micrograms/dose turbohaler	Refer to BNF for CHM advice	Suitable for initiation and continuation by primary care	
Indacaterol	150 micrograms/dose & 300 micrograms/dose dry powder for inhalation	For the treatment of COPD for use by Chest Physicians according to NHS Wandsworth Medicines Management of COPD Guidelines		

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Medicines Formulary

Relvar Ellipta® containing: Fluticasone furoate and Vilanterol	184 micrograms and 22 micrograms of vilanterol (as trifenatate). This corresponds to a pre-dispensed dose of 200 micrograms of fluticasone furoate and 25 micrograms vilanterol (as trifenatate). 92 micrograms and 22 micrograms of vilanterol (as trifenatate). This corresponds to a pre-dispensed dose of 100 micrograms of fluticasone furoate and 25 micrograms vilanterol (as trifenatate).		Suitable for initiation and continuation by primary care	
Salmeterol	25 micrograms/dose Evohaler	Refer to BNF for CHM advice	Suitable for initiation and continuation by primary care	
3.1.1.2 Other adrenoceptor agonists				
Ephedrine	30mg in 1ml injection		Hospital only	

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Medicines Formulary

3.1.2 Antimuscarinic bronchodilators

Acclidinium bromide	400 microgram inhalation powder (Eklira Genuair®) NB Each 400 microgram metered inhalation of acclidinium bromide delivers 322 micrograms of acclidinium	Approved as an option for the treatment of symptoms and prevention of exacerbations in patients with chronic obstructive pulmonary disease (COPD). Restricted: For prescription by respiratory consultants and trainees only.	Suitable for initiation and continuation by primary care	
Glycopyrronium	50 microgram inhalation powder, hard capsule (Seebri Breezhaler®) NB Each 50 microgram capsule of glycopyrronium delivers 44 micrograms of glycopyrronium	Approved as an option for the treatment of symptoms and prevention of exacerbations in patients with chronic obstructive pulmonary disease (COPD). Restricted: For prescription by respiratory consultants and trainees only.	Suitable for initiation and continuation by primary care	
Ipratropium	20 micrograms/dose metered dose inhaler; 250mg & 500mg nebules		Suitable for initiation and continuation by primary care	
Tiotropium	18 microgram capsule + handihaler pack; 18 microgram capsule refill pack; 500 microgram Respimat® solution for inhalation	Refill pack preferred supply	Suitable for initiation and continuation by primary care	
Tiotropium and Olodaterol Inhaler	(Spiolto Respimat®) 2.5micrograms/ 2.5micrograms		Suitable for initiation and continuation by primary and secondary care	

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Medicines Formulary

Trimbow 87/5/9 micrograms® containing: Beclometasone dipropionate (BDP), Formoterol fumarate dihydrate and glycopyrronium	87 micrograms, 5 micrograms and 9 micrograms (as 11 micrograms glycopyrronium bromide) inhaler		Suitable for initiation and continuation by primary care	
Trelegy Ellipta 92/55/22 micrograms® containing: Fluticasone furoate, Umeclidinium bromide and vilanterol trifenate	92 micrograms, 65 micrograms (equivalent to 55 micrograms of umeclidinium) and 22 micrograms		Suitable for initiation and continuation by primary care	
Ultibro Breezhaler® containing: Indacaterol maleate and Glycopyrronium	143 micrograms equivalent to 110 micrograms and 63 micrograms equivalent to 50 micrograms Each delivered dose (the dose that leaves the mouthpiece of the inhaler) contains 110 micrograms of indacaterol maleate equivalent to 85 micrograms of indacaterol and 54 micrograms of glycopyrronium bromide equivalent to 43 micrograms of glycopyrronium.		Suitable for initiation and continuation by primary care	
3.1.3 Theophylline				
Aminophylline	Phyllocontin Continus® 225mg MR tablet; 250mg in 10ml injection		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Theophylline	Nuelin SA [®] 175mg MR tablet Slo-Phyllin [®] 250mg MR capsule Uni-phyllin [®] 200mg & 300mg MR tablet		Suitable for initiation and continuation by primary care	
3.1.5 Peak flow meters & inhaler devices				
Drug Delivery Devices	Haleraid 120 dose; Haleraid 200 dose	Device to place over pressurised (aerosol) inhalers to aid when strength in hands is impaired (e.g. in arthritis)	Suitable for initiation and continuation by primary care	
Peak Flow Meters	Mini-Wright [®] peak flow meter, low and standard range meters	Range 60 – 800 litres/minute	Suitable for initiation and continuation by primary care	
Spacer Devices	AeroChamber [®] Plus spacer device (with small, medium or large mask) Nebuhaler [®] spacer device standard & paediatric (with mask) Volumatic [®] spacer device; standard, paediatric	AeroChamber [®] Plus – medium volume device. For use with all pressurised (aerosol) inhalers Nebuhaler [®] – for use with terbutaline and budesonide aerosol inhalers Volumatic [®] – large volume device	Suitable for initiation and continuation by primary care	

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Medicines Formulary

3.2 Corticosteroids

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Beclometasone	Metered Dose Inhaler (MDI): 50 micrograms/dose, 100 micrograms/dose & 250 micrograms/dose inhaler	CFC-free inhalers should be prescribed by brand name. Only Clenil Modulite [®] is available on the formulary Refer to the BNF for advice when switching a patient from a Qvar [®] inhaler to another corticosteroid inhaler	Suitable for initiation and continuation by primary care	
Budesonide	Metered Dose Inhaler (MDI): 50 micrograms/dose & 200 micrograms/dose inhaler Breath Actuated MDI : 100 micrograms/dose, 200 micrograms/dose & 400 micrograms/dose inhaler Respules: 500 micrograms in 2ml; 1mg in 2ml		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Fluticasone	Metered Dose Inhaler (MDI): 50 micrograms/dose, 125 micrograms/dose & 250 micrograms/dose Evohaler® Breath Actuated MDI: 50 micrograms/dose & 125 micrograms/dose Accuhaler®		Suitable for initiation and continuation by primary care	
Fluticasone and salmeterol inhaler	Metered Dose Inhaler (MDI): Fluticasone/salmeterol 50/25 micrograms/dose (Evohaler 50®); 125/25 micrograms/dose (Evohaler 125®); 250/25 micrograms/dose (Evohaler 250®) Breath Actuated MDI: Fluticasone/salmeterol 100/50 micrograms/dose (100 Accuhaler®); 250/50 micrograms/dose (250 Accuhaler®); 500/50 micrograms/dose (500 Accuhaler®)	Use in accordance with NICE guidance for asthma (NICE technology appraisal 138) New patients to be initiated on SIRDUPLA® brand Seretide® for existing patients only	Suitable for initiation and continuation by primary care	
Fostair® (Beclomethasone + formoterol)	Metered Dose Inhaler (MDI): 100 micrograms/dose & 6 micrograms/dose Evohaler®	For the treatment of moderate to severe asthma (step 3 and above).	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Symbicort [®] (budesonide + formoterol)	Breath Actuated MDI: Budesonide/formote rol 100/6 micrograms/dose, 200/6 micrograms/dose &400/12 micrograms/dose Turbohaler [®]	Use in accordance with NICE guidance for asthma (NICE technology appraisal 138)	Suitable for initiation and continuation by primary care	
Cytokine modulators				
Benralizumab (Faserna [®])	30mg/ml Pre-Filled Syringes	Treatment option for severe eosinophilic asthma Restricted: Respiratory Consultants	Hospital Only	
Mepolizumab	100mg sub cutaneous injection	Refractory Eosinophilic Asthma For prescription by Dr Jane Evand and Dr Yee Ean Ong only, under direction of the bimonthly multidisciplinary meeting with the Royal Brompton Hospital Severe Asthma Centre NICE TA(431)	Hospital Only	
Omalizumab (Xolair [®])	150 mg/mL (75 mg pre-filled syringe)	Restricted Use Respiratory Consultants – Severe Asthma	Hospital Only	

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Medicines Formulary

Reslizumab (Cinqaero®)	25mg, 100mg injection	<p>For the treatment of refractory eosinophilic asthma uncontrolled on high dose inhaled corticosteroids plus one other drug, where blood eosinophil count is greater than 400 cells/ microlitre and there have been 3 or more severe exaerbations requiring systemic corticosteroids in previous 12 months.</p> <p>Restriction: For prescription by Dr Jane Evans or Dr Yee Ean Ong under the direction of the Brompton/St George's asthma hub/spoke</p>	Hospital Only	
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Medicines Formulary

3.3 Cromoglicate and Leukotriene receptor

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
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3.3.1 Cromoglicate and related therapy

Sodium cromoglicate	Metered Dose Inhaler (MDI): 5 mg/dose Intal [®] inhaler		Suitable for initiation and continuation by primary care	
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3.3.2 Leukotriene receptor antagonists

Montelukast	4mg granules ; 4mg & 5mg chewable tablets; 10mg tablets	<p>Restricted use:</p> <p>Adults – continuation of treatment for patients admitted on montelukast. May be initiated by Chest Clinic as per Montelukast Protocol.</p> <p>Children – to be initiated by a specialist in paediatric asthma. SMC advises that montelukast be used as an alternative to low-dose inhaled corticosteroids for children aged 2 – 14 years with mild persistent asthma who have not recently had serious asthma attacks that required oral corticosteroids and who are not capable of using inhaled corticosteroids.</p>	Suitable for continuation by primary care	
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St George's University Hospitals NHS Foundation Trust

Medicines Formulary

3.4 Antihistamines

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
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3.4.1 Antihistamines

Non-sedating antihistamines

Cetirizine	10mg tablet; 5mg in 5ml oral solution	1st line non-sedating antihistamine	Suitable for initiation and continuation by primary care	
Loratadine	10mg tablet; 5mg in 5ml syrup	2nd line non-sedating antihistamine	Suitable for initiation and continuation by primary care	

Sedating antihistamines

Alimemazine (Trimeprazine)	7.5mg in 5ml syrup; 30mg in 5ml syrup; 10mg in 1 ml injection		Suitable for initiation and continuation by primary care	
Chlorphenamine	4mg tablet; 2mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Hydroxyzine	10mg & 25mg tablets		Suitable for initiation and continuation by primary care	
Promethazine	10mg & 25mg tablet; 5mg in 5ml elixir; 25mg in 1 ml injection		Suitable for initiation and continuation by primary care	

3.4.2 Allergen immunotherapy

Omalizumab (Xolair®)	150 mg/mL (75 mg pre-filled syringe)	Restricted Use Dermatology consultants for chronic urticaria.	Hospital Only	
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Medicines Formulary

3.4.3 Allergic emergencies

Adrenaline (epinephrine)	Emerade[®]: (for self-administration by intramuscular injection) 500 microgram pre-filled pen (0.5ml) 300 microgram pre-filled pen (0.3ml) 150 microgram pre-filled pen (0.15ml)	IM route is 1 st choice for adrenaline administration in anaphylactic shock. Absorption from IM route is faster and more reliable than from SC. Working Group of the Resuscitation Council (UK) dosing recommendations: Child <6 years: 150 micrograms (0.15ml) by IM injection; Child 6-12 years: 300 micrograms (0.3ml) by IM injection; Adults and Children 12 – 18 years: 500 micrograms (0.5ml) by IM injection. Doses may be repeated several times if necessary at 5 minute intervals according to BP, pulse and respiratory function.	Suitable for initiation and continuation by primary care	
Angioedema				
C1 Esterase Inhibitor	500 unit injection	Acute attacks of hereditary angioedema High Cost Medicine – for a single named patients only	Hospital only	

**St George's University Hospitals NHS Foundation Trust
Medicines Formulary****3.5 Respiratory stimulants and pulmonary surfactants**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
3.5.1 Respiratory stimulants				
Doxapram	100mg in 5ml injection; 1000mg in 500ml D5W infusion		Hospital only	
3.5.2 Pulmonary Surfactants				
Poractant Alfa	120mg in 1.5ml suspension for endotracheopulmonary instillation	For the management of respiratory distress syndrome in neonates and preterm neonates. High Cost Medicine	Hospital only	

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Medicines Formulary

3.7 Mucolytics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Acetylcysteine	600mg efferevescent tablets	600mg TDS for treatment of idiopathic pulmonary fibrosis in adults in combination with prednisolone and azathioprine.	Suitable for continuation by primary care	
Acetylcysteine	2g in 10ml injection	For use via nebuliser for reduction of sputum viscosity.	Suitable for continuation by primary care	
Carbocisteine	375mg capsule; 250mg in 5ml liquid		Suitable for initiation and continuation by primary care	
Dornase Alfa	2.5mg in 2.5ml injection	High Cost Medicine – PbR excluded	Hospital only	
Hypertonic Saline	3% and 6% Nebules	For use in Paediatrics Non-cystic fibrosis (CF) bronchiectasis	Hypertonic saline (3% or 6%) is to be initiated in hospital. Once recommended, it is suitable for primary care prescribing.	

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Medicines Formulary**3.8 Aromatic Inhalations**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Benzoin Tincture, Compound BP	50ml (balsamic acids approx. 4.5%)	Add ONE teaspoonful to a pint of hot (not boiling) water and inhale the vapour	Suitable for initiation and continuation by primary care	
Menthol and Eucalyptus Inhalation, BP 1980	50ml (mfg)	Add ONE teaspoonful to a pint of hot (not boiling) water and inhale the vapour	Suitable for initiation and continuation by primary care	

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Medicines Formulary

3.9 Cough Preparations

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
3.9.1 Cough Suppressants				
Codeine linctus, BP	15mg in 5ml linctus		Suitable for initiation and continuation by primary care	
Pholcodine linctus, BP	5mg in 5ml linctus		Suitable for initiation and continuation by primary care	
Palliative Care				
Methadone linctus	2mg in 5ml linctus	Controlled Drug	Suitable for initiation and continuation by primary care	
Morphine	10mg in 5ml solution	Controlled Drug Adults: Initially 5mg every 4 hours	Suitable for initiation and continuation by primary care	
3.9.2 Demulcent and expectorant cough preparations				
Simple Linctus, BP	200ml sugar-free linctus		Suitable for initiation and continuation by primary care	

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Medicines Formulary

3.10 Systemic Nasal Decongestants

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Pseudoephedrine hydrochloride	60mg tablet; 30mg in 5ml elixir		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Chapter 4: Central Nervous System

4.1 Hypnotics and Anxiolytics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.1.1 Hypnotics				
Chloral Hydrate mixture, BP	500mg in 5ml oral solution	Initiation by a specialist only	Suitable for continuation by primary care	
Chlormethiazole	192mg capsule		Suitable for initiation and continuation by primary care	
Melatonin	2mg capsule [unlicensed]; 3mg capsule [unlicensed]; 1mg in 1ml oral solution [unlicensed]; 2mg (Circadin®) Modified Release Tablet	Unlicensed preparations restricted to: Prescribing by Neurologists for patients with neurodegenerative diseases with clinically diagnosed with REM sleep behavioural disorder (RBD) according to local protocol Circadin® Restricted to: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Nitrazepam	5mg tablet; 2/5mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Temazepam	10mg tablet; 10mg in 5ml elixir		Suitable for initiation and continuation by primary care	
Triclofos sodium	500mg in 5ml elixir	Restricted use: For sedation prior to procedures in paediatrics	Suitable for initiation and continuation by primary care	
Zopiclone	3.75mg & 7.5mg tablet		Suitable for initiation and continuation by primary care	
Zolpidem	5mg & 10mg Tablets	Restricted Use: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	

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Medicines Formulary

4.1.2 Anxiolytics

Diazepam	2mg, 5mg & 10mg tablets; 2mg in 5ml oral solution; 5mg in 5ml oral solution; 2.5mg, 5mg & 10mg rectal solution; 10mg in 2ml injection; 10mg in 2ml emulsion injection (Diazemuls [®])	The preferred parenteral formulation is the emulsion (Diazemuls [®])	Suitable for initiation and continuation by primary care	
Chlordiazepoxide	5mg & 10mg capsules	1st line for acute alcohol withdrawal	Suitable for initiation and continuation by primary care	
Acamprosate	333mg Tablets	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Disulfiram	200mg Tablets	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Nalmefene	18mg Tablets	Restricted: Continuation by Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	May be initiated by GPs only.	
Lorazepam	1mg & 2.5mg tablets; 4mg in 1ml injection		Suitable for initiation and continuation by primary care	

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Medicines Formulary

4.2 Drugs used in Psychoses and Related Disorders

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.2.1 Antipsychotic Drugs				
Chlorpromazine	10mg, 25mg 50mg & 100mg tablet, 100mg in 5ml suspension; 25mg in 5ml syrup;		Suitable for continuation by primary care	
Flupentixol Dihydrochloride	3mg Tablets	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Haloperidol	500 microgram capsule ; 1.5mg, 5mg & 10mg tablet; 1mg in 1ml, 2mg in 1ml and 5mg/5ml oral liquid; 5mg in 1ml injection	Intravenous route restricted to critical care areas – cardiac monitoring required	Suitable for continuation by primary care	
Levomepromazine	25mg in 1ml injection		Suitable for continuation by primary care	
Prochlorperazine	5mg & 25mg tablet; 5mg in 5ml syrup; 5mg suppository; 12.5mg in 1 ml injection		Suitable for continuation by primary care	
Sulpiride	200mg & 400mg tablet; 200mg in 5ml oral solution		Suitable for continuation by primary care	
Trifluoperazine	1mg & 5mg tablet; 5mg in 5ml syrup		Suitable for continuation by primary care	
Zuclopenthixol	10mg & 25mg tablet; 50mg in 1ml injection (acetate); 100mg in 2ml injection (acetate)		Suitable for continuation by primary care	
Atypical Antipsychotic Drugs				
Amisulpride	50mg, 200mg & 400mg tablet; 100mg in 1ml oral solution		Suitable for continuation by primary care	

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Medicines Formulary

Aripiprazole	5mg, 10mg & 15mg tablet; 10mg and 15mg dispersible tablet; 1mg in 1ml oral solution; 7.5mg Injection	Restricted use: Consultants seeing patients in the Tourette Clinic [unlicensed use] Restricted use: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Clozapine	25mg & 100mg tablet; 50mg/ml (Denzapine®) Solution	Restricted use: Patient, prescriber and supplying pharmacist must be registered with Patient Monitoring Service. Leukocyte and differential blood counts must be monitored. Clozapine must not be discontinued for more than 48 hours otherwise patient must be re-titrated. SGH to provide emergency supply of clozapine only. When patients are admitted a supply must be obtained through the pharmacy registered with the Patient Monitoring Service. Contact the Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust for further information.	Hospital only	

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Medicines Formulary

Olanzapine	2.5mg, 5mg, 7.5mg 10mg 15mg & 20mg tablet; 5mg, 10mg & 15mg oro-dispersible tablet; 10mg injection	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Quetiapine	25mg, 100mg, 150mg, 200mg & 300mg tablet; 50mg, 200mg, 300mg & 400mg Modified Release Tablets	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Risperidone	500mcg, 1mg, 2mg, 3mg, 4mg, 6mg tablet; 1mg in 1ml oral solution		Suitable for continuation by primary care	
4.2.2. Antipsychotic depot Injections				
Aripiprazole	400mg Depot Injection	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Flupentixol Decanoate	20mg in 1ml; 40mg in 1ml; 100mg in 1ml; 200mg in 1ml oily injection; 40mg in 2ml & 50mg in 0.5ml Injection	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Fluphenazine Decanoate	12.5mg in 0.5ml; 25mg in 1 ml; 50mg in 0.5ml; 100mg in 1ml oily injection		Suitable for continuation by primary care	
Haloperidol Decanoate	100mg in 1ml injection		Suitable for continuation by primary care	

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Medicines Formulary

Paliperidone	Monthly and 3 monthly. 25mg 75mg 100mg 150mg 175mg/0.875ml, 263mg/1.315ml, 350mg/1.75ml, 525mg/2.625ml Prolonged-release suspension for injection pre-filled syringes	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Zuclopenthixol Decanoate	200mg in 1ml; 500mg in 1ml injection		Suitable for continuation by primary care	
4.2.3 Antimanic drugs				
Carbamazepine	100mg, 200mg & 400mg tablet; 200mg & 400mg CR tablet; 200mg chewable tablet; 100mg in 5ml oral liquid; 125mg & 250mg suppository		Suitable for continuation by primary care	
Valproic Acid (as the semi-sodium salt)	250mg & 500mg tablet		Suitable for continuation by primary care	
Valproate	100mg crushable tablet; 200mg & 500mg e.c. tablet; 200mg, 300mg & 500mg CR tablet; 200mg in 5ml oral liquid; 100mg & 300mg suppository; 4mg injection		Suitable for continuation by primary care	
Lithium Carbonate	200mg & 400mg MR tablets (Priadel®)		Suitable for continuation by primary care	
Lithium Citrate	1018mg in 5ml syrup	1018mg lithium citrate is equivalent to 400mg lithium carbonate	Suitable for continuation by primary care	

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Medicines Formulary

4.3 Antidepressant Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.3.1 Tricyclic Anti-depressants				
Amitriptyline	10mg, 25mg & 50mg tablet; 50mg in 5ml oral solution		Suitable for initiation and continuation by primary care	
Clomipramine	10mg, 25mg & 50mg capsule;		Suitable for initiation and continuation by primary care	
Imipramine	10mg & 25mg tablet; 25mg/5ml liquid	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for initiation and continuation by primary care	
Lofepramine	70mg tablet; 70mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Nortriptyline	10mg & 25mg Tablets	Restricted: Initiation by Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
4.3.2 Monoamine-oxidase inhibitors (MAOIs)				
Phenelzine	15mg tablet		Suitable for initiation and continuation by primary care	
Tranlycypromine	10mg tablet		Suitable for initiation and continuation by primary care	
Isocarboxazid	10mg Tablets	Restricted: Initiation by Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Moclobemide	150mg Tablets	Restricted: Initiation by Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
4.3.3. Selective serotonin reuptake inhibitors				
Citalopram	10mg & 20mg tablets; 40mg in 1ml oral drops	8 drops (16mg) is equivalent in therapeutic effect to a 20mg tablet	Suitable for initiation and continuation by primary care	
Escitalopram	5mg, 10mg, 20mg Tablets & 20mg/ml Oral Drops	Restricted: Initiation by Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Fluoxetine	20mg capsules; 20mg in 5ml liquid; 20mg Dispersible Tablets	Restricted Use: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for initiation and continuation by primary care	
Paroxetine	20mg & 30mg tablets; 10mg in 5ml liquid		Suitable for initiation and continuation by primary care	
Sertraline	50mg & 100mg tablets		Suitable for initiation and continuation by primary care	
4.3.4 Other antidepressant drugs				
Duloxetine	30mg & 60mg capsules		Suitable for initiation and continuation by primary care	
Mirtazapine	30mg tablet; 15mg, 30mg & 45mg oro- dispersible tablets	Refer to BNF for CSM advice	Suitable for initiation and continuation by primary care	
Trazodone	50mg & 100mg Capsules, 50mg/5ml Liquid	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Venlafaxine	37.5mg & 75mg tablets; 75mg & 150mg MR capsules	Refer to BNF for CSM advice	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Vortioxetine	5mg, 10mg & 20mg Tablets	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
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Medicines Formulary

4.4 CNS Stimulants and Drugs Used for Attention Deficit Hyperactivity Disorder

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Atomoxetine	10mg, 18mg, 25mg, 40mg, 60mg & 80mg capsules	Paediatric Psychiatry team	Suitable for continuation by primary care	
Clonidine	25microgram tablet		Hospital only	
Dexamfetamine	5mg tablet	Controlled Drug Paediatric Psychiatry team Management of attention deficit hyperactivity disorder NG87	Suitable for continuation by primary care	
Guanfacine	1mg, 2mg, 3mg and 4mg Prolonged-Release Tablets (Intuniv®)	Paediatric Psychiatry team Management of attention deficit hyperactivity disorder NG87	Suitable for continuation by primary care	
Lisdexamfetamine	30mg, 50mg & 70mg Capsules	Controlled Drug Paediatric Psychiatry team Management of attention deficit hyperactivity disorder NG87	Suitable for continuation by primary care	
Methylphenidate	5mg & 10mg tablet; 18mg, 27mg, 36mg & 54mg Modified release tablets (Xenidate® XL)	Controlled Drug Paediatric Psychiatry team Management of attention deficit hyperactivity disorder NG87	Suitable for continuation by primary care	
Modafinil	100mg tablet		Hospital only	

St George's University Hospitals NHS Foundation Trust Medicines Formulary

4.5 Anti Obesity Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Orlistat	120mg capsule	1 st line medicine for obesity. Use in accordance with NICE guidance for obesity (NICE clinical guideline 43)	Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

4.6 Drugs Used in Nausea and Vertigo

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Antihistamines				
Cinnarizine	15mg tablet		Suitable for initiation and continuation by primary care	
Cyclizine	50mg tablet; 50mg in 1 ml injection		Suitable for initiation and continuation by primary care	
Promethazine hydrochloride	10mg & 25mg tablet; 5mg in 5ml elixir; 25mg in 1 ml injection		Suitable for initiation and continuation by primary care	
Phenothiazines				
Chlorpromazine	10mg, 25mg 50mg & 100mg tablet, 100mg in 5ml suspension; 25mg in 5ml syrup; 50mg in 2ml injection		Suitable for initiation and continuation by primary care	
Droperidol	10mg tablet; 1mg in 1ml liquid; 10mg in 2ml injection		Suitable for initiation and continuation by primary care	
Prochlorperazine	5mg tablet; 5mg in 5ml liquid; 3mg buccal tablet; 12.5mg in 1ml injection		Suitable for initiation and continuation by primary care	
Trifluoperazine	1mg & 5mg tablet; 5mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Domperidone & Metoclopramide				
Domperidone	10mg & 20mg tablet; 5mg in 5ml suspension; 30mg suppository		Suitable for initiation and continuation by primary care	
Metoclopramide	10mg tablet; 5mg in 5ml oral solution; 10mg in 2ml injection		Suitable for initiation and continuation by primary care	
5HT₃ Antagonists				
Ondansetron	4mg & 8mg tablet; 4mg orodispersible tablet; 4mg in 5ml liquid; 4mg in 2ml injection; 8mg in 4ml injection		Hospital only	

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Medicines Formulary

Neurokinin Receptor Antagonists				
Aprepitant	80mg & 125mg capsule	Restricted use Restricted for: 1. Prevention of acute and delayed nausea and vomiting associated with highly emetogenic cisplatin-based cancer chemotherapy in adults 2. Prevention of nausea and vomiting associated with moderately emetogenic cancer chemotherapy where standard treatment has failed	Hospital only	
Hyoscine				
Hyoscine hydrobromide	300 microgram chewable tablet; 1.5mg (1mg in 72hr) patch; 400 microgram in 1ml injection; 600 microgram in 1ml injection		Suitable for initiation and continuation by primary care	
Glycopyrronium				
Glycopyrronium bromide	400microgram/ml (equilivant to 320microgram/ml glycopyrronium) Oral Solution	Restricted: Paediatrics	Suitable for continuation by primary care	
Pirenzepine				
Pirenzepine (Unlicensed)	50mg Tablets	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Drugs for Meniere's Disease				
Betahistine dihydrochloride	8mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

4.7 Analgesics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.7.1 Non-opioid analgesics				
Aspirin	75mg & 300mg dispersible; 75mg EC tablet; 150mg & 300mg suppository	Owing to an association with Reye's syndrome, aspirin-containing products should not be given to children under 16 years, unless specifically indicated e.g. for Kawasaki syndrome	Suitable for initiation and continuation by primary care	
Paracetamol	500mg tablet; 500mg soluble tablet; 120mg in 5ml suspension; 250mg in 5ml suspension Suppositories: 15mg, 30mg, 60mg 120mg, 125mg, 240mg 500mg		Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Paracetamol injection	500mg in 50ml; 1000mg in 100ml	Restricted use 1. May be initiated on recommendation by the Acute Pain Team for: a) short-term treatment of post-operative pain in adults who cannot tolerate oral route as an alternative to rectal administration, or b) as an opioid-sparing agent in patients receiving high dose opioid infusions 2. Prescribed by Anaesthetists in theatre for single intra-operative use to make patient more comfortable in recovery in addition to usual analgesic measures. 3. Prescribed by Neuro-intensivists for reduction of post-operative pain in neurosurgical patients where opiate use is undesirable.		
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Compound analgesic preparations

Co-codamol (codeine + paracetamol)	Codeine + paracetamol: 30/500mg tablet; 30/500mg soluble tablet	Soluble tablets restricted to ENT, Plastics, and Palliative Care	Suitable for initiation and continuation by primary care	
Co-dydramol (dihydrocodeine + paracetamol)	Dihydrocodeine/paracetamol : 10/500mg tablet		Suitable for initiation and continuation by primary care	

4.7.2 Opioid analgesics

Alfentanil	1mg in 2ml & 5mg in 10ml injection; 5mg in 1ml Intensive Care injection	Controlled Drug Use under specialist supervision only	Hospital only	
Buprenorphinesublingual tablets & injection	200microgram, 400microgram, 2mg & 8mg sublingual tablet; 0.3mg in 1ml injection	Controlled Drug	Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Buprenorphine patch	BuTrans® - release for 7 days: 5microgram/hour, 10microgram/hour, 20microgram/hour transdermal patch Transtec® - release for 96 hours: 35microgram/hour, 52.5microgram/hour & 70microgram/hour transdermal patch	Controlled Drug For initiation by the Pain Teams only Prescribe by brand	Suitable for initiation and continuation by primary care	
Codeine phosphate tablets & syrup	15mg, 30mg & 60mg tablets; 25mg in 5ml oral solution		Suitable for initiation and continuation by primary care	
Codeine phosphate injection	30mg & 60mg injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Diamorphine hydrochloride	10mg, 30mg, 100mg & 500mg injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Dihydrocodeine tartrate	30mg tablet		Suitable for initiation and continuation by primary care	
Dihydrocodeine tartrate injection	50mg in 1mL injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Fentanyl	72-hour transdermal patch: 12micrograms/hour, 25micrograms/hour, 50micrograms/hour, 75micrograms/hour & 100micrograms/hour Injection: 100micrograms in 2ml & 500micrograms in 10ml	Controlled Drug Use under specialist supervision only Prescribe by brand	Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Fentanyl (as citrate) sublingual tablets	100micrograms, 200 micrograms, 300 micrograms, 400 micrograms, 600 micrograms, 800 micrograms sublingual tablets	Controlled Drug Restricted use: For use in the treatment of breakthrough pain for oncology/ palliative care patients on strong opioids For prescription by palliative medicine, oncology, acute and chronic pain service only	Suitable for continuation by primary care	
Methadone hydrochloride	5mg tablet; 10mg in 1mL injection	Controlled Drug Specialist Use Only – drug dependency specialists	Suitable for continuation by primary care	
Morphine salts	10mg in 5ml & 100mg in 5ml oral solution; 10mg, 30mg & 50mg tablets; 5mg, 10mg, 30mg, 60mg, 100mg & 200mg MR tablets; 10mg in 1ml, 15mg in 1ml, 30mg in 1ml, 60mg in 2ml injection; 50mg in 50ml syringe	Controlled Drug	Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Oxycodone hydrochloride	5mg, 10mg & 20mg capsules; 5mg in 5ml oral solution; 10mg in 1ml concentrated oral solution; 5mg, 10mg, 20mg, 40mg & 80mg MR tablet; 10mg in 1ml, 20mg in 2ml, 50mg in 1ml injection	Controlled Drug Restricted Use: For initiation by the Pain Teams only for patients with pain unresponsive to morphine. For initiation by Haematology for analgesia in sickle cell patients intolerant to morphine.	Suitable for continuation by primary care	
	50mg in 50ml	Inpatient pain consultant and/or consultant anaesthetist/Intensivist after liaising with inpatient pain team	Hospital Only	
Pethidine hydrochloride	50mg tablet; 50mg in 1ml & 100mg in 2ml injection	Controlled Drug	Suitable for continuation by primary care	

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Medicines Formulary

Tapentadol	50mg & 100mg Modified Release Tablet	<p>Controlled Drug</p> <p>Restricted to: Pain team only</p> <p>In adults with severe chronic pain and moderate to severe acute pain in whom:</p> <p>1) Conventional opioids have failed to provide adequate pain control and/or are not tolerated; and/or</p> <p>2) A neuropathic pain component cannot be excluded (subject to the <i>Place in Therapy</i> limitations; see below)</p> <p>Place in Therapy:</p> <p>1) in pain <i>with</i> a neuropathic component: Under specialist direction from the pain services, where conventional anti-neuropathic pain agents AND conventional strong opioids (morphine or oxycodone) have failed to provide adequate pain relief or are not tolerated</p> <p>2) In pain <i>without</i> a neuropathic component: under specialist direction from the pain services, where conventional strong opioids (morphine or oxycodone) have failed to provide adequate pain relief or are not tolerated.</p>	<p>Initiation - Hospital Only</p> <p>Suitable for continuation by primary care</p> <p>Following the initial 3 month period and when the patient is on a stable dose of Tapentadol, prescribing responsibility may be considered for transfer to the patient's own GP.</p>	
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Tramadol hydrochloride	50mg capsule; 100mg MR tablet		Suitable for initiation and continuation by primary care	
4.7.3 Neuropathic and functional pain				
Amitriptyline hydrochloride	10mg, 25mg & 50mg tablet; 50mg in 5mL syrup	Neuropathic pain: 10 – 25mg at night. May be increased gradually to 75 mg	Suitable for initiation and continuation by primary care	
Capsaicin	8% Patch	Restricted: Chronic Pain Group only	Hospital Only	
Carbamazepine	100mg, 200mg & 400mg tablets; 200mg chewable tablets; 200mg & 400mg CR tablets; 100mg in 5mL liquid; 125mg & 250mg suppositories	Neuropathic pain: 100mg twice daily, increased gradually to a maximum of 200mg three times a day	Suitable for initiation and continuation by primary care	
Gabapentin	100mg, 300mg & 400mg capsules	Use on specialist advice	Suitable for continuation by primary care	
Lidocaine	5% (700mg) Medicated Plaster	Restricted use Post-herpetic neuralgia for specialist use only by Pain Teams	Suitable for continuation by primary care	
Pregabalin	25mg, 50mg, 75mg, 100mg, 150mg, 200mg, 225mg & 300mg capsules	Use on specialist advice 2 nd line treatment in patients unable to tolerate gabapentin due to side effects	Suitable for continuation by primary care	
4.7.4 Anti-migraine drugs				
4.7.4.1 Treatment of the acute migraine attack				
Imigran® containing: Sumatriptan	10mg and 20mg nasal spray	Restricted: Neurology	Suitable for initiation and continuation by primary care	
Rizatriptan	5mg tablet		Suitable for initiation and continuation by primary care	
Sumatriptan	6mg in 0.5ml injection		Suitable for initiation and continuation by primary care	
Zolmitriptan	2.5mg tablet		Suitable for initiation and continuation by primary care	
4.7.4.2 Prophylaxis of migraine				
Clonidine	25microgram tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Pizotifen	500microgram & 1.5mg tablets; 250microgram in 5mL elixir		Suitable for initiation and continuation by primary care	
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Medicines Formulary

Miscellaneous				
Ketamine (oral)	50mg in 5ml Solution Controlled Drug	<p>Restricted: Approved as an adjuvant in the multimodal management of acute pain for 72 hours post-operatively where tolerance or hyper-algesia prevents adequate pain relief with:</p> <ul style="list-style-type: none"> a) Conventional analgesic strategies b) In patients with acute neuropathic pain in the context of major surgery or trauma <p>In patients who are on long term opioids e.g. for chronic pain or for non-medical uses (e.g. IV drug users) where chronic opioid tolerance leads to inadequate pain control</p> <p>To be initiated and prescribed by an Acute Pain Consultant for patients as described above.</p> <p>Its use is to be reviewed daily by the Acute Pain Team under the supervision of a Consultant.</p> <p>ONLY the ready-made oral solution can be prescribed for oral use. The IV injection must not be used orally.</p>	Hospital Only	

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Medicines Formulary

Ketamine (intravenous)	10mg/mL 50mg/mL Controlled Drug	Induction and maintenance of anaesthesia. Restricted: For addition to morphine PCA (unlicensed) and restricted to acute pain team use only for: i) Post-operative opioid tolerant patients (due to prolonged use of high dose opioids) ii) Severe post-operative pain or neuropathic pain at rest or movement requiring high dose opioids iii) Acute on chronic severe pain unresponsive to opioids Acute Pain team will review daily.	Hospital Only	
Methoxyflurane	3 mL inhalation vapour	For the treatment of moderate to severe pain in conscious adults with minor to moderate trauma Restricted: For prescribing by consultants or registrars working in the Emergency Department	Hospital Only	

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Medicines Formulary

4.8 Antiepileptic Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.8.1 Control of epilepsy				
Brivaracetam	10, 25, 50, 75 and 100mg tablets; 10 mg/ml oral solution; 10mg/ml injection.	To be used as adjunctive therapy in the treatment of partial onset seizures with or without secondary generalisation in patients aged 16 and over with focal epilepsy Restricted Use: For initiation, and prescription by Adult Epilepsy Group Consultant Neurologists only	Suitable for initiation and continuation by primary care on the advice of Adult Epilepsy Consultant Neurologists only	
Cannabidiol (Epidyolex)	100mg/ml	Restricted: Paediatric Neurology Consultants only For use in children >2 years old with Lennox-Gastaut or Dravet Syndrome in combination with Clobazam if drop seizures are not controlled after using 2 or more antiepileptics..	Hospital Only	
Carbamazepine	100mg, 200mg, & 400mg tablet; 200mg & 400mg CR tablet; 100mg in 5ml liquid; 125mg & 250mg suppository		Suitable for initiation and continuation by primary care	
Clobazam	10mg tablet, 10mg/5ml suspension		Suitable for initiation and continuation by primary care	
Clonazepam	500 microgram & 2mg tablet; 1mg in 1ml injection		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Eslicarbazepine	800mg tablets	Restricted Use: Restricted to patients who have already tried oxcarbazepine and/or carbamazepine	Suitable for initiation and continuation by primary care	
Ethosuximide	250 mg capsule; 250mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Gabapentin	100mg, 300mg & 400mg capsule		Suitable for initiation and continuation by primary care	
Lacosamide	50mg, 100mg, 150mg & 200mg tablet; 10mg in 1ml intravenous infusion	Restricted to Neurology	Suitable for continuation by primary care	
Lamotrigine	25mg, 50mg, 100mg, & 200mg tablet; 5mg, 25mg, & 100mg dispersible tablet		Suitable for initiation and continuation by primary care	
Levetiracetam	250mg, 500mg, & 1000mg tablet; 100mg in 1ml liquid; 500mg in 5ml intravenous infusion 500mg granules	Restricted to paediatric patients with epilepsy and developmental difficulties	Suitable for initiation and continuation by primary care	
Nitrazepam	5mg tablet; 2.5mg in 5mL suspension		Suitable for initiation and continuation by primary care	
Oxcarbazepine	150mg & 300mg tablet; 300mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Perampanel	2mg, 4mg, 6mg, 8mg, 10mg, 12mg tablets	Restricted Use: For the treatment of adjunctive treatment for partial seizures with or without secondary generalisation in patients over 12 years of age For prescription by Adult Epilepsy Group Consultant Neurologists and Consultant Paediatric Neurologists	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Phenobarbital	15mg & 30mg tablet; 15mg in 5ml elixir; 15mg in 1ml, 30mg in 1ml, 60mg in 1ml, & 200mg in 1ml injection	Controlled Drug Note – Elixir contains alcohol 38%	Suitable for initiation and continuation by primary care	
Phenytoin	25mg, 50mg, 100mg, & 300mg capsule; 50mg chewable tablet; 30mg in 5ml suspension; 250mg in 5ml injection		Suitable for initiation and continuation by primary care	
Pregabalin	25mg, 50mg, 75mg, 100mg, 150mg, 200mg, 225mg, & 300mg capsule	Restricted use: 1. Treatment of epilepsy as an adjunctive therapy for adults with partial seizures with or without secondary generalisation 2. Specialist use only by the Pain Team for neuropathic pain	Suitable for initiation and continuation by primary care	
Primidone	250mg tablet		Suitable for initiation and continuation by primary care	
Rufinamide	100mg, 200mg, 400mg film coated tablets; 40mg/mL oral suspension	Adjunctive treatment of seizures in Lennox-Gastaut syndrome in patients 4 years and above (tonic drop attacks, in particular)	Paediatrics: Initiated by hospital on advice of consultant Paediatric Neurologists Adults: Can be initiated in hospital or primary care on the advice of Adult Epilepsy Group Consultant Neurologists Continuation for paediatrics and adults by primary care	

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Medicines Formulary

Sodium Valproate	200mg & 500mg EC tablet; 200mg, 300mg, & 500mg CR tablet; 100mg crushable tablet; 200mg in 5ml (sugar free) liquid; 300mg in 3ml injection; 500mg granules	Restricted to paediatric patients with epilepsy and developmental difficulties	Suitable for initiation and continuation by primary care	
Topiramate	25mg & 100mg tablet; 25mg sprinkle-form capsule;		Suitable for initiation and continuation by primary care	
Vigabatrin	500mg tablet; 500mg powder		Suitable for initiation and continuation by primary care	
Zonisamide	25mg, 50mg & 100mg capsule	Restricted to Neurology	Suitable for continuation by primary care	
4.8.2 Drugs used in status epilepticus				
Clonazepam	1mg in 1ml injection		Suitable for initiation and continuation by primary care	
Diazepam	2.5mg, 5mg, & 10mg rectal solution; 10mg in 2ml injection; 10mg in 2ml emulsion injection (Diazemuls®)	The preferred parenteral formulation is the emulsion (Diazemuls®)	Suitable for initiation and continuation by primary care	
Levetiracetam	250mg, 500mg, & 1000mg tablet; 100mg in 1ml liquid; 500mg in 5ml intravenous infusion		Suitable for initiation and continuation by primary care	
Lorazepam	4mg in 1ml injection		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Midazolam	10mg in 1mL buccal liquid [unlicensed]; 2.5mg/0.5ml, 7.5mg/1.5ml, 10mg/2ml oromucosal solution pre-filled oral syringe (Buccolam®); 2mg in 2ml, 10mg in 2ml & 50mg in 10ml injection;	Midazolam buccal liquid 10mg/ml [unlicensed]: Alternative to rectal diazepam for the initial management of status epilepticus in the home setting or where intravenous access is not possible Midazolam oromucosal solution 10mg/2ml (Buccolam®) licensed for use in paediatrics Midazolam oromucosal solution - Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Paraldehyde	50% w/v rectal solution		Suitable for initiation and continuation by primary care	
Phenobarbital	15mg in 1ml, 30mg in 1ml, 60mg in 1ml, & 200mg in 1ml injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Phenytoin	250mg in 5ml injection		Suitable for initiation and continuation by primary care	
Sodium Valproate	200mg & 500mg EC tablet; 200mg, 300mg, & 500mg CR tablet; 100mg crushable tablet; 200mg in 5ml (sugar free) liquid; 300mg in 3ml injection		Suitable for initiation and continuation by primary care	
4.8.2 Febrile convulsions				
Diazepam	2.5mg, 5mg, & 10mg rectal solution; 10mg in 2ml injection; 10mg in 2ml emulsion injection (Diazemuls®)	The preferred parenteral formulation is the emulsion (Diazemuls®)	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Paracetamol	500mg tablet; 500mg soluble tablet; 120mg in 5ml suspension (sugar- free); 250mg in 5ml suspension (sugar- free); 15mg, 30mg, 60mg, 120mg, 125mg, 240mg, 500mg&1,000mgsu ppository; 500mg in 50ml & 1,000mg in 100ml injection	Paracetamol used to reduce fever and prevent further convulsions	Suitable for initiation and continuation by primary care	
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Medicines Formulary

4.9 Drugs used in parkinsonism and related disorders

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.9.1 Dopaminergic drugs used in Parkinson's disease				
Amantadine	100mg capsule; 50mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Apomorphine hydrochloride	50mg in 5ml & 50mg in 10ml injection		Hospital only	
Bromocriptine	2.5mg tablet		Suitable for initiation and continuation by primary care	
Cabergoline	500microgram, 1mg, & 2mg tablets		Suitable for initiation and continuation by primary care	
Co-Beneldopa	12.5/50mg, 25/100mg dispersible tablet; 12.5/50mg, 25/100mg, & 50/200mg capsule; 25/100 SR capsule	A mixture of benserazide hydrochloride and levodopa in mass proportions corresponding to 1 part of benserazide and 4 parts of levodopa	Suitable for initiation and continuation by primary care	
Co-Careldopa	12.5/50mg, 10/100mg, 25/100mg & 25/250mg tablets; 25/100mg & 50/200mg SR tablets	A mixture of carbidopa and levodopa; the proportions are expressed in the form x/y where x and y are the strengths in milligrams of carbidopa and levodopa respectively	Suitable for initiation and continuation by primary care	
Entacapone	200mg tablet		Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Opicapone	50 mg capsules	<p>Restricted to: For prescription by the Atkinson Morley Movement Disorders Group and Senior Health Consultants.</p> <p>As adjunctive therapy to preparations of levodopa/ DOPA decarboxylase inhibitors (DDCI) in adult patients with Parkinson's Disease and end-of-dose motor fluctuations who cannot be stabilised on those combinations. For use as second line in people unable to tolerate entacapone</p>	Suitable for continuation by primary care	
Pergolide	250microgram & 1mg tablets		Suitable for initiation and continuation by primary care	
Rasagiline	1mg tablet	For use in Parkinson's patients requiring MOAB inhibitor who have particular cognitive impairment or behavioural disturbance in whom amphetamine-like metabolites could potentially cause deterioration. Otherwise selegiline must be used	Suitable for continuation by primary care	
Ropinirole	250microgram, 500microgram, 1mg, & 5mg tablets; 2mg XL and 8mg XL tablet	Ropinirole XL For use in Parkinson's patients second line to ropinirole TDS according to local protocol	Suitable for initiation and continuation by primary care	
Rotigotine	2mg, 4mg, 6mg and 8mg patches	Restricted to patients in hospital who are Nil By Mouth or Parkinson's patients with dysphagia	Suitable for continuation by primary care	

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Medicines Formulary

Safinamide	50mg and 100mg Film coated tablets	For the treatment of adult patients with idiopathic Parkinson's disease (PD) as add-on therapy to a stable dose of Levodopa (L-dopa) alone or in combination with other PD medicinal products in mid-to late-stage fluctuating patients in accordance with the St George's Parkinson's disease treatment pathway Restricted: to clinicians in the movement disorders clinic and Senior Health Consultants.	Suitable for continuation by primary care	
Selegiline	5mg tablet		Suitable for initiation and continuation by primary care	
Tolcapone	100mg tablet	Restricted to Prescribing ONLY by Consultant Neurologists within the Movement Disorders group and Senior Health Consultants when entacapone therapy or other pharmacological options (dopamine agonists, MAO-B inhibitors, amantadine) have failed to control end of dose fluctuations. The prescribing physician will be responsible for monitoring of LFTs.	Suitable for continuation by primary care	
4.9.2 Antimuscarinic drugs used in parkinsonism				
Orphenadrine hydrochloride	50mg tablet; 50mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Procyclidine hydrochloride	5mg tablet; 5mg in 5ml (Sugar Free) syrup; 10mg in 2ml injection		Suitable for initiation and continuation by primary care	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Trihexyphenidyl hydrochloride	2mg & 5mg tablet; 5mg in 5ml syrup		Suitable for initiation and continuation by primary care	
4.9.3 Drugs used in essential tremor, chorea, tics, and related disorders				
Haloperidol	1.5mg, 5mg, & 10mg tablet; 500microgram capsule; 1mg in 1ml & 2mg in 1ml liquid; 5mg in 1ml injection	Intravenous route restricted to critical care areas – cardiac monitoring required	Suitable for initiation and continuation by primary care	
Haloperidol Decanoate	100mg in 1ml (oily) injection	For IM injection	Suitable for initiation and continuation by primary care	
Riluzole	50mg tablet	High Cost Medicine – PbR excluded	Suitable for continuation by primary care	
Tetrabenazine	25mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Miscellaneous				
Botulinum Toxin Type A	100unit injection (Xeomin); 500unit injection (Dysport)	Restricted use Dysport restricted to: 1. Urology: neurogenic and idiopathic detrusor overactivity resistant to a non operative management and cholinergics where quality of life is impaired 2. Ophthalmology blepharospasm, hemifacial spasm, protective ptosis and squint. 3. Anal Fissures: 3 rd line treatment of anal fissures where GTN 0.4% ointment and Diltiazem 2% cream have failed to result in healing 4. Neurology: spasticity, dystonias and hyperhidrosis Xeomin restricted to: Neurology – for treatment of blepharospasm and dystonias in patients at risk of BoNT-A (botulinum neurotoxin A) failure	Hospital only	

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Medicines Formulary

Botulinum Toxin Type A	200 unit injection (Botox®) Restricted: 100 unit injection (Botox®) for urogynaecology/ female urology use only	<p>Restricted use</p> <p>Botox restricted to:</p> <p>Neurology: Chronic migraine - defined as headache on at least 15 days per month with at least 8 days per month of migraine.</p> <p>Botulinum toxin treatment will be considered and discussed in patients in whom any concomitant analgesic overuse has been managed appropriately and in whom 3 prior prophylactic therapies have failed</p> <p>NICE TA 260 (June 2012)</p> <p>Urogynaecology: The management of bladder dysfunction or Over-Active Bladder (OAB) syndrome in adult patients (female) who are; (1) not adequately managed with anti-cholinergics due to poor efficacy and or significant side effects; (2) patients in whom the use of anticholinergic(s) is contra-indicated and or (3) failure to respond (or contra-indication to) Mirabegron a beta 3 adreno-receptor agonist that reduces bladder contractility.</p>	Hospital only	
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Medicines Formulary

Botulinum Toxin Type B	10,000units in 2ml injection (Neurobloc)	Restricted use Restricted to use by Maxillofacial unit for treatment of patients with sialorrhea in adults and paediatrics	Hospital only	
Phenol in Aqueous	Phenol 5% in aqueous (unlicensed) injection	Spasticity Clinic and Senior Health Consultants Only	Hospital Only	
Phenol Intrathecal	Phenol 5% in glycerol intrathecal injection	Spasticity Clinic and Senior Health Consultants Only	Hospital Only	

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Medicines Formulary

4.10 Drugs used in Substance Dependence

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.10.2 Nicotine dependence				
Nicotine	2mg lozenge; 10mg, 15mg, & 25mg patch; 15mg/cartridge, inhalator; 2mg microtab; 1mg/metered dose, oral spray	Restricted: The following preparations are restricted to the direction of level 2 and 3 smoking cessation advisors in the Trust: <ul style="list-style-type: none"> 15mg/cartridge, inhalator 2mg microtab 1mg/metered dose, oral spray 	Suitable for initiation and continuation by primary care	
4.10.3 Opioid dependence				
Buprenorphine	200microgram, 400microgram, 2mg & 8mg sublingual tablet; 5microgram per hour, 10microgram per hour, 20microgram per hour, 52.5microgram per hour & 70microgram per hour patch	Controlled Drug	Suitable for initiation and continuation by primary care	
Methadone hydrochloride	1mg in 1ml (sugar free, brown colour) mixture; 1mg in 1ml (DTF) mixture; 10mg in 1ml injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Lofexidine	200micrograms tablet	Restricted: Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for initiation and continuation by primary care	
Naltrexone hydrochloride	50mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

4.11 Drugs for Dementia

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
4.11 Drugs for dementia				
Donepezil hydrochloride	5mg & 10mg tablets; 5mg & 10mg orodispersible tablets	Restricted use Restricted to use by neurologists for the treatment of moderate Alzheimers disease & Senior Health Consultants & Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust	Suitable for continuation by primary care	
Galantamine	4mg, 8mg & 12mg tablets; 8mg, 16mg & 24mg MR capsules; 4mg in 1ml oral solution	Restricted use Restricted to use by neurologists for the treatment of moderate Alzheimers disease & Senior Health Consultants	Suitable for continuation by primary care	
Memantine	10mg & 20mg tablet; Treatment initiation pack (7 x 5mg, 7 x 10mg, 7 x 15mg and 7 x 20mg tablets per pack); 5 mg/actuation (10 mg/ml) Oral Solution	Restricted use Restricted to use by neurologists for the treatment of moderate Alzheimers disease & Senior Health Consultants	Suitable for continuation by primary care	

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Medicines Formulary

Rivastigmine	1.5mg, 3mg, 4.5mg & 6mg capsules; 2mg in 1ml oral solution; 4.6mg over 24hours, 9.5mg over 24hours &	Restricted use Restricted to use by neurologists for the treatment of moderate Alzheimers disease and dementia in Parkinson's disease & Senior Health Consultants	Suitable for continuation by primary care	
	13.3mg patch over 24 hours	Restricted use Psychiatry Consultants: South West London and St George's Mental Health (SWLMHT) NHS Trust		

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Medicines Formulary

Chapter 5: Infections

5.1 Antibacterial Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
5.1.1 Penicillins				
Amoxicillin	250mg capsule, 500mg capsule; 125mg in 5ml suspension (sugar free), 250mg in 5ml suspension (sugar free); 3g powder; 500mg injection		Suitable for initiation and continuation by primary care Injection = Hospital only	
Benzylpenicillin sodium (Penicillin G)	600mg (1 mega unit) injection		Hospital only	
Co-Amoxiclav (amoxicillin + clavulanic acid)	375mg tablet; 375mg dispersible tablet; 250/62.5mg in 5ml suspension (sugar free), 400/57mg in 5ml suspension; 600mg and 1.2g injection	Monitor LFTs at least weekly in prolonged (>2 weeks) use	Suitable for initiation and continuation by primary care Injection = Hospital only	
Flucloxacillin	250mg tablet; 500mg capsule; 125mg in 5ml suspension, 250mg in 5ml suspension; 250mg injection, 500mg injection, 1g injection		Suitable for initiation and continuation by primary care Injection = Hospital only	
Phenoxymethylpenicillin (Pencillin V)	250mg tablet; 125mg in 5ml oral solution; 250mg in 5ml oral solution		Suitable for initiation and continuation by primary care	
Piperacillin with Tazobactam	2.25g injection, 4.5g injection	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
Pivmecillinam	200mg tablet	UTI caused by organisms resistant to 1st line treatment options (nitrofurantoin, co-amoxiclav), but susceptible to pivmecillinam or in patients where 1st line treatment options are contra-indicated.	Hospital Only	

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Medicines Formulary

Temocillin	1g injection	Restricted: requires Microbiology approval For the treatment of confirmed ESBL or AmpC related infections with confirmed microbiological sensitivities	Hospital only	
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Medicines Formulary

5.1.2 Cephalosporins, carbapenems, and other beta-lactams				
Aztreonam	1g and 2g injections	Complete restriction: for initiation by Microbiology only	Hospital only	
Cefaclor	250mg capsule; 125mg in 5ml suspension, 250mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Cefalexin	250mg capsule, 500mg capsule; 250mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Cefixime	200mg tablet	Restricted: GUM only	Suitable for initiation and continuation by primary care	
Cefotaxime	500mg injection, 1g injection, 2g injection	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
Ceftazidime	250mg injection, 500mg injection, 1g injection, 2g injection	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
Ceftazidime-Avibactam	2g-0.5g Infusion	Restricted: requires Microbiology approval	Hospital Only	
Ceftolozane / Tazobactam	1.5gram (Ceftolozane 1gram and Tazobactam 0.5gram)	Restricted: requires Microbiology approval	Hospital only	
Ceftriaxone	250mg injection, 1g injection, 2g injection	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
Cefuroxime	750mg and 1.5g injections	Restricted: requires Microbiology approval OR as per Dual Approval policy. For surgical prophylaxis only	Hospital only	
Ertapenem	1g injection	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
Meropenem	500mg and 1g injections	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
5.1.3 Tetracyclines				
Doxycycline	50mg & 100mg capsules; 100mg dispersible tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Lymecycline	408mg capsule		Suitable for initiation and continuation by primary care	
Minocycline	50mg and 100mg tablets; 100mg capsules, controlled release		Suitable for initiation and continuation by primary care	
Oxytetracycline	250mg tablet		Suitable for initiation and continuation by primary care	
Tigecycline	50mg intravenous infusion	Only on advice from Microbiologists or Clinical Infection Unit Doctors for the treatment of abdominal sepsis in adult patients with penicillin anaphylaxis	Hospital Only	

5.1.4 Aminoglycosides

Amikacin	100mg and 500mg injection	Restricted: requires Microbiology approval OR as per Dual Approval policy	Hospital only	
Gentamicin	20mg injection, 80mg injection; 5mg in 1ml intrathecal injection	Nebulised gentamicin may be initiated by Chest Medicine Consultants and Specialist Trainees only	Hospital only	
Neomycin	500mg tablet		Suitable for initiation and continuation by primary care	

5.1.5 Macrolides

Azithromycin	250mg tablet; 250mg capsule; 200mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Clarithromycin	250mg tablet, 500mg tablet; 125mg in 5ml suspension; 500mg injection	Preferred macrolide is clarithromycin (except in pregnancy) due to lower incidence of GI side effects	Suitable for initiation and continuation by primary care Injection = Hospital only	

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Medicines Formulary

Erythromycin	250mg tablet (base), 500mg tablet (stearate); 125mg in 5ml suspension (sugar free); 250mg in 5ml suspension (sugar free); 1g injection		Suitable for initiation and continuation by primary care Injection = Hospital only	
5.1.6 Cindamycin				
Clindamycin	150mg capsule; 75mg in 5ml suspension; 600mg injection	High risk of C. diff – use with care	Suitable for initiation and continuation by primary care Injection = Hospital only	
5.1.7 Some other antibacterials				
Chloramphenicol	250mg capsule; 1g injection	Complete restriction: for initiation by Microbiology only	Suitable for initiation and continuation by primary care Injection = Hospital only	
Colistin	1 megaunit injection	Complete restriction: for initiation by Microbiology only. Nebulised colistin may be initiated by the Respiratory team	Hospital only	
Daptomycin	350mg injection	Complete restriction: for initiation by Microbiology only	Hospital only	
Fidaxomicin	200mg tablet	Complete restriction: for initiation by Microbiology only	Hospital only	

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Medicines Formulary

5.1.8 Sulphonamides and trimethoprim

Co-trimoxazole (trimethoprim + sulphamethoxazole)	480mg tablet, 960mg tablet; 240mg in 5ml suspension (sugar free), 480mg in 5ml suspension; 480mg infusion	Restricted: requires Microbiology approval OR as per Dual Approval policy	Suitable for initiation and continuation by primary care Injection = Hospital only	
Sulfadiazine	500mg tablet		Suitable for initiation and continuation by primary care	
Trimethoprim	100mg tablet, 200mg tablet; 50mg in 5ml suspension		Suitable for initiation and continuation by primary care	

5.1.9 Antituberculosis drugs

Bedaquiline Fumarate	100mg tablets	For multidrug- resistant tuberculosis (MDR- TB) and extensively drug-resistant tuberculosis XDR- TB, with documented evidence of resistance to fluoroquinolones and/or intolerance to second line drugs. Restricted: For prescription by clinical infection unit consultants only	Hospital only	
Delamanid	50 mg film-coated tablets	For multidrug- resistant tuberculosis (MDR- TB) and extensively drug-resistant tuberculosis XDR- TB, with documented evidence of resistance to fluoroquinolones and/or intolerance to second line drugs. Restricted: For prescription by clinical infection unit consultants only	Hospital only	
Capreomycin	1g injection [unlicensed]	Restricted: for initiation by Microbiology and CIU only	Hospital only	

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Medicines Formulary

Ethambutol hydrochloride	100mg tablet, 400mg tablet	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Isoniazid	100mg tablet; 50mg in 5ml suspension; 50mg in 2ml injection	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Pyrazinamide	500mg tablet [unlicensed]	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Rifabutin	150mg capsule	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Rifampicin	150mg capsule, 300mg capsule; 100mg in 5ml suspension; 600mg injection	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Rifampicin & Isoniazid (Rifinah™)	150mg/100mg tablet, 300mg/150mg tablet	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Rifampicin, Isoniazid & Pyrazinamide (Rifater™)	120mg/50mg/300mg tablet	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	
Streptomycin	1g injection [unlicensed]	Restricted: for initiation by Microbiology and CIU only	Hospital only	
Voractiv®	150mg rifampicin, 75mg isoniazid, 400mg pyrazinamide, 275mg ethambutol.	TB treatment must be initiated by CIU, Respiratory, or PID	Hospital only	

5.1.10 Antileprotic drugs

Dapsone	50mg & 100mg tablets		Hospital only	
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5.1.11 Metronidazole and tinidazole

Metronidazole	200mg & 400mg tablets; 200mg in 5ml suspension; 500mg in 100ml infusion; 500mg & 1g suppositories		Suitable for initiation and continuation by primary care Injection = Hospital only	
Tinidazole	500mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

5.1.12 Quinolones

Ciprofloxacin	250mg tablet, 500mg tablet, 750 mg tablet; 250mg in 5ml suspension; 200mg in 100ml infusion, 400mg in 200ml infusion	Restricted: requires Microbiology approval OR as per Dual Approval policy	Suitable for initiation and continuation by primary care Injection = Hospital only	
Levofloxacin	250 mg & 500 mg tablets, 500 mg in 100 ml infusion	Restricted Use: Only on the recommendation of Microbiology and Clinical Infection Unit Doctors for the treatment of confirmed Legionella Pneumonia		
Moxifloxacin	400mg tablet 400mg injection	For treatment of multi-drug resistant TB in conjunction with other anti-infectives Restricted: requires Microbiology approval OR as per Dual Approval policy Restricted: requires microbiology approval OR as per Dual Approval policy; temporary measure only for patients who are unable to tolerate Moxifloxacin tablets	Suitable for initiation and continuation by primary care	
Ofloxacin	200mg & 400mg tablets	Restricted: GUM only	Suitable for initiation and continuation by primary care	

5.1.13 Urinary-tract infections

Nitrofurantoin	50mg capsule; 100mg tablet; 25mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Fosfomycin	3g powder	Restricted: for initiation by Microbiology only	Hospital only	

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Medicines Formulary****5.1.14 Miscellaneous Antibacterials**

Fosfomycin	40mg/ml injection 3g sachet	Restricted: for initiation by Microbiology only for the treatment of infections with proven microbiological sensitivities	Hospital only	
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Medicines Formulary

5.2 Antifungal Drugs				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
5.2.1 Triazole antifungals				
Fluconazole	50mg, 150mg & 200mg capsules; 50mg in 5ml suspension, 200mg in 5ml suspension; 50mg in 25ml infusion, 200mg in 100ml infusion		Suitable for initiation and continuation by primary care Injection = Hospital only	
Itraconazole	100mg capsule; 10mg in 1ml solution (sugar free); 250mg in 25ml injection	Haematology patients should not receive capsules	Suitable for initiation and continuation by primary care Injection = Hospital only	
Posaconazole	200mg in 5ml suspension 100mg tablet	Restricted: refer to Adult Antifungal Protocol	Hospital only	
Voriconazole	50mg & 200mg tablets; 200mg injection	Restricted: refer to Adult Antifungal Protocol	Hospital only	
5.2.2 Imidazole antifungals				
5.2.3 Polyene antifungals				
Amphotericin (Fungizone™)	10mg lozenge; 50mg injection	Prescribe by BRAND	Suitable for initiation and continuation by primary care Injection = Hospital only	
Liposomal Amphotericin (AmBisome™)	50mg injection	Restricted: refer to Adult Antifungal Protocol Prescribe by BRAND	Hospital only	
5.2.4 Echinocandin antifungals				
Anidulafungin	100mg injection	Restricted: refer to Adult Antifungal Protocol	Hospital only	
Caspofungin	50mg & 70mg injections	Restricted: refer to Adult Antifungal Protocol	Hospital only	
Micafungin	50mg & 100mg injections	Restricted: refer to Adult Antifungal Protocol	Hospital only	

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5.2.5 Other antifungals

Flucytosine	500mg tablet [Unlicensed]; 10mg in 1ml infusion	Restricted: refer to Adult Antifungal Protocol and CIU Guidelines	Hospital only	
Griseofulvin	500mg tablet; 125mg in 5ml suspension		Suitable for initiation and continuation by primary care Injection = Hospital only	
Terbinafine	250mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

5.3 Antiviral Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
5.3.1 HIV infection				
Contact HIV specialists			Hospital only	
Biktarvy® containing: Bictegravir, emtricitabine and tenofovir alafenamide	50mg, 200mg and 25mg tablet	Restricted: Biktarvy® can only be prescribed on the expert guidance of a Clinical Infection Unit (CIU) or Genitourinary (GU) Consultant. The use of Biktarvy® must be approved by Antiretroviral (ARV) Multidisciplinary Team.	Hospital Only	
Cobicistat (Tybost®)	150mg film coated tablet	For use as a pharmacokinetic enhancer of atazanavir 300 mg once daily or darunavir 800 mg once daily as part of antiretroviral combination therapy in human immunodeficiency virus-1 (HIV-1) infected adults where patients are intolerant of ritonavir. Restricted: GUM & CIU only.	Hospital only	
Darunavir	400mg & 600mg & 800mg tablets 100mg/ml suspension	Co-administered with low dose ritonavir indicated in combination with other antiretroviral therapies (ART) for the treatment of HIV-1 infection in ART naïve adults. Restricted: GUM & CIU only	Hospital only	

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Medicines Formulary

Delstrigo® containing: Doravirine, Lamivudine and Tenofovir Disoproxil	100mg, 300mg and 245mg tablets	Restricted: Delstrigo® should be initiated by a physician experienced in the management of HIV infection, as per London Consortium Guideline Prescribing. Restricted to HIV/CIU Consultants/Registrars.	Hospital Only	
Descovy® containing: Emtricitabine / Tenofovir Alafenamide	200mg / 10mg tablets and 200mg / 25mg tablets	<p>For the treatment of of HIV-1 infection in adults, for the proposed indications by NHS England.</p> <p>Tenofovir alafenamide is specifically used for patients with definite contra-indications to tenofovir disoproxil fumarate such as confirmed osteoporosis or high risk of major fracture; or renal disease CKD stage G3, or G1/2 plus proteinuria stage A3 or nearing this threshold.</p> <p>Additionally, it can be prescribed for patients with relative contra - indications to TDF such as patients approaching threshold of osteoporosis and/or renal markers outlines above where abacavir is not suitable alternative</p> <p>Restricted: GUM & CIU only.</p>	Hospital only	

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Medicines Formulary

Dolutegravir	50mg tablets	Treatment of HIV-1 infection if unable to tolerate first-line therapy options, or if experiencing treatment failure or resistance. Restricted: GUM & CIU only	Hospital only	
Doravirine (Pifeltro)	100mg tablet	Restricted: Doravirine should be initiated by a physician experienced in the management of HIV infection, as per London Consortium Guideline Prescribing. Restricted to HIV/CIU Consultants/Registrars.	Hospital Only	
Etravirine	200mg tablets	Treatment of HIV-1 infection in combination with a boosted protease inhibitor and other antiretrovirals - experienced adult patients. Restricted: GUM & CIU only	Hospital only	
Eviplera [®] (emtricitabine, rilpivirine and tenofovir)	200mg/25mg/245mg tablet	For the treatment of patients with a VL<100,000 or in patients receiving Atripla but who are contraindicated for or unable to tolerate efavirenz	Hospital only	
Evotaz [®] (Atazanavir / cobicistat)	300mg/150mg tablet	For the treatment of human immunodeficiency virus-1 (HIV-1) infection in adults aged 18 years or older Restricted: GUM & CIU only.	Hospital only	

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Medicines Formulary

<p>Genvoya®</p> <p>(Elvitegravir, Cobicistat, <u>Tenofovir alafenamide</u>, Emtricitabine).</p>	<p>150/150/10/200mg tablet</p>	<p>For the treatment of of HIV-1 infection in adults, for the proposed indications by NHS England.</p> <p>Tenofovir alafenamide is specifically used for patients with definite contra-indications to tenofovir disoproxil fumarate such as confirmed osteoporosis or high risk of major fracture; or renal disease CKD stage G3, or G1/2 plus proteinuria stage A3 or nearing this threshold.</p> <p>Additionally, it can be prescribed for patients with relative contra - indications to TDF such as patients approaching threshold of osteoporosis and/or renal markers outlines above where abacavir is not suitable alternative</p> <p>Restricted: GUM & CIU only.</p>	<p>Hospital only</p>	
<p>Kaletra Paediatric (Lopinavir/ritonavir)</p>	<p>50/25mg tablets</p>	<p>Treatment of HIV-1 infection in paediatric patients, and adult patients with difficulties swallowing the adult (100mg/50mg) tablets</p> <p>Restricted: PID, CIU and GUM.</p>	<p>Hospital only</p>	

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Medicines Formulary

Maraviroc	150mg & 300mg tablet	For treatment of experienced adult patients with R5-tropic HIV-1 infection Restricted: GUM & CIU only	Hospital only	
Nevirapine MR	50mg, 100mg & 400mg tablet	Consultants and registrars working within Genitourinary Medicine or on Clinical infection unit (CIU) only for the treatment of HIV as per the London consortium guidelines	Hospital only	

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Medicines Formulary

Odefsey® (Rilpivirine / emtricitabine / <u>tenofovir</u> <u>alafenamide</u>)	25mg / 200mg / 25mg tablets	<p>For the treatment of of HIV-1 infection in adults, for the proposed indications by NHS England.</p> <p>Tenofovir alafenamide is specifically used for patients with definite contra-indications to tenofovir disoproxil fumarate such as confirmed osteoporosis or high risk of major fracture; or renal disease CKD stage G3, or G1/2 plus proteinuria stage A3 or nearing this threshold.</p> <p>Additionally, it can be prescribed for patients with relative contra - indications to TDF such as patients approaching threshold of osteoporosis and/or renal markers outlines above where abacavir is not suitable alternative</p> <p>Restricted: GUM & CIU only.</p>	Hospital only	
Raltegravir	400mg & 600mg tablets, 25mg & 100mg chewable tablets	<p>For treatment of HIV 1 in patients with replication despite on-going anti- retroviral treatment</p> <p>Tablets Restricted to: GUM & CIU only</p> <p>Chewable tablets Restricted to: GUM, CIU & Paediatric Infectious Diseases Only</p>	Hospital only	

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Medicines Formulary

Rezosta® (Darunavir /cobicistat)	800mg/150mg tablet	For the treatment of human immunodeficiency virus-1 (HIV-1) infection in adults aged 18 years or older without darunavir resistance associated mutations. Restricted: GUM & CIU only.	Hospital only	
Rilpivirine	25mg tablet	For the treatment of patients with a VL<100,000 or in patients receiving Atripla but who are contraindicated for or unable to tolerate efavirenz	Hospital only	
Ritonavir	100mg tablets	For the treatment of of HIV-1 infection, for the proposed indications by NHS England. Restricted: GUM & CIU only.	Hospital only	
Stribild® (Elvitegravir, Cobicistat, Tenofovir, Emtricitabine).	150/150/245/200mg tablet	For the treatment of of HIV-1 infection in adults, for the proposed indications by NHS England. Restricted: GUM & CIU only.	Hospital only	
Symtuza® (Darunavir/ Cobicistat/ Emtricitabine/ Tenofovir Alafenamide)	800mg/150mg/200mg/10mg Tablets	Restricted: HIV team Only Treatment of human immunodeficiency virus type 1 (HIV-1) infection in adults and adolescents (aged 12 years and older with body weight ≥ 40 kg).	Hospital Only	

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Medicines Formulary

Tenofovir disoproxil (as fumarate)	33mg/g granules	Tenofovir may be used in combination with other anti-retroviral medicinal products for the treatment of human immunodeficiency virus (HIV-1) infection in children and adults adults for whom a solid dosage form is not appropriate.	Hospital only	
Triumeq® (Dolutegravir, Abacavir, Lamivudine)	50mg/600mg/300mg tablet	Triumeq® is indicated for the treatment of human immunodeficiency virus-1 (HIV-1) infection in adults and adolescents aged 12 years and over, at least 40 kg in weight, who are antiretroviral treatment-naïve or are infected with HIV-1 without known mutations associated with resistance to any of the three antiretroviral agents in Triumeq®. Restricted: GUM & CIU only	Hospital only	

5.3.2 Herpesvirus infection

Aciclovir	200mg, 400mg, & 800mg tablet; 200mg in 5ml suspension; 250mg intravenous infusion; 500mg in 20ml injection		Suitable for initiation and continuation by primary care Injection = Hospital only	
Famciclovir	125mg & 250mg tablet		Suitable for initiation and continuation by primary care	
Inosine pranobex	500mg tablet	Restricted: GUM & CIU only	Suitable for initiation and continuation by primary care	
Valaciclovir	500mg tablet	Restricted: GUM & CIU only	Suitable for initiation and continuation by primary care	

5.3.2.2 Cytomegalovirus infection

Cidofovir	375mg in 5ml injection	Restricted: GUM & CIU only	Hospital only	
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Medicines Formulary

Foscarnet sodium	24mg in 1ml infusion	Restricted: GUM & CIU only	Hospital only	
Ganciclovir	500mg intravenous infusion	Restricted: GUM & CIU only	Hospital only	
Valganciclovir	450mg tablet 50mg/ml oral solution	Restricted: GUM, CIU, & Renal Medicine only	Hospital only	
5.3.3 Viral hepatitis				
Adefovir dipivoxil	10mg tablet	Restricted: CIU & Hepatology only	Hospital only	
Boceprevir	200mg capsule	Restricted: For use by Dr Forton in the Viral Hepatitis Clinic and Co-infection clinics at St Georges site according to local protocol and NICE for the treatment of chronic hepatitis C (CHC) genotype 1 infection, in combination with peginterferon alfa and ribavirin, in adult patients with compensated liver disease who are previously untreated or who have failed previous therapy	Hospital only	
Dasabuvir (Exviera)	250 mg tablet	Restricted: For use by hepatology consultants for the treatment of chronic hepatitis C genotype 1.	Hospital only	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Declastavir	60mg tablet [unlicensed]	<p>For the treatment of chronic hepatitis C in combination with sofosbuvir in adults with:</p> <ul style="list-style-type: none"> Evidence of present or previous decompensated cirrhosis with an episode of ascites, variceal bleeding or encephalopathy Child Pugh score ≥ 7 Non-hepatic manifestation of HCV infection likely to lead to irreversible damage within 12 months AND intolerant of or failed to respond to pegylated interferon-based treatment Exceptional cases. Only patients at high risk of death, needing a liver transplant or likely to suffer irreversible harm in the next 12 months who are not suitable for treatment with pegylated interferon-based treatment will be eligible In accordance with commissioning guidelines, within constraints of the early access scheme <p>Restricted: For use by hepatology consultants only (Dr Forton, Dr Clark and Dr Gess only)</p>	Hospital only	
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St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Elbasvir / grazeprevir	50mg / 100mg tablet	For the treatment of chronic hepatitis C infection in patients with Genotype 1 or Genotype 4 infection Restricted: Hepatology only	Hospital only	
Entecavir	0.5mg & 1mg tablets; 50 microgram in 1ml oral solution	Restricted: CIU & Hepatology only	Hospital only	
Glecaprevir/pibrentasvir (Maviret®)	100mg/40mg combination tablet	For use according to NHS England commissioning guidelines for the management of chronic hepatitis C infection Restricted: For prescription by Dr Forton, Dr Clark and Dr Gess only	Hospital only	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Ledipasvir	90mg tablet [unlicensed]	<p>For the treatment of chronic hepatitis C in adults with:</p> <ul style="list-style-type: none"> Evidence of present or previous decompensated cirrhosis with an episode of ascites, variceal bleeding or encephalopathy Child Pugh score ≥ 7 Non-hepatic manifestation of HCV infection likely to lead to irreversible damage within 12 months AND intolerant of or failed to respond to pegylated interferon-based treatment Exceptional cases. Only patients at high risk of death, needing a liver transplant or likely to suffer irreversible harm in the next 12 months who are not suitable for treatment with pegylated interferon-based treatment will be eligible In accordance with commissioning guidelines, within constraints of the early access scheme <p>Restricted: For use by hepatology consultants only (Dr Forton, Dr Clark and Dr Gess only)</p>	Hospital only	
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St George's University Hospitals NHS Foundation Trust
Medicines Formulary

Ombitasvir/ paritaprevir/ritonavir (Viekirax)	12.5 mg ombitasvir, 75 mg paritaprevir and 50 mg of ritonavir combination tablet.	Restricted: For use by hepatology consultants for the treatment of chronic hepatitis C genotypes 1 & 4	Hospital only	
Simeprevir	150mg capsule	For the treatment of chronic hepatitis C virus, genotype 1, for both treatment naïve patients and those who have previously failed to respond to peg- Interferon with or without ribavirin Restricted: For use by hepatology consultants only	Hospital only	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Sofosbuvir	400mg tablets	<p>For the treatment of chronic hepatitis C in adults with:</p> <ul style="list-style-type: none"> Evidence of present or previous decompensated cirrhosis with an episode of ascites, variceal bleeding or encephalopathy Child Pugh score ≥ 7 Non-hepatic manifestation of HCV infection likely to lead to irreversible damage within 12 months AND intolerant of or failed to respond to pegylated interferon-based treatment Exceptional cases. Only patients at high risk of death, needing a liver transplant or likely to suffer irreversible harm in the next 12 months who are not suitable for treatment with pegylated interferon-based treatment will be eligible In accordance with commissioning guidelines, within constraints of the early access scheme <p>Restricted: For use by hepatology consultants only (Dr Forton, Dr Clark and Dr Gess only)</p>	Hospital only	
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St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Sofosbuvir with Velpatasvir	400mg/100mg tablet	Restricted: For prescription by Drs Forton, Clark, and Gess. For the treatment of patients with chronic hepatitis C infection as per NHSE commissioning via the South Thames Hep C ODN MDT based at St Georges, and NICE	Hospital Only	
Sofosbuvir - Velpatasvir – Voxilaprevir (Vosevi®)	400mg/100mg/100mg tablets	Hepatology team- Hospital Only Chronic Hepatitis Restricted to: Dr Forton, Dr Clark, Dr Gess	Hospital only	
Telaprevir	375mg tablet	Restricted: For use by Dr Forton in the Viral Hepatitis Clinic and Co-infection clinics at St Georges site according to local protocol and NICE for the treatment of chronic hepatitis C (CHC) genotype 1 infection, in combination with peginterferon alfa and ribavirin, in adult patients with compensated liver disease who are previously untreated or who have failed previous therapy	Hospital only	
5.3.4 Influenza				
Oseltamivir	30mg, 45mg & 75mg capsules; 60mg in 5ml suspension	Refer to NICE, DoH, and Trust guidelines	Suitable for initiation and continuation by primary care	
Zanamivir	5mg per blister dry powder for inhalation (for use with Diskhaler device) 200mg in 20ml injection	Refer to NICE, DoH, and Trust guidelines	Suitable for initiation and continuation by primary care Hospital Only	

St George's University Hospitals NHS Foundation Trust Medicines Formulary

5.3.5 Respiratory syncytial virus

Palivizumab	50mg & 100mg injection	Restricted: CIU only	Hospital only	
Ribavirin	200mg tablet	Restricted: CIU & Hepatology only	Hospital only	
	400mg/mL Liquid	Restricted: Paediatrics only		

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

5.4 Antiprotozoal Drugs

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
5.4.1 Antimalarials				
Artemeter and lumefantrine (Riamet®)	20 mg/120 mg tablets	Restricted: CIU consultants only For the treatment of non-severe malaria acute uncomplicated Plasmodium falciparum malaria in adults, children and infants of 5 kg and above	Hospital only	
Artesunate	60mg injection [unlicensed]	Restricted: CIU consultants only For patients under the care of paediatric infectious diseases or on advice of a paediatric infectious diseases consultant For treatment of severe malaria falciparum	Hospital only	
Chloroquine	250mg tablet(≡ 155mg chloroquine base); 68mg in 5ml syrup (≡ 50mg in 5ml chloroquine base)	1 st line treatment of non-falciparum malaria or where chloroquine resistance unlikely. Not for falciparum, mixed malaria, or if species unknown	Suitable for initiation and continuation by primary care Antimalarial prophylaxis NOT for Hospital prescribing	
Clindamycin	150mg capsule; 75mg in 5ml suspension	Follow-on treatment with quinine (2 nd line) High risk of C. diff – use with care	Suitable for initiation and continuation by primary care	
Doxycycline	50mg & 100 mg capsules; 100mg dispersible tablet	Follow-on treatment with quinine (1 st line)	Suitable for initiation and continuation by primary care Antimalarial prophylaxis NOT for Hospital prescribing	

St George's University Hospitals NHS Foundation Trust

Medicines Formulary

Mefloquine	250mg tablet	Prophylaxis only	Suitable for initiation and continuation by primary care Antimalarial prophylaxis NOT for Hospital prescribing	
Primaquine	7.5mg tablet [unlicensed]	Adjuvant therapy in vivax or ovale	Suitable for initiation and continuation by primary care	
Proguanil hydrochloride	100mg tablet	Prophylaxis only	Suitable for initiation and continuation by primary care Antimalarial prophylaxis NOT for Hospital prescribing	
Proguanil hydrochloride with Atovaquone (Malarone®)	100mg + 250mg tablet (Standard tablets)	1 st line for treatment of uncomplicated falciparum malaria	Suitable for initiation and continuation by primary care	
Malarone® Paediatric	25mg + 62.5mg tablet		Antimalarial prophylaxis NOT for Hospital prescribing	
Pyrimethamine + Sulfadoxine (Fansidar®)	25mg + 500mg tablet [unlicensed]	Note: Malarone® preferred	Suitable for initiation and continuation by primary care	
Quinine	200mg & 300mg tablets (as sulphate); 600mg in 2ml injection (as dihydrochloride) [unlicensed]	Note: Quinine (anhydrous base) 100mg ≡ quinine sulphate 121mg ≡ quinine dihydrochloride 122mg	Suitable for initiation and continuation by primary care Injection = Hospital only	
5.4.2 Amoebicides				
Diloxanide furoate	500mg tablet		Suitable for initiation and continuation by primary care	
Metronidazole	200mg & 400mg tablets; 200mg in 5ml suspension; 500mg in 100ml infusion; 500mg & 1g suppositories		Suitable for initiation and continuation by primary care Injection = Hospital only	

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Tinidazole	500mg tablet		Suitable for initiation and continuation by primary care	
5.4.3 Trichomonacides				
Metronidazole	200mg & 400mg tablets; 200mg in 5ml suspension; 500mg in 100ml infusion; 500mg & 1g suppositories		Suitable for initiation and continuation by primary care Injection = Hospital only	
Tinidazole	500mg tablet		Suitable for initiation and continuation by primary care	
5.4.4 Antigiardial drugs				
Mepacrine hydrochloride	100mg tablet [unlicensed]		Suitable for initiation and continuation by primary care	
Metronidazole	200mg & 400mg tablets; 200mg in 5ml suspension; 500mg in 100ml infusion; 500mg & 1g suppositories		Suitable for initiation and continuation by primary care Injection = Hospital only	
Tinidazole	500mg tablet		Suitable for initiation and continuation by primary care	
5.4.5 Leishmaniacides – CIU & Paediatric ID only				
Amphotericin (Fungizone™)	50mg injection	Prescribe by BRAND	Hospital only	
Liposomal Amphotericin (AmBisome™)	50mg injection	Prescribe by BRAND	Hospital only	
Pentamidine isetionate	300mg injection		Hospital only	
5.4.6 Trypanocides				
5.4.7 Drugs for toxoplasmosis				
Atovaquone	150mg in 1ml suspension		Hospital only	
Azithromycin	250mg tablet; 250mg capsule; 200mg in 5ml suspension		Suitable for continuation by primary care	
Clindamycin	150mg capsule; 75mg in 5ml suspension; 600mg injection	High risk of C. diff – use with care	Suitable for continuation by primary care Injection = Hospital only	

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Medicines Formulary

Pyrimethamine	25mg tablet		Suitable for continuation by primary care	
Sulfadiazine	500mg tablet		Suitable for continuation by primary care	
5.4.8 Drugs for pneumocystis pneumonia – CIU & GUM Consultants only				
Atovaquone	150mg in 1ml suspension	3 rd line	Hospital only	
Clindamycin	150mg capsule; 75mg in 5ml suspension; 600mg injection	2 nd line (with Primaquine) High risk of C. diff – use with care	Hospital only	
Co-trimoxazole (trimethoprim + sulphamethoxazole)	480mg tablet, 960mg tablet; 240mg in 5ml suspension (sugar free), 480mg in 5ml suspension; 480mg infusion	1 st line	Hospital only	
Dapsone	50mg & 100mg tablets	2 nd line (with Trimethoprim)	Hospital only	
Pentamidine isetionate	300mg injection	3 rd line	Hospital only	
Primaquine	7.5mg tablet [unlicensed]	2 nd line (with clindamycin)	Hospital only	
Trimethoprim	100mg tablet, 200mg tablet; 50mg in 5ml suspension	2 nd line (with Dapsone)	Hospital only	

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Medicines Formulary

5.5 Anthelmintics				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
5.5.1 Drugs for threadworms (pinworms, <i>Enterobius vermicularis</i>)				
Mebendazole	100mg tablet; 100mg in 5ml suspension		Suitable for initiation and continuation by primary care	
5.5.2 Ascaricides (common roundworm infections)				
Mebendazole	100mg tablet; 100mg in 5ml suspension		Suitable for initiation and continuation by primary care	
5.5.3 Drugs for tapeworm infections				
Niclosamide	500mg tablet [unlicensed]		Hospital only	
Praziquantel	600mg tablet [unlicensed]		Hospital only	
5.5.4 Drugs for hookworms				
Mebendazole	100mg tablet; 100mg in 5ml suspension		Suitable for initiation and continuation by primary care	
5.5.5 Schistosomicides				
Praziquantel	600mg tablet [unlicensed]		Hospital only	
5.5.6 Filaricides				
Diethylcarbamazine	50mg tablets [unlicensed]		Hospital only	

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Medicines Formulary

Chapter 6: Endocrine System

6.1 Drugs used in Diabetes

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.1.1 Insulins				
Short-acting insulins				
Insulin aspart	Novorapid [®] : 10ml vial; 3ml cartridge; 3ml prefilled pen (FlexPen)		Suitable for initiation and continuation by primary care	
Insulin glulisine	Apidra [®] : 10ml vial; 3ml prefilled pen (SoloStar)		Suitable for initiation and continuation by primary care	
Insulin lispro	Humalog [®] : 10ml vial; 3ml cartridge; 3ml prefilled pen (KwikPen)		Suitable for initiation and continuation by primary care	
Soluble insulin	Actrapid [®] 10ml vial Humulin S [®] 3ml cartridge Hypurin [®] Porcine Neutral: 10ml vial		Suitable for initiation and continuation by primary care	
Intermediate- and long-acting insulins				
Insulin Degludec	Tresiba [®] : 100units/ml <i>Penfill</i> [®] cartridge; 100units/ml <i>FlexTouch</i> [®] prefilled disposable injection devices	Restricted: 3 rd line basal analogue (after levemir and lantus) For the treatment of adults > 18years with Type 1 diabetes mellitus For prescription by a consultant diabetologist only	Suitable for continuation by primary care after initial 3 month supply by hospital	
Insulin detemir	Levemir [®] : 3ml cartridge; 3ml prefilled pen (FlexPen); 3ml prefilled device (InnoLet)		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Insulin glargine	Lantus® : 10ml vial; 3ml prefilled pen (SoloStar); 3ml prefilled pen (OptiSet); 3ml cartridge (for OptiPen)	Where a pen is required, SoloStar preferred OptiPen cartridges & OptiSet only for patients admitted with the device	Suitable for initiation and continuation by primary care	
Insulin Glargine (Toujeo®) (High Strength Insulin)	300units/ml Subcutaneous Injection	Restricted: Initiation should be by consultant diabetologist, DSN or a clinician with specialist interest in diabetes in patients	Suitable for initiation and continuation by primary and secondary care	
Isophane insulin	Humulin I® : 3ml cartridge injection; 3ml prefilled pen (KwikPen) Insulatard® : 10ml vial; 3ml cartridge; 3ml prefilled device (InnoLet) Hypurin® Porcine Isophane : 10ml vial	Initiation should be by consultant diabetologist, DSN or a clinician with specialist interest in diabetes in patients	Suitable for initiation and continuation by primary care	
Biphasic insulins				
Biphasic insulin aspart	NovoMix 30® : 3ml cartridge; 3ml prefilled pen (FlexPen)	30% Insulin aspart, 70% Insulin aspart protamine	Suitable for initiation and continuation by primary care	
Biphasic insulin lispro	Humalog® Mix25 : 10ml vial; 3ml cartridge; 3ml prefilled pen (KwikPen)	25% Insulin lispro, 75% Insulin lispro protamine	Suitable for initiation and continuation by primary care	
Biphasic isophane insulin	Humulin® M3 : 10ml vial; 3ml cartridge; 3ml prefilled pen (KwikPen) Hypurin® Porcine 30/70 Mix : 10ml vial	30% soluble, 70% isophane	Suitable for initiation and continuation by primary care	
6.1.2 Antidiabetic drugs				
6.1.2.1 Sulfonylureas				
Glibenclamide	2.5mg & 5mg tablets	Not for initiation in hospital; for continuation only	Suitable for initiation and continuation by primary care	
Gliclazide	80mg tablet; 30mg MR tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Tolbutamide	500mg tablet		Suitable for initiation and continuation by primary care	
6.1.2.2 Biguanides				
Metformin hydrochloride	500mg & 850mg tablets; 500mg SR tablet and 500mg in 5ml oral solution	1 st line = tablets 2 nd line = oral solution	Suitable for initiation and continuation by primary care	
6.1.2.3 Other antidiabetic drugs				
Acarbose	50mg tablet		Suitable for initiation and continuation by primary care	
Alogliptin	25 mg, 12.5 mg and 6.25 mg	For the treatment of type 2 diabetes mellitus in accordance with the CCG / SGUH joint diabetes guidelines	Suitable for initiation and continuation by primary care	
Canagliflozin	100mg & 300mg tablets	Type 2 diabetes mellitus in adults aged 18 years and older as combination therapy: - in dual therapy with metformin if sulfonylurea contraindicated or not tolerated or the person is at significant risk of hypoglycaemia or its consequences - in triple therapy with metformin and a sulfonylurea or metformin and a thiazolidinedione - with insulin with or without other antidiabetic drugs	Suitable for continuation by primary care after initial 6 month supply by hospital	

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Medicines Formulary

Dapagliflozin	5mg & 10mg tablet	<p>Approved for the following indications:</p> <p>1. To be used in a dual therapy regimen added to first line metformin if blood glucose control is inadequate and the person is</p> <p>i) at significant risk of hypoglycaemia or its consequences or</p> <p>ii) does not tolerate or cannot take a sulphonylurea</p> <p>2. In combination with insulin with or without other anti-diabetic drug.</p> <p>Treatment should be reviewed at 6 months and only continued if effective in reducing HbA_{1c}.</p> <p>Restricted: For prescription by Diabetes/Endocrinology consultants/specialist trainees only</p>	Suitable for continuation by primary care after initial 6 month supply by hospital	
Dulaglutide	0.75 mg and 1.5 mg pre-filled pen for injection	<p>For prescription by diabetes and endocrinology in accordance with the CCG / SGUH joint diabetes guidelines</p> <p>To be used for the treatment of adults with type 2 diabetes mellitus to improve glycaemic control as add-on therapy in combination with other glucose-lowering medicinal products including insulin, when these, together with diet and exercise, do not provide adequate glycaemic control</p>	Suitable for continuation by primary care	

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Medicines Formulary

Empagliflozin	10mg & 25mg tablets	<p>For the treatment of patients with type 2 diabetes mellitus according to NICE-approved indications which are:</p> <p>As an option as dual therapy in combination with metformin only if: A sulfonylurea is contraindicated or not tolerated or The person is at significant risk of hypoglycaemia or its consequences</p> <p>As an option in a triple therapy regimen in combination with: Metformin and a sulfonylurea or Metformin and a thiazolidinedione</p> <p>As an option in combination with insulin with or without antidiabetic drugs</p> <p>Restricted: For prescription by Diabetes physicians and specialist nurses only</p>	Suitable for continuation by primary care after initial 6 month supply by hospital	
Ertugliflozin (Steglatro®)	5mg & 15 mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Semaglutide	0.25mg, 0.5mg, 1mg Pre-Filled Pen	<p>Endocrine team- Hospital Only</p> <p>For the treatment of adults with insufficiently controlled type 2 diabetes mellitus as per NICE guidelines and SGUH/MCCG/WCC G Joint Guidelines for Adult T2DM</p> <ul style="list-style-type: none"> • where triple therapy with metformin plus two of DPP4 inhibitor/sulfonylurea /pioglitazone is not effective, not tolerated or contraindicated and • BMI $\geq 35 \text{ kg/m}^2$ and specific psychological or other medical problems associated with obesity <p>OR BMI $< 35 \text{ kg/m}^2$ and for whom insulin therapy would have significant occupational implications, or weight loss would benefit other significant obesity related co-morbidities</p>	Suitable for initiation by secondary care and continuation by primary and secondary care	
Liraglutide	6mg in 1ml injection	For patients unable to tolerate exenatide	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Lixisenatide	10mcg/dose prefilled pen 20mcg/dose prefilled pen	To be prescribed according to the NICE TA For obese patients with BMI of >35, who are poorly controlled diabetics on metformin who require GLP-1 therapy.	Suitable for initiation and continuation by primary care	
Pioglitazone	15mg tablet; 30mg tablet		Suitable for initiation and continuation by primary care	
Repaglinide	500microgram & 2mg tablets		Suitable for initiation and continuation by primary care	
Sitagliptin	100mg tablet		Suitable for initiation and continuation by primary care	
6.1.3 Diabetic ketoacidosis				
6.1.4 Treatment of hypoglycemia				
Glucagon	1mg injection Hypobox[®] Containing: GlucoTabs, GlucoGel cartons, Gluco Juice, Glucagon 1mg injection		Suitable for initiation and continuation by primary care	
Glucose	10% & 30% infusions; 10% with Potassium 0.15% & 10% with Potassium 0.3% infusions		Hospital only	
6.1.5 Treatment of diabetic nephropathy and neuropathy				
Amitriptyline	10mg, 25mg & 50 mg tablets; 50mg in 5ml syrup		Suitable for initiation and continuation by primary care	
Carbamazepine	100mg, 200mg, & 400mg tablets; 200mg & 400mg CR tablets; 100mg in 5ml liquid; 125mg & 250mg suppositories		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Codeine phosphate	15mg, 30mg & 60mg tablets; 25mg in 5ml oral solution; 30mg in 1ml & 60mg in 1ml injection	Injection = Controlled Drug	Suitable for initiation and continuation by primary care	
Domperidone	10mg tablet; 1mg in 1ml suspension; 30mg suppository		Suitable for initiation and continuation by primary care	
Duloxetine	30mg & 60mg capsule		Suitable for initiation and continuation by primary care	
Gabapentin	100mg, 300mg, & 400mg capsules		Suitable for initiation and continuation by primary care	
Ibuprofen	200mg & 400mg tablets; 100mg in 5ml suspension		Suitable for initiation and continuation by primary care	
Metoclopramide	10mg tablet; 5mg in 5ml oral solution; 10mg in 2ml injection		Suitable for initiation and continuation by primary care	
Morphine salts	10mg in 5ml & 100mg in 5ml oral solution; 10mg, 20mg & 50mg tablets; 5mg, 10mg, 30mg, 60mg, 100mg & 200mg MR tablets; 10mg in 1ml, 15mg in 1ml, 30mg in 1ml, 60mg in 2ml injection; 50mg in 50ml syringe	Controlled Drug	Suitable for initiation and continuation by primary care	
Oxycodone hydrochloride	5mg, 10mg & 20mg capsules; 5mg in 5ml oral solution; 10mg in 1ml concentrated oral solution; 5mg, 10mg, 20mg, 40mg & 80mg MR tablet; 10mg in 1ml, 20mg in 2ml, 50mg in 1ml injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Paracetamol	500mg tablet; 500mg soluble tablet; 120mg in 5ml suspension; 250mg in 5ml suspension Suppositories: 15mg, 30mg, 60mg 120mg, 125mg, 240mg 500mg		Suitable for initiation and continuation by primary care	
Pregabalin	25mg, 50mg, 75mg,		Suitable for initiation	

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	100mg, 150mg, 200mg, 225mg, & 300mg capsules		and continuation by primary care	
Propantheline bromide	15mg tablet		Suitable for initiation and continuation by primary care	
Tramadol	50mg capsule; 100mg MR tablet		Suitable for initiation and continuation by primary care	
6.1.6 Diagnostic and monitoring devices for diabetes mellitus				
Optium H	Test strips	Restricted: To Renal patients. Used with extraneal CAPD to prevent falsely elevated glucose levels.	Suitable for initiation and continuation by primary care	

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Medicines Formulary**6.2 Thyroid and Antithyroid Drugs**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.2.1 Thyroid hormones				
Levothyroxine sodium	25microgram, 50microgram, & 100microgram tablets		Suitable for initiation and continuation by primary care	
Liothyronine sodium	5 microgram, 10 microgram and 20microgram tablet 20microgram injection		Suitable for initiation and continuation by primary care Injection = Hospital only	
6.2.2 Antithyroid drugs				
Aqueous Iodine	Iodine 5% + Potassium iodide 10% oral solution (Lugol's solution)		Suitable for initiation and continuation by primary care	
Carbimazole	5mg & 20mg tablets		Suitable for initiation and continuation by primary care	
Potassium iodide	60mg capsule [Unlicensed]		Hospital only	
Propylthiouracil	50mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

6.3 Corticosteroids				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.3.1 Replacement therapy				
Fludrocortisone acetate	100microgram tablet		Suitable for initiation and continuation by primary care	
6.3.2 Glucocorticoid therapy				
Betamethasone	500microgram tablet; 500microgram (as sodium phosphate) soluble tablet; 4mg in 1ml injection	Soluble tablet may be used as a mouthwash	Suitable for initiation and continuation by primary care	
Dexamethasone	500microgram & 2mg tablet; 2mg in 5ml oral solution; 4mg in 1ml injection & 8mg in 2ml injection		Suitable for initiation and continuation by primary care	
Dexamethasone Preservative Free (Panpharma®)	3.3mg in ml injection	Restricted: Anaesthesia and pain specialist use only.	Hospital Only	
Hydrocortisone	10mg & 20mg tablet; 100mg (as sodium phosphate) in 1ml injection; 100mg (as sodium succinate) injection; 0.5mg & 1mg granules	Hydrocortisone sodium phosphate and Hydrocortisone sodium succinate are fast-acting solutions. For intra-articular & intramuscular injections see section 10.1.2 Granules Restricted to: Paediatric Endocrinology team	Suitable for initiation and continuation by primary care For Granules: Suitable for initiation by secondary care and continuation by primary and secondary care	
Methylprednisolone	100mg tablet; 40mg, 125mg, 500mg & 1g (as sodium succinate) injections	For intra-articular & intramuscular injections see section 10.1.2	Suitable for initiation and continuation by primary care	
Prednisolone	1mg, 5mg, & 20mg tablet;		Suitable for initiation and continuation by primary care	
Triamcinolone	40mg in 1ml injection	For intra-articular & intramuscular injections see section 10.1.2	Suitable for initiation and continuation by primary care	

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Medicines Formulary

6.4 Sex Hormones				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.4.1 Female sex hormones				
6.4.1.1 Oestrogens and HRT				
Ethinylestradiol	10microgram & 50microgram tablets		Suitable for initiation and continuation by primary care	
Oestrogens for HRT	Conjugated oestrogens with progestogen: Premique® (conjugated oestrogen 625micrograms + medroxyprogesterone acetate 5mg) tablets Estradiol with progestogen: Climagest® 1mg & 2mg tablets Estradiol only: Climaval® 1mg & 2mg tablets; Evorel® 50microgram & 100microgram patches; 25mg & 50mg Implants [Unlicensed]		Suitable for initiation and continuation by primary care	
Raloxifene	60mg tablet		Suitable for initiation and continuation by primary care	
6.4.1.2 Progestogens				
Dydrogesterone	10mg tablet		Suitable for initiation and continuation by primary care	
Medroxyprogesterone acetate	5mg & 10mg tablets		Suitable for initiation and continuation by primary care	
Norethisterone	5mg tablet		Suitable for initiation and continuation by primary care	
Progesterone	200mg & 400mg pessaries		Suitable for initiation and continuation by primary care	

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Medicines Formulary

6.4.2 Male sex hormones and antagonists

Cyproterone acetate	50mg tablet		Suitable for initiation and continuation by primary care	
Finasteride	5mg tablet		Suitable for initiation and continuation by primary care	
Testosterone and esters	40mg capsule Intramuscular: 250mg (as enantate) in 1ml oily injection; 1g (as undecanoate) in 4ml only injection; 250mg (as mixed esters (Sustanon 250®)) 1ml oily injection Implants: 100mg & 200mg implants Transdermal: 1% gel		Suitable for initiation and continuation by primary care	

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Medicines Formulary

6.5 Hypothalamic and Pituitary Hormones and Anti-oestrogens

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.5.1 Hypothalamic and anterior pituitary hormones and anti-oestrogens				
Chorionic gonadotrophin	1500unit & 5000unit injections		Hospital only	
Clomifene citrate	50mg tablet		Suitable for initiation and continuation by primary care	
Demeclocycline hydrochloride	150mg capsule	Restricted: for treatment of hyponatraemia from SIADH	Suitable for continuation by primary care	
Gonadorelin	100microgram injection		Hospital only	
Somatropin	Brand & device according to patient need	Restricted: 1. Paediatric Endocrinology Clinic only 2. Adults according to NICE guidance; Outpatients only; PBR Tick Box Form required; FP10s by special arrangement High Cost Drug	Suitable for initiation and continuation by primary care Adults = Hospital only	
Protirelin	200microgram in 2ml injection			
Tetracosactide	250microgram in 1ml injection; 1mg in 1ml depot injection		Hospital only	
6.5.2 Posterior pituitary hormones and antagonists				
<u>Argipressin (synthetic vasopressin)</u>	20units in 1ml injection		Hospital only	

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Desmopressin	100microgram & 200microgram tablets; 60microgram sublingual tablet (DDAVP Melt[®]); 10microgram per actuation nasal spray; 150microgram per actuation nasal spray (Octim[®]); 4microgram in 1ml & 15microgram in 1ml injection		Suitable for initiation and continuation by primary care 15microgram in 1ml Injection = Hospital only	
Terlipressin	1mg injection		Hospital only	
Tolvaptan	15mg, 30mg, 60mg, 90mg tablets	For the treatment of autosomal dominant polycystic kidney disease (ADPKD) in adults to slow progression of cyst development and renal insufficiency if: • They have chronic kidney disease stage 2 or 3 at the start of treatment • There is evidence of rapidly progressing disease (based on GFR, symptoms or quality of life NICE TA 358	Hospital only	

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Medicines Formulary

6.6 Drugs affecting bone metabolism

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.6.1 Calcitonin and parathyroid hormone				
Calcitonin (salmon)	100units in 1ml injection		Hospital only	
Teriparatide	750microgram in 3ml prefilled pen		Hospital only	
6.6.2 Bisphosphonates and other drugs affecting bone metabolism				
Alendronic acid	10mg & 70mg tablets		Suitable for initiation and continuation by primary care	
Clodronate sodium	400mg capsule		Suitable for initiation and continuation by primary care	
Denosumab	60mg in 1ml injection (Prolia®)	Restricted: Rheumatology & Care of the Elderly Consultants only	Suitable for continuation by primary care	
	120mg injection (Xgeva®)	Restricted: Oncology Team only	Hospital Only	
Disodium pamidronate	15mg in 5ml, 60mg in 10ml & 90mg in 10ml injections		Hospital only	
Ibandronic acid	50mg tablet; 3mg in 3ml injection (Bonviva®)	Restricted: Tablets restricted to Oncology Consultants only; Bonviva® restricted to Rheumatology & Care of the Elderly Consultants only	Suitable for initiation and continuation by primary care Injection= Hospital only	
Risedronate sodium	5mg & 35mg tablets		Suitable for initiation and continuation by primary care	
Strontium ranelate	2g granules		Suitable for initiation and continuation by primary care	
Zoledronic acid	4mg in 100ml intravenous infusion	Restricted: For use in osteoporosis and prescribed by named consultants only For use in children with symptomatic primary / secondary osteoporosis on prescription by paediatric medicine	Hospital only	

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		only For the treatment of children with metabolic bone disorder e.g. osteogenesis imperfecta under shared care arrangements with a specialist bone centre prescribed by paediatric medicine only		
Zoledronic acid	5mg in 100ml intravenous infusion (Aclasta®)	Restricted: Rheumatology & Care of the Elderly Consultants only	Hospital only	

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Medicines Formulary

6.7 Other Endocrine Drugs				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
6.7.1 Bromocriptine and other dopaminergic drugs				
Bromocriptine	2.5mg tablet		Suitable for initiation and continuation by primary care	
Cabergoline	500microgram, 1mg & 2mg tablet		Suitable for initiation and continuation by primary care	
6.7.2 Drugs affecting gonadotrophins				
Danazol	100mg & 200mg capsule		Suitable for initiation and continuation by primary care	
Leuprorelin	3.75mg & 11.25mg injection		Suitable for initiation and continuation by primary care	
Triptorelin	3.75mg injection; 11.25mg injection (Decapeptyl® SR)		Suitable for initiation and continuation by primary care	
6.7.3 Metyrapone and trilostane				
Metyrapone	250mg capsules		Suitable for initiation and continuation by primary care	
6.7.4 Somatomedins				
Mecasermin	10 mg/ml injection (Increlex®)	Restricted: Paediatric endocrinologists	Hospital only	

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Medicines Formulary

Chapter 7: Obstetrics, Gynaecology, and Urinary-Tract Disorders

7.1 Drugs used in Obstetrics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
7.1.1 Prostaglandins and oxytocics				
Carboprost	250microgram in 1ml injection		Hospital only	
Dinoprostone	3mg vaginal tablet; 10mg pessary within retrieval device (Propess®); 750microgram in 0.75ml & 5mg in 0.5ml injections; 5mg in 0.5ml extra-amniotic solution		Hospital only	
Ergometrine maleate	500microgram tablet; 500microgram in 1ml injection		Hospital only	
Oxytocin	5unit in 1ml & 10units in 1ml injections		Hospital only	
7.1.1.1 Drugs affecting the ductus arteriosis				
Ibuprofen	10mg in 2ml injection		Hospital only	
Indometacin	1mg injection		Hospital only	
Dinoprostone	750microgram in 0.75ml injection		Hospital only	
7.1.2 Mifepristone				
Mifepristone	200mg tablet	Restricted: Obstetrics & Gynaecology only	Hospital only	
7.1.3 Myometrial relaxants				
Salbutamol	500microgram in 1ml & 5mg in 5ml injection		Hospital only	

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Medicines Formulary

7.2 Treatment of Vaginal and Vulval conditions				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
7.2.1 Preparations for vaginal and vulval changes				
Estriol	0.01% intravaginal cream with applicator (Gynest [®]); 0.1% intravaginal cream with applicator (Ovestin [®])		Suitable for initiation and continuation by primary care	
7.2.2 Vaginal and vulval infections				
Clindamycin	2% vaginal cream with applicators		Suitable for initiation and continuation by primary care	
Clotrimazole	100mg, 200mg & 500mg pessaries; 1% cream		Suitable for initiation and continuation by primary care	
Dequalinium	10mg vaginal tablet	For treatment of Bacterial Vaginosis where initial treatment is ineffective or not tolerated Restricted to: GUM/HIV Consultant	Hospital Only	
Econazole	150mg pessary		Suitable for initiation and continuation by primary care	
Metronidazole	0.75% vaginal gel		Suitable for initiation and continuation by primary care	
Miconazole	2% intravaginal cream with applicator; 100mg pessary		Suitable for initiation and continuation by primary care	
7.2.3 Vaginal and vulval infections – Unlicensed Preparations				
Nystatin	Vaginal Tablets (pessary)	For the treatment of patients with vulvovaginal candidiasis sensitive to nystatin. For use in non-albicans or azole-resistant candidiasis. Restricted: GUM / HIV clinic only	Hospital Only	

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Medicines Formulary****7.3 Contraceptives**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
7.3.1 Combined hormonal contraceptives				
Low strength	Mercilon [®] tablet (ethinylestradiol 20micrograms + desogestrel 150micrograms); Loestrin 20 [®] tablet (ethinylestradiol 20micrograms + norethisterone acetate 1mg)	Restricted: Family Planning Clinic only	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Standard strength	Marvelon[®] tablet (ethinylestradiol 30micrograms + desogestrel 150micrograms) ; Microgynon 30[®] tablet (ethinylestradiol 30micrograms + levonorgestrel 150micrograms); Fe modene[®] tablet (ethinylestradiol 30micrograms + gestodene 75micrograms); Cilest[®] tablet (ethinylestradiol 35micrograms + norgestimate 250micrograms); Ovysmen[®] tablet (ethinylestradiol 35micrograms + norethisterone 500micrograms); Microgynon 30 ED[®] tablet (ethinylestradiol 30micrograms + levonorgestrel 150microgram); Evra[®] patch (ethinylestradiol approx. 33.9micrograms/24 hours + norelgestromin approx. 203micrograms/24 hours)	Restricted: Family Planning Clinic only	Suitable for initiation and continuation by primary care	
7.3.2 Progestogen-only contraceptives				
7.3.2.1 Oral progestogen-only contraceptives ('POP')				
Desogestrel	75microgram tablet (Cerazette[®])	Restricted: Family Planning Clinic only	Suitable for initiation and continuation by primary care	
Etynodiol diacetate	500microgram tablet (Femulen[®])	Restricted: Family Planning Clinic only	Suitable for initiation and continuation by primary care	
Norethisterone	350microgram tablet (Micronor[®])	Restricted: Family Planning Clinic only	Suitable for initiation and continuation by primary care	

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Medicines Formulary

7.3.2.2 Parenteral progestogen-only contraceptives

Etonogestrel	68mg implant (Implanon[®])	Restricted: Family Planning Clinic only Discontinued (October 2010) but some women may have the implant in place until 2013	Suitable for initiation and continuation by primary care	
Medroxyprogesterone acetate	150mg in 1ml injection (Depo-Provera[®])	Restricted: Family Planning Clinic only	Suitable for initiation and continuation by primary care	

7.3.2.3 Intra-uterine progestogen-only device

Levonorgestrel	20micrograms/24 hours intra-uterine system (Mirena[®])	Restricted: Family Planning Clinic & Day Surgery Unit only	Suitable for initiation and continuation by primary care	
Levonorgestrel	13.5mg intra-uterine system (Jaydess[®])	Restricted: Reproductive Sexual health for contraception	Suitable for initiation and continuation by primary care	

7.3.3 Spermicidal contraceptives

7.3.4 Contraceptive devices

7.3.5 Emergency contraceptive

Levonorgestrel	1.5mg tablet (Levonelle[®]); 20micrograms/24 hours intra-uterine system (Mirena[®])	1 st line	Suitable for initiation and continuation by primary care	
Ulipristal acetate	30mg tablet (ellaOne[®])	2 nd line Restricted: women requiring EHC on days 4 & 5 after UPSE or contraceptive failure	Suitable for initiation and continuation by primary care	

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7.4 Drugs for Genitor-Urinary Disorders				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
7.4.1 Drugs for urinary retention				
Doxazosin	1mg & 2mg & 4mg tablets		Suitable for initiation and continuation by primary care	
Prazosin	500microgram, 1mg & 2mg tablet		Suitable for initiation and continuation by primary care	
Tamsulosin hydrochloride	400microgram MR capsule		Suitable for initiation and continuation by primary care	
7.4.2 Drugs for urinary frequency, enuresis and incontinence				
Duloxetine	20mg & 40mg capsules		Suitable for initiation and continuation by primary care	
Fesoterodine	4mg & 8mg MR tablet		Suitable for initiation and continuation by primary care	
Finasteride	5mg tablet		Suitable for initiation and continuation by primary care	
Mirabegron	25mg prolonged release tablet	Approved as an option for the treatment of overactive bladder where anti-muscarinics are ineffective, contraindicated or cause unacceptable side effects Restricted: For prescription by consultants/ specialist trainees in gynaecology and urology only		
Oxybutynin hydrochloride	2.5mg & 5mg tablets; 5mg & 10mg MR tablets; 2.5mg in 5ml elixir; 36mg patch	Restriction: Patch restricted to Urology only	Suitable for initiation and continuation by primary care	
Propantheline bromide	15mg tablet		Suitable for initiation and continuation by primary care	
Solifenacin	5mg & 10mg tablets		Suitable for initiation and continuation by primary care	

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Tolterodine	1mg & 2mg tablet; 4mg MR capsule		Suitable for initiation and continuation by primary care	
Amitriptyline	10mg, 25mg & 50mg tablet; 50mg in 5ml oral solution		Suitable for initiation and continuation by primary care	
Desmopressin	100microgram & 200microgram tablets; 60microgram sublingual tablet (DDAVP Melt [®])		Suitable for initiation and continuation by primary care	
Imipramine	10mg & 25mg tablets		Suitable for initiation and continuation by primary care	
Trospium	20mg tablets, 60mg XL capsules (Regurin [®] XL)		Suitable for initiation and continuation by primary care	

7.4.3 Drugs used in urological pain

Diclofenac	12.5mg & 100mg suppositories; 75mg in 3ml injection		Suitable for initiation and continuation by primary care	
Lidocaine hydrochloride	Lidocaine hydrochloride 2% + Chlorhexidine gluconate 0.25% gel (Instillagel [®])		Suitable for initiation and continuation by primary care	
Pethidine hydrochloride	50mg in 1ml & 100mg in 2ml injection	Controlled Drug	Suitable for initiation and continuation by primary care	
Potassium citrate	1.5g in 5ml mixture	28mmol K ⁺ in 10ml	Suitable for initiation and continuation by primary care	
Sodium bicarbonate	200g powder		Suitable for initiation and continuation by primary care	
Sodium citrate	0.3 molar solution	Restricted: Delivery Suite only	Suitable for initiation and continuation by primary care	

7.4.4 Bladder instillations and urological surgery

Glycine	1.5% irrigation solution		Suitable for continuation by primary care	
Sodium chloride	0.9% irrigation solution		Suitable for continuation by primary care	

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7.4.5 Drugs for erectile dysfunction

Alprostadil	20mg injection; 10mg & 20mg dual chamber cartridge; 500mg & 1000mg urethral application		Hospital only. May be prescribed in Primary Care if patients meet the Schedule 2 criteria of the Drug Tariff	
Papaverine	30mg in 2ml injection [Unlicensed]		Hospital only	
Papaverine + Phentolamine	Papaverine 30mg + Phentolamine 1mg injection [Unlicensed]		Hospital only	
Sildenafil	50mg & 100mg tablets		Hospital only. May be prescribed in Primary Care if patients meet the Schedule 2 criteria of the Drug Tariff	
Tadalafil	5mg tablet		Hospital only. May be prescribed in Primary Care if patients meet the Schedule 2 criteria of the Drug Tariff	

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7.5 Other				
Indocyanine Green	25mg/10ml injection	Restricted: Urology Surgical consultants and registrars to delineate renal vasculature during superselective clamping of renal arteries during robot-assisted laparoscopic partial nephrectomy	Hospital only	
Taurolock ((Cyclo)-taurolidine 1.35%; Citrate 4%; Heparin 500 iu/ml)	Injection	For catheter lock between haemodialysis sessions Restriction: renal team only	Hospital only	
Xoneva® containing: Doxylamine and Pyridoxine	10mg and 10mg tablets	Third line agent Restricted: Obstetrics & Gynaecology	Suitable for initiation and continuation by primary care	

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Medicines Formulary

Chapter 8: Malignant Disease and Immunosuppression				
8.1 Cytotoxic drugs				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Treatment for cytotoxic-induced side-effects				
Urothelial toxicity				
Mesna (Uromitexan)	400mg & 600mg tablets	Prevention of haemorrhagic cystitis in those patients receiving high dose cyclophamide.	Hospital only	
8.1.2 Anthracyclines and other cytotoxic antibiotics				
Pixantrone	1g/20mL vials for injection	For monotherapy for the treatment of adult patients with multiply-relapsed or refractory aggressive non-Hodkin B cell lymphomas, according to NICE guidelines. Restricted to Consultant Haemato-Oncologist	Hospital only	
Bleomycin	15,000 units injection (1000 units/ml)	For sclerotherapy in adults with lymphatic and venous malformations Restricted to interventional radiology only	Hospital only	
8.1.3 Antimetabolites				
Pemetrexed	100mg and 500mg vials for injection	Restricted to patients with NSCLC adenocarcinoma or large cell carcinoma and would not be given to patients with NSCLC squamous type due to lack of evidence for benefit for patients with cancer of this cell type. Restricted: For prescription by Haemato-Oncology only	Hospital only	
8.1.5 Other anti-neoplastic drugs				
Arsenic Trioxide	10mg in 10ml ampoule	For the treatment of relapsed, refractory acute promyelocytic leukaemia.	Hospital only	

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Bevacizumab	100mg in 4ml or 400mg in 16ml vials	For first progression of metastatic triple receptor negative breast cancer or previously -taxane treated breast cancer. Restricted: For prescription by Haemato-Oncology only	Hospital only	
Cetuximab	100mg in 20ml and 500mg in 100ml vials	First line treatment of metastatic colorectal cancer in combination with chemotherapy in patients whose tumours are K-ras wild type. Restricted: For prescription by Haemato-Oncology only	Hospital only	
Dabrafenib	75mg or 50mg hard capsules	Unresectable or Metastatic Melanoma For adults with completely resected stage III melanoma that has a BRAF V600 mutation in combination with trametinib. Restricted: For prescription by Medical Oncology only	Hospital Only	
Dasatinib (Sprycel)	20mg, 50mg, 70mg tablets	Treatment of chronic accelerated or blast phase chronic myeloid leukaemia with resistance or intolerance to prior therapy including imatinib and treatment of Philadelphia chromosome positive acute lymphoblastic leukaemia and lymphoid blast CML with resistance or intolerance to prior therapy. Restricted: For prescription by Haemato-Oncology only	Hospital only	

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Everolimus	2.5-mg, 5-mg, 10-mg tablets and 1mg, 2mg, 3mg and 5mg dispersible tablets	<p>Restricted use For initiation by Epilepsy consultants under the advice of the Atkinson Morley Regional Epilepsy Network MDT or by the Renal Medicine team caring for patients with Tuberous Sclerosis only-For patients 16 years and over.</p> <p>Restricted use: Paediatric Neurology For patients aged 2 years and over.</p>	Hospital only	
Eribulin	880micrograms in 2ml vial	<p>Treatment of locally advanced or metastatic breast cancer after progressing at least 2 chemotherapy regimens for advanced disease. Prior treatments should include anthracycline and a taxane unless patient not suitable (i.e. 3rd or subsequent line).</p> <p>Restricted: For prescription by Haemato-Oncology only.</p>	Hospital only	
Erlotinib	150mg Tablet	<p>As an alternative second line regimen in place of docetaxel for patients with non-small cell lung cancer, according to NICE guidelines.</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital only	
Gefitinib	250mg tablet	<p>Treatment of EGFR mutation positive locally advanced or metastatic lung adenocarcinoma.</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital only	
Imbruvica® containing: Ibrutinib	140mg, 280mg & 420mg tablet.	<p>Restricted use: Haematology and Oncology Registrars and Consultants.</p>	Hospital Only	
Ipilimumab	50mg in 10ml and 200mg in 40ml vials	<p>Treatment of advanced (unresectable or metastatic) melanoma in adults who have received prior therapy.</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital only	

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Lapatinib	250mg tablet	Treatment of first progression of HER2 overexpressing metastatic breast cancer given in conjunction with capecitabine chemotherapy. Restricted: For prescription by Haemato-Oncology only	Hospital only	
Mitomycin C	0.4mg/ml solution	Recurrent tracheal stenosis Restricted to: Professor Brendan Madden	Hospital Only	
Nivolumab	100mg in 10mL injection; 40mg in 4mL injection	For the treatment of patients with previously treated advanced renal cell carcinoma, in accordance with NICE guidance [GID-TA10037] Restricted: For prescription by Haemato-Oncology only	Hospital only	
Nilotinib	150mg and 200mg Tablets	Treatment of adults with chronic phase and accelerated phase Philadelphia chromosome positive chronic myelogenous leukaemia with resistance or intolerance to prior therapy including imatinib. Restricted: For prescription by Haemato-Oncology only	Hospital only	
Nintedanib	100, and 150mg capsules	For patients with previously-treated, locally-advanced, metastatic, or locally recurrent non-small cell lung cancer Restricted: For prescription by Haemato-Oncology only	Hospital only	
Obinutuzumab	1000mg in 40ml injection	In combination with chlorambucil for untreated chronic lymphocytic leukaemia and with comorbidities, unsuitable for fludarabine and bendamustine based therapy Restricted: For prescription by Haemato-Oncology only	Hospital only	

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Medicines Formulary

Olaparib	50mg tablets	<p>Monotherapy, for use after 3rd line (or greater) platinum-based chemotherapy in patients with BRCA-mutated (germline and/or somatic), platinum-sensitive high-grade serous ovarian, fallopian tube or peritoneal cancer. (NICE TA381)</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital Only	
Palbociclib	75mg, 100mg, 125mg Capsules	<p>Restricted: For prescription by Oncology only</p> <p>Locally advanced or metastatic breast cancer (NICE TA495)</p>	Hospital Only	
Panobinostat	10mg, 15mg and 20mg Capsules	<p>For the treatment of adult patients with relapsed and/or refractory multiple myeloma who have received at least two prior regimens, including a proteasome inhibitor and an immunomodulatory agent.</p> <p>To be given in combination with bortezomib and dexamethasone.</p> <p>NICE TA380</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital Only	
Pembrolizumab		<p>Recommended as an option for treating advanced (unresectable or metastatic) melanoma in adults who have not been treated with ipilimumab before. (NICE TA 366) or</p> <p>For treating advanced (unresectable or metastatic) melanoma in adults who have progressed with ipilimumab and, for BRAF V600 mutation-positive disease, a BRAF or MEK inhibitor. (NICE TA 357)</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital Only	
Ribociclib	200mg tablet	<p>Restricted: Medical Breast Oncology</p>	Hospital Only	

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Medicines Formulary

Sorafenib	200mg tablet	For advanced renal cell carcinoma. Second line treatment in patients intolerant of or refractory to cytokine therapy with interferon alpha. Restricted: For prescription by Haemato-Oncology only	Hospital only	
Topotecan	250microgram and 1mg capsules	Treatment of relapsed small-cell lung cancer where re-treatment with the first-line regimen is not considered appropriate and the combination of cyclophosphamide, doxorubicin and vincristine (CAV) is contraindicated Restricted: For prescription by Haemato-Oncology only	Hospital only	
Trametinib	2mg and 0.5mg tablets	Unresectable or Metastatic Melanoma In combination with dabrafenib for adults with completely resected stage III melanoma that has a BRAF V600 mutation. Restricted: For prescription by Medical Oncology only	Hospital Only	
Tretinoin	10mg capsule	Induction of remission in acute promyelocytic leukemia. Restricted to haematology consultants.	Hospital only	

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Trifluridine/Tipiracil (LONSURF)		<p>For use as an option for treating metastatic colorectal cancer, that is:</p> <ul style="list-style-type: none"> •in adults who have had previous treatment with available therapies including fluoropyrimidine-, oxaliplatin- or irinotecan-based chemotherapies, anti-vascular endothelial growth factor (VEGF) agents and anti-epidermal growth factor receptor (EGFR) agents, or when these therapies are not suitable, and •only when the company provides trifluridine–tipiracil with the discount agreed in the patient access scheme. <p>NICE TA405</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital only	
Vemurafenib	240mg tablets	<p>Treatment of BRAF V600 mutation positive unresectable or metastatic melanoma.</p> <p>Restricted: For prescription by Haemato-Oncology only</p>	Hospital only	

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Medicines Formulary

8.2 Drugs affecting the immune response				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
8.2.1 Antiproliferative immunosuppressants				
Azathioprine	25mg & 50mg tablets		Suitable for initiation and continuation by primary care	
Mycophenolate mofetil	500mg tablet; 250mg capsule; 1g in 5ml suspension; 500mg injection	Restricted: Renal department only	Hospital only	
8.2.2 Corticosteroids and other immunosuppressants				
Antithymocyte immunoglobulin (Rabbit)	25mg injection	Restricted: Cardiology & Haematology consultants only	Hospital only	
Basiliximab	20mg injection	High Cost Drug	Hospital only	
Ciclosporin	50mg in 1ml & 250mg in 5ml injection Neoral [®] : 10mg, 25mg, 50mg & 100mg capsules; 100mg in 1ml oral solution	Prescribe oral ciclosporin by brand	Suitable for continuation by primary care	
Sirolimus	1mg tablet		Suitable for continuation by primary care	
Tacrolimus	500microgram, 1mg, 3mg & 5mg MR capsules (Advagraf [®]); 500microgram, 1mg & 5mg capsules (Prograf [®]); 500microgram, 1mg & 5mg capsules (Adoport [®]) 5mg in 1ml injection	Restricted: Renal consultants only	Suitable for continuation by primary care	

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Medicines Formulary

8.2.3 Anti-lymphocyte monoclonal antibodies				
Alemtuzumab	30mg in 1ml injection 12mg in 1.2ml Injection	High Cost Drug Indicated for adult patients with active relapsing-remitting MS defined by clinical (two relapses in two years) or radiological criteria according to NICE TA 312. Restricted: MS Specialist Consultant Neurologists	Hospital only	
Rituximab	100mg in 10ml & 500mg in 50ml injection	High Cost Drug	Hospital only	
8.2.4 Other immunomodulating drugs				
Aldesleukin	18million-unit injection	High Cost Drug Restricted: Oncology Consultants only	Hospital only	
Cladribine	10mg tablets	Restricted: MS Specialist Consultant Neurologists Highly active Multiple Sclerosis in adults.	Hospital Only The patient's GP will be informed that Cladribine therapy has been started. The patient will also receive a copy of the letter.	
Dimethyl Fumarate	120mg & 240mg capsules	Restricted: For use by Neurologists with sub-specialist interest in MS according to local protocol and NICE TA320 for the treatment of active relapsing remitting multiple sclerosis (RRMS), normally defined as patients who have had 2 clinically significant relapses in the past 2 years	Hospital only	

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Fingolimod	0.5mg capsule	Restricted: For use by Neurologists with sub-specialist interest in MS (Dr David Barnes, Dr Camilla Bain, Dr Damian Wren) according to local protocol and NICE TA254 for the treatment of highly active relapsing-remitting multiple sclerosis in adults if they have an unchanged or increased relapse rate or ongoing severe relapses compared with the previous year despite treatment with Beta interferon	Hospital only	
Glatiramer Acetate	40mg/mL solution for injection	Restricted: For use by Neurologists with sub-specialist interest in MS for the treatment of relapsing forms of multiple sclerosis	Hospital only	
Interferon alfa	IntronA®: 3megaunit, 5megaunit & 10megaunit injection Viraferon®: 18million unit multidose pen	High Cost Drug Prescribe by strength and brand	Hospital only	
Interferon beta	Avonex®: 30micrograms/0.5ml Pre-Filled Pen (via Homecare) Rebif®: 22micrograms and 44micrograms Solution for Injection Pre-Filled Pen (via Homecare)	High Cost Drug Restricted: For use by Neurologists with sub-specialist interest in MS for the treatment of relapsing forms of multiple sclerosis	Hospital only	
Lenalidomide	5mg, 7.5mg, 10mg, 15mg, 20mg & 25mg capsules	High Cost Drug	Hospital only	
Natalizumab	300mg injection	High Cost Drug	Hospital only	

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Peginterferon alfa	135microgram prefilled syringe	High Cost Drug Restricted: For use by Neurologists with sub-specialist interest in MS for the treatment of relapsing forms of multiple sclerosis	Hospital only	
Peginterferon Beta 1a	63, 94, and 125 micrograms solution for injection	Restricted: For use by Neurologists with sub-specialist interest in MS as a first line disease modifying treatment for relapsing remitting multiple sclerosis (RRMS) in adults aged 18 or over	Hospital only	
Teriflunomide	14mg tablets	For the treatment of active relapsing-remitting multiple sclerosis (RRMS) as a first-line agent, in addition to the beta interferons and glatiramer acetate. Restricted: For prescription by neurology consultants with a subspecialty interest in multiple sclerosis only High Cost Drug	Hospital only	

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Medicines Formulary

Ocrelizumab	300mg Infusion	<p>Ocrelizumab for treating relapsing-remitting multiple sclerosis</p> <p>Restricted: For prescription by neurology consultants with a subspecialty interest in multiple sclerosis only</p> <p>And</p> <p>Early primary progressive (PP) multiple sclerosis (MS) with imaging features characteristic of inflammatory activity</p>	Hospital only	
Thalidomide	50mg capsule	High Cost Drug	Hospital only	

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Medicines Formulary

8.3 Sex hormones and hormone antagonists in malignant disease

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
8.3.1 Oestrogens				
Diethylstilbestrol (Stilboestrol)	1mg tablet		Suitable for initiation and continuation by primary care	
Ethinylestradiol (Ethinylloestradiol)	10microgram tablet		Suitable for initiation and continuation by primary care	
8.3.2 Progestogens				
Medroxyprogesterone acetate	5mg, 10mg, 100mg, 400mg & tablets; 150mg in 1ml injection		Suitable for initiation and continuation by primary care	
Megestrol acetate	160mg tablet		Suitable for initiation and continuation by primary care	
Norethisterone	5mg tablet		Suitable for initiation and continuation by primary care	
8.3.4 Hormone antagonists				
8.3.4.1 Breast cancer				
Anastrozole	1mg tablet		Suitable for initiation and continuation by primary care	
Exemestane	25mg tablet		Suitable for initiation and continuation by primary care	
Fulvestrant	250mg/5mL prefilled syringe	<p>Treatment of postmenopausal women with oestrogen receptor positive, locally advanced or metastatic breast cancer for disease relapse on or after adjuvant anti-oestrogen therapy, or disease progression on therapy with an anti-oestrogen. 3rd or 4th Line.</p> <p>Restricted to oncology consultants.</p>	Hospital only	

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Medicines Formulary

Tamoxifen	10mg & 20mg tablet		Suitable for initiation and continuation by primary care	
8.3.4.2 Prostate cancer and gonadorelin analogues				
Abiraterone acetate	250 mg tablets	Restricted Use: Oncology Consultant and delegated Registrars in Medical Oncology	Hospital Only	
Bicalutamide	50mg tablet		Suitable for initiation and continuation by primary care	
Cyproterone acetate	50mg & 100mg tablets		Suitable for initiation and continuation by primary care	
Degarelix	120mg vial	For use by the Urology Care Group according to local protocol for first-line hormonal therapy in prostate cancer for new patients: <ul style="list-style-type: none"> Who present with emergency life threatening prostate cancer such as spinal cord compression, acute renal failure due to ureteric or bladder outlet obstruction Who need a rapid drop in testosterone such as bony metastases with disabling and severe pain Where LHRH agonists are contra-indicated such as patient with liver dysfunction or bone disease Who are allergic / cannot use anti-androgens to suppress the testosterone surge associated with LHRH agonist use Who are at risk of tumour flare 	Hospital only	
Flutamide	250mg tablet		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Leuprorelin	3.75mg & 11.25mg injection		Suitable for continuation by primary care	
Triptorelin	11.25mg injection (Decapeptyl® SR)		Suitable for continuation by primary care	

8.3.4.3 Somatostatin analogues

Lanreotide	60mg, 90mg and 120mg Solution for injection in a prefilled syringe	Restricted: Endocrinology and Oncology only For the treatment of patients with: <ul style="list-style-type: none"> Grade 1 and a subset of grade 2 (Ki67 index up to 10%) gastroenteropancreatic neuroendocrine tumours of midgut, pancreatic or unknown origin where hindgut sites of origin have been excluded, in adult patients with unresectable locally advanced or metastatic disease Symptoms associated with neuroendocrine tumours, particularly carcinoid tumours Acromegaly when circulating levels of growth hormone and/or insulin-like growth factor-I remain abnormal after surgery and/or radiotherapy, or in patients who otherwise require medical treatment 	Hospital only	
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Medicines Formulary

Octreotide	100microgram injection; 10mg, 20mg, & 30mg depot injection	High Cost Drug	Suitable for continuation by primary care	
Pegvisomant	10mg, 15mg, 20mg, 25mg, 30mg injection	For the 3 rd line treatment of Acromegaly in accordance with NHS England policy, including selection criteria, monitoring, stopping and reporting criteria	Hospital only	
Pituitary and hypothalamic hormones and analogues				
Degarelix	80mg Subcutaneous Injection	Restricted: Urology Locally Advanced or metastatic prostate cancer (NICE TA404)	Hospital Only	
Miscellaneous				
Afatinib	30, 40, and 50mg Tablets	For the treatment of non-small cell lung cancer in patients who have had evidence of benefit from erlotinib therapy but now progressing. Restricted to Prescribing by Oncology via Afatinib named patient program.	Hospital only	
Pegylated L-asparaginase (Oncaspar®)	3750 units in 5ml Injection	Treatment of Acute Lymphoblastic Leukaemia (ALL) in children and young adults Restricted to Oncology and Haematology	Hospital only	

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Medicines Formulary

Chapter 9: Nutrition and Blood

9.1 Anaemias and some other blood disorders

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
9.1.1 Iron-deficiency anaemias				
9.1.1.1 Oral iron				
Ferrous sulphate	200mg (65mg iron) tablet		Suitable for initiation and continuation by primary care	
Ferrous fumarate	210mg (68mg iron) tablet; 140mg in 5ml (45mg iron in 5ml) syrup		Suitable for initiation and continuation by primary care	
Ferrous fumarate with folic acid	Pregaday [®] tablets (100mg iron+350micrograms folic acid)		Suitable for initiation and continuation by primary care	
Ferrous gluconate	300mg (35mg iron) tablet		Suitable for initiation and continuation by primary care	
Sodium feredetate	190mg (27.5mg iron) in 5ml elixir		Suitable for initiation and continuation by primary care	
9.1.1.2 Parenteral iron				
Ferric carboxymaltose (Ferinject [®])	50mg/ml 2ml vial & 10ml vial injection	Restricted: Haematology, Gynaecology, Renal and Gastroenterology patients only Heart Failure Team (Cardiology) or if prescriber has a knowledge of heart failure Iron replacement in symptomatic patients with Heart Failure and Reduced Ejection Fraction (HFrEF) and iron deficiency in order to alleviate HF symptoms.	Hospital only	

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Medicines Formulary

Iron isomaltoside (Monofer®)	100 mg/mL solution for injection/infusion	Iron isomaltoside for treatment of pre- operative iron deficiency Restricted: Consultant Haematologist	Hospital Only	
Iron sucrose	100mg in 5ml injection (Venofer®)		Hospital only	
9.1.2 Drugs used in megaloblastic anaemias				
Hydroxocobalamin	1mg in 1ml injection		Suitable for initiation and continuation by primary care	
Folic acid	400microgram & 5mg tablets; 2.5mg in 5ml solution; 15mg in 1ml injection [Unlicensed]		Suitable for initiation and continuation by primary care	
9.1.3 Drugs used in hypoplastic, haemolytic and renal anaemias				
Darbepoetin alfa	10microgram, 20microgram, 30microgram, 40microgram, 50microgram, 60microgram & 100microgram injections (Aranesp®)	High Cost Drug	ospital only	
Deferasirox	125mg, 250mg, & 500mg tablets	High Cost Drug	Hospital only	
Desferrioxamine mesilate	500mg & 2g injections	High Cost Drug	Hospital only	
Epoetin alfa	1000units, 2000units, 3000units, 4000units, 5000units, 6000units, 40,000units, 10,000units injections (Eprex®)	High Cost Drug	Hospital only	
Epoetin beta	2,000units, 3,000units, 4,000units, 5,000units, 6,000units, & 10,000units injections (NeoRecormon®)	High Cost Drug	Hospital only	

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Medicines Formulary

Hydroxycarbamide (Hydroxyurea)	500mg capsule; 100mg in 1ml suspension		Suitable for initiation and continuation by primary care	
Methoxy polyethylene glycol-epoetin beta	30microgram in 0.3ml, 50microgram in 0.3ml, 75microgram in 0.3ml, 100microgram in 0.3ml, 120microgram in 0.3ml, 150microgram in 0.3ml, 200microgram in 0.3ml & 250microgram in 0.3ml injections (Mircera®)	High Cost Drug Restricted: Renal Unit only	Hospital only	
9.1.4 Drugs used in platelet disorders				
Anagrelide	500microgram capsule	Restricted: Consultant Haematologists only	Hospital only	
Eltrombopag	25mg & 50mg tablet	Restricted: Consultant Haematologists only For the treatment of splenectomised adult patients with immune (idiopathic) thrombocytopenic purpura (ITP) who are refractory to other treatments (e.g. corticosteroids, immunoglobulins). Eltrombopag may be considered as second line treatment for adult non-splenectomised patients where surgery is not indicated High Cost Drug	Hospital only	

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Medicines Formulary

Romiplostim	125 microgram injection 250 microgram injection	Restricted: Consultant Haematologists only For the treatment of adults with chronic immune (idiopathic) thrombocytopenic purpura whose condition is refractory to standard treatments and rescue therapies or who have severe disease and a high risk of bleeding that needs frequent courses of rescue therapies in accordance with NICE. High Cost Drug	Hospital only	
9.1.5 G6PD deficiency				
9.1.6 Drugs used in neutropenia				
Lenograstim	13.4million-units (105micrograms) & 33.6million-units (263micrograms) injections	Restricted: Consultant Haematologists only High Cost Drug	Hospital only	
9.1.7 Drugs used to mobilise stem cells				
Plerixafor	24mg in 1.2ml injection	Haematology Bone Marrow Transplantation Team for the mobilisation of haematopoietic stem cells for peripheral blood stem cell harvest to support high dose chemotherapy/autologous stem cell transplantation.	Hospital only	

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Medicines Formulary**9.2 Metabolic disorders**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
9.2.7 Hypophosphatasia				
Asfotase Alfa	Strensiq [®] 40 mg/ml solution for injection - 18mg, 28mg, 40mg vials Strensiq [®] 100 mg/ml solution for injection - 80mg vial	Rheumatology – Paediatric-onset hypophosphatasia NICE HST6	Hospital Only – Available via Homecare	

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Medicines Formulary

9.6 Minerals

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
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9.5.1 Calcium and Magnesium

Cacit® containing: Calcium carbonate	500mg effervescent tablet	Neonates and paediatric patients requiring oral calcium supplementation where a soluble dosage form is appropriate.	Suitable for initiation and continuation by primary care	
Etelcalcetide (Parsabiv®)	2.5mg in 0.5ml solution for injection 5mg in 1ml solution for injection 10mg in 2ml solution for injection	For the treatment of secondary hyperparathyroidism in adults with chronic kidney disease on haemodialysis where a calcimimetic is indicated but cinacalcet is not suitable because of lack of patient adherence to oral treatment sufficient to suppress PTH levels. NICE TA 448 Restriction: For prescription by renal consultants only	Hospital Only	

9.5.2 Phosphate

Lanthanum carbonate hydrate	500mg, 750mg & 1g chewable tablets and 750mg and 1g oral powder sachets	For the management of hyperphosphatemia in CKD (stages 4 or 5) Restriction: Nephrology only	Hospital Only	
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Medicines Formulary

Sevelamer Carbonate	800mg tablet	<p>Sevelamer is indicated for the control of hyperphosphataemia in adult patients receiving haemodialysis or peritoneal dialysis.</p> <p>Sevelamer is also indicated for the control of hyperphosphataemia in adult patients with chronic kidney disease not on dialysis with serum phosphorus ≥ 1.78 mmol/l.</p> <p>Restricted: Nephrology</p>	Hospital Only	
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Medicines Formulary

9.6 Vitamins

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
9.6.4 Vitamin D				
Adcal D3 (colecalciferol with calcium)	<p>Calcium carbonate 750mg + colecalciferol 5mcg caplets</p> <p>Calcium carbonate 1.5g + colecalciferol 10mcg chewable tablets</p> <p>Calcium carbonate 1.5g + colecalciferol 10mcg effervescent tablets</p>	<p>For duration of osteoporosis treatment/prohylaxis</p> <p>Use caplets when there is a risk of dental caries</p>	Suitable for initiation and continuation by primary care	
Colecalciferol	<p>800unit tablets</p> <p>25,000units/mL Oral solution</p> <p>50,000units/mL oral solution</p> <p>1000units/ml Oral Solution 30ml bottle (25 micrograms/ml)</p>	<p>For the management of vitamin D deficiency</p> <p>For Paediatric and NeoNatal Patients only</p>	Suitable for initiation and continuation by primary care	
Micellaneous				
Polycal®	Liquid	For Oral Glucose Tolerance Testing (OGTT) in paediatrics	Hospital Only	
Rapilose®	75g anhydrous glucose in 300ml solution	Restriction: Endocrine Investigation Unit – For Oral Glucose Tolerance Testing (OGTT) in Adults Only	Hospital Only	
Renavit®	Tablet	Renal patients on dialysis (mainly haemodialysis and peritoneal dialysis) with an increased tendency to loose water soluble vitamins	Suitable for initiation and continuation by primary care	

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9.9 Miscellaneous

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Sucrose (Sweet-Ease [®])	24% oral solution	Management of procedural pain in neonates and infants (birth to three months). Analgesic Effect. Restricted: Neonatal & Paediatrics	Hospital only	

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Medicines Formulary

Chapter 10: Musculoskeletal and Joint Diseases

10.1 Drugs used in Rheumatic Diseases and Gout

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
10.1.1 Non-steroidal anti-inflammatory drugs				
Celecoxib	100mg capsule		Suitable for initiation and continuation by primary care	
Diclofenac	25mg & 50mg EC tablet; 50mg dispersible tablet; 75mg & 100mg MR tablet; 12.5mg & 50mg suppository; 75mg in 3ml injection	Refer to BNF for CSM advice, CSM warning and CHM advice (section 10.1.1) Note- injection requires a buffer	Suitable for initiation and continuation by primary care	
Diclofenac with Misoprostol	Diclofenac 50mg + Misoprostol 200microgram tablet (Arthrotec [®] 50); Diclofenac 75mg + Misoprostol 200microgram tablet (Arthrotec [®] 75)		Suitable for initiation and continuation by primary care	
Flurbiprofen	50mg & 100mg tablets	Restricted: Moorfields Eye Hospital patients only	Suitable for initiation and continuation by primary care	
Ibuprofen	200mg & 400mg tablet; 100mg in 5ml suspension	Refer to BNF for CSM advice, CSM warning and CHM advice (section 10.1.1)	Suitable for initiation and continuation by primary care	
Indometacin	25mg & 50mg capsules; 75mg SR capsule; 100mg suppository		Suitable for initiation and continuation by primary care	
Mefenamic acid	500mg tablet; 250mg capsule		Suitable for initiation and continuation by primary care	
Meloxicam	7.5mg tablet		Suitable for initiation and continuation by primary care	
Naproxen	250mg & 500mg tablets; 250mg EC tablet		Suitable for initiation and continuation by primary care	
Piroxicam	20mg tablet (Feldene Melt [®])	Restricted: Dental outpatients & Day Case surgery	Suitable for initiation and continuation by primary care	

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Medicines Formulary

10.1.2 Corticosteroids				
10.1.2.1 Systemic corticosteroids				
Refer to section 6.3				
10.1.2.2 Local corticosteroid injections				
Betamethasone sodium phosphate	4mg in 1ml injection		Suitable for initiation and continuation by primary care	
Dexamethasone sodium phosphate	4mg in 1ml & 8mg in 2ml injections		Suitable for initiation and continuation by primary care	
Hydrocortisone acetate	25mg in 1ml injection		Suitable for initiation and continuation by primary care	
Methylprednisolone acetate	40mg in 1ml & 80mg in 2ml injections		Suitable for initiation and continuation by primary care	
Methylprednisolone with Lidocaine	Methylprednisolone 40mg + Lidocaine 10mg in 1ml injection; Methylprednisolone 80mg + Lidocaine 20mg in 2ml injection		Suitable for initiation and continuation by primary care	
Triamcinolone acetonide	40mg in 1ml intra-articular / intramuscular injection (Kenalog®); 50mg in 5ml intra-articular / intradermal injection (Adcortyl®)		Suitable for initiation and continuation by primary care	
10.1.3 Drugs that suppress the rheumatic disease process				
Azathioprine	25mg & 50mg tablets		Suitable for continuation by primary care	
Ciclosporin	50mg in 1ml & 250mg in 5ml injection Neoral® : 10mg, 25mg, 50mg & 100mg capsules; 100mg in 1ml oral solution	Prescribe oral ciclosporin by brand	Suitable for initiation and continuation by primary care	
Cyclophosphamide	50mg tablet		Suitable for continuation by primary care	
Hydroxychloroquine sulphate	200mg tablet		Suitable for continuation by primary care	
Leflunomide	10mg & 20mg tablets		Suitable for continuation by primary care	

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Medicines Formulary

Methotrexate	2.5mg tablet Prefilled syringe injections from 7.5mg to 25mg available – contact Technical Services		Suitable for continuation by primary care Injection= hospital only	
Penicillamine	125mg & 250mg tablets		Suitable for continuation by primary care	
Sodium aurothiomalate	10mg & 50mg in 0.5ml injections		Suitable for continuation by primary care	
Cytokine modulators				
Abatacept	250mg injection	Restricted: Rheumatology only High Cost Drug	Hospital only	
Adalimumab	40mg in 0.8ml injection	Restricted: Rheumatology, High Cost Drug	Hospital only	
Baricitinib	2mg, 4mg tablet	Restricted: Rheumatology (NICE TA 466)	Hospital Only	
Certolizumab	200mg injection	Restricted: Rheumatology only High Cost Drug	Hospital only	
Etanercept	25mg & 50mg injections	Restricted: Rheumatology only High Cost Drug	Hospital only	
Golimumab	50mg injection	Restricted: For the treatment of rheumatoid and psoriatic arthritis and ankylosing spondylitis for use by Rheumatology Consultants according to NICE. For the treatment and maintenance of moderate/severe ulcerative colitis (UC) refractory to or intolerant of conventional treatment for use by consultant gastroenterologists in accordance with NICE guidance	Hospital only	

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Medicines Formulary

Infliximab	100mg injection	Restricted: Rheumatology, High Cost Drug	Hospital only	
Ixekizumab (Taltz®)	80mg pre-filled injections	Restricted: Rheumatology and Dermatology Care Group	Hospital Only	
Rituximab	100mg in 10ml & 500mg in 50ml injection	High Cost Drug	Hospital only	
Sarulimab	80mg Pre-Filled Pen/Pre-Filled Syringe	Dermatology- Hospital Only Moderate to Severe Rheumatoid arthritis	Hospital Only	
Secukinumab	150mg/ml pre-filled pen	Restricted: Rheumatology only For treatment of active ankylosing spondylitis in adults whose disease has responded inadequately to conventional therapy, either non- steroidal anti- inflammatory drugs or TNF alpha inhibitors. Psoriatic Arthritis NICE TA (455)	Hospital Only	
Tocilizumab	80mg in 4ml, 200mg in 10ml & 400mg in 20ml injection 162mg prefilled syringe for subcutaneous injection	Restricted: Rheumatology only	Hospital only	
Ustekinumab	45mg in 0.5ml pre- filled syringe	Restricted: Rheumatology for Psoriatic Arthritis as per NICE TA(313)	Hospital Only	
Phosphodiesterase Type-4 Inhibitors				
Apremilast	10mg, 20mg, 30mg Tablets	Restricted: Rheumatology for Psoriatic Arthritis as per NICE TA(433).	Hospital Only	
Sulfasalazine				
Sulfasalazine	500mg tablet; 500mg EC tablet; 250mg in 5ml suspension		Suitable for continuation by primary care	

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Medicines Formulary

10.1.4 Gout and cytotoxic-induced hyperuricaemia

Allopurinol	100mg & 300mg tablets		Suitable for initiation and continuation by primary care	
Colchicine	500microgram tablet		Suitable for initiation and continuation by primary care	
Febuxostat	80mg, 120mg tablet	<p>Treatment option for management of chronic hyperuricaemia in gout only for patients:</p> <ul style="list-style-type: none"> Who are intolerant of allopurinol due to adverse effects that are sufficiently severe to warrant its discontinuation, or to prevent full dose escalation for optimal effectiveness Where allopurinol is contraindicated 	Suitable for initiation and continuation by primary care	
Probenecid	500mg tablet [Unlicensed]		Suitable for initiation and continuation by primary care	
Rasburicase	1.5mg & 7.5mg injections	High Cost Drug	Hospital only	
10.1.5 Other drugs for rheumatic diseases				
Hyaluronic acid	20mg in 2ml injection (Ostenil®)		Suitable for initiation and continuation by primary care	

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Medicines Formulary

10.2 Drugs used in Neuromuscular Disorders

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
10.2.1 Drugs that enhance neuromuscular transmission				
Edrophonium chloride	10mg in 1ml injection		Hospital only	
Neostigmine	2.5mg in 1ml injection		Hospital only	
Pyridostigmine bromide	60mg tablet		Suitable for initiation and continuation by primary care	
Fampridine	10mg tablets	For patients who wish to pay for this as private treatment	Not suitable for prescribing in primary care	
10.2.2 Skeletal muscle relaxants				
Baclofen	10mg tablet; 5mg in 5ml liquid; 50microgram in 1ml, 10mg in 5ml & 10mg in 20ml intrathecal injections	Intrathecal baclofen restricted to use in the Spasticity Clinic	Suitable for initiation and continuation by primary care Injection = Hospital only	
Dantrolene sodium	25mg & 100mg capsules; 20mg injection		Suitable for initiation and continuation by primary care	
Diazepam	2mg, 5mg & 10mg tablets; 2mg in 5ml oral solution; 5mg in 5ml oral solution; 2.5mg, 5mg & 10mg rectal solution; 10mg in 2ml injection; 10mg in 2ml emulsion injection (Diazemuls®)	The preferred parenteral formulation is the emulsion (Diazemuls®)	Suitable for initiation and continuation by primary care	
Phenol	5% in glycerol intrathecal injection [Unlicensed]	Restricted: Spasticity Clinic Only Unlicensed Formulary Medicine	Hospital only	
Quinine	200mg & 300mg tablets (as sulphate); 600mg in 2ml injection (as dihydrochloride) [unlicensed]	Note: Quinine (anhydrous base) 100mg \equiv quinine sulphate 121mg \equiv quinine dihydrochloride 122mg	Suitable for initiation and continuation by primary care	
Tizanidine	2mg & 4mg tablets		Suitable for initiation and continuation by primary care	

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Medicines Formulary

10.3 Drugs for the relief of Soft-Tissue Inflammation

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
10.3.1 Enzymes				
Collagenase clostridium Histolyticum (Xiapex [®])	900 microgram vial	Restricted: Plastics only for the treatment of palpable Dupuytren's cords causing digital flexion contractures in adults in accordance with local treatment pathway	Hospital only	
Hyaluronidase	1,500units (freeze dried powder) injection		Hospital only	
10.3.2 Rubefacients, topical NSAIDs, capsaicin, and poultices				
Capsaicin	0.025% cream		Suitable for initiation and continuation by primary care	
Hexyl nicotinate with ethyl nicotinate with tetrahydrofurfuryl salicylate	Transvasin [®] Heat Rub cream		Suitable for initiation and continuation by primary care	
Kaolin	Poultice 200g pack		Suitable for initiation and continuation by primary care	

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Medicines Formulary**10.4 Miscellaneous**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Eptotermin alfa (Bone Morphogenetic Protein-7)	Each vial contains 3.5mg of eptotermin alfa in a bovine collagen	Treatment of non-union fracture of tibia (or other long bone) of a least 9 month duration where previous treatment with autograft has failed or is unfeasible. Restricted: Orthopaedic surgeons only.	Hospital only	

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Medicines Formulary

Chapter 11: Eye

11.3 Anti-Infective Eye Preparations

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
11.3.1 Antibacterials				
Amikacin	2% eye drops; 500mg in 2ml preservative free injection	Restricted: Moorfields Eye Hospital only Intravitreal injection 0.4mg in 0.1ml 1. Take 2ml from a vial of preservative- free amikacin 250mg/ml (contains sodium citrate and bisulphite) 2. Make up to 10ml with normal saline = 50mg/ml 3. Discard 9 ml and make up remaining ml to 12.5ml with normal saline = 4mg/ml 4. 0.1 ml of this solution = 0.4mg	Suitable for continuation by primary care Injection = Hospital only	
Ampicillin	5% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	

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Medicines Formulary

Ceftazidime	5% preservative free eye drops; 1g injection	Restricted: Moorfields Eye Hospital only Intravitreal injection 2mg in 0.1ml 1. Reconstitute a 1g ceftazidime vial with 8ml of normal saline 2. Withdraw entire contents and make up to 10ml with normal saline = 100mg/ml 3. Inject 2ml back into the vial and add 8ml of normal saline = 20mg/ml 4. 0.1ml of this solution = 2mg	Suitable for continuation by primary care Injection = Hospital only	
Cefuroxime	5% preservative free eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	
Chloramphenicol	0.5% preservative free eye drops; 0.5% eye drops; 1% eye ointment		Suitable for initiation and continuation by primary care	
Chlorhexidine digluconate	0.02% eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Clarithromycin	2% eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Erythromycin	0.5% eye ointment	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	
Framycetin	0.5% eye drops (for donor eyes)	Restricted: Moorfields Eye Hospital only	Hospital only	
Fusidic acid	1% viscous eye drops		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Gentamicin	0.3% & 1.5% preservative free eye drops; 0.3% & 1.5% eye drops; 80mg in 2ml preservative free injection	Intravitreal injection 0.2mg in 0.1ml 1. Take 0.5ml from an ampoule/vial of preservative-free gentamicin 40mg/ml (contains disodium edetate and sodium metabisulphite) 2. Make up to 10ml with normal saline in a syringe = 2mg/ml 3. 0.1ml of this solution = 0.2mg	Suitable for initiation and continuation by primary care Injection = Hospital only	
Hexamidine	0.1% eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Levofloxacin	0.5% preservative free eye drops; 0.5% eye drops		Suitable for initiation and continuation by primary care	
Mitomycin	0.02% preservative free eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Moxifloxacin	0.5% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for initiation and continuation by primary care	
Penicillin	0.3% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	
Polihexanide (Polyhexamethylene biguanide)	0.02% & 0.06% eye drops (PHMB)	Restricted: Moorfields Eye Hospital only	Hospital only	
Polymyxin B Sulphate	Polymyxin B 10000units + Bacitracin zinc 500units/g eye ointment	Restricted: Moorfields Eye Hospital only	Suitable for initiation and continuation by primary care	
Povidone iodine	5% preservative free eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Propamidine isetionate	0.1% eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	

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Vancomycin	5% eye drops; 500mg injection	Restricted: Moorfields Eye Hospital only Intravitreal injection 2mg in 0.1ml 1. Reconstitute a 500mg vial with 8ml of normal saline 2. Withdraw entire contents and make up to 10ml with normal saline = 50mg/ml 3. Inject 2ml back into the vial and add 3ml of normal saline = 20mg/ml 4. 0.1ml of this solution = 2mg	Hospital only Injection = Hospital only	
11.3.2 Antifungals				
Amphotericin	0.15% eye drops; 50mg injection (Fungizone®)	Restricted: Moorfields Eye Hospital only Intravitreal injection 0.005mg in 0.1ml 1. Reconstitute a 50mg vial with 10ml of water for injections 2. Withdraw 1ml and make up to 10ml with water for injections = 0.5mg/ml; Discard 9ml 3. Make up remaining 1ml of this to 10ml in dextrose 5% = 0.05mg/ml 4. 0.1ml of this solution = 0.005mg	Suitable for continuation by primary care Injection = Hospital only	
Clotrimazole	1% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	
Econazole	1% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	

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Miconazole	1% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	
Natamycin	5% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for continuation by primary care	
Voriconazole	1% eye drops; 200mg injection	Restricted: Moorfields Eye Hospital only Intravitreal injection 0.05mg in 0.1ml 1. Reconstitute a 200mg vial with 19ml of water for injections 2. Withdraw 1ml and make up to 20ml with water for injections = 0.5mg/ml 3. 0.1ml of this solution = 0.05mg	Hospital only	
11.3.3 Antivirals				
Aciclovir	3% eye ointment		Suitable for initiation and continuation by primary care	
Ganciclovir	0.15% ophthalmic gel		Suitable for continuation by primary care	
Foscarnet	2.4mg in 0.1% intravitreal injection	Restricted: Moorfields Eye Hospital only	Hospital only	
Triflurothymidine	1% preservative free eye drops; 1% eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	

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11.4 Corticosteroids and other anti-inflammatory preparations

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
11.4.1 Corticosteroids				
Betamethasone	0.1% eye ointment; 0.1% drops (for ear, eye, or nose)		Suitable for initiation and continuation by primary care	
Betamethasone with neomycin (Betnesol-N [®])	Betamethasone sodium phosphate 0.1% + Neomycin sulphate 0.5% drops (for ear, eye, or nose)		Suitable for initiation and continuation by primary care	
Dexamethasone	0.1% preservative free eye drops; 0.1% eye drops		Suitable for initiation and continuation by primary care	
Dexamethasone with antibacterials	Dexamethasone 0.1% + Neomycin 0.35% + Polymyxin B sulphate 0.06% eye drops & eye ointment (Maxitrol [®])		Suitable for initiation and continuation by primary care	
Fluorometholone	0.1% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for initiation and continuation by primary care	
Hydrocortisone	0.5%, 1% & 2.5% eye ointment		Suitable for initiation and continuation by primary care	
Loteprednol etabonate	0.5% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for initiation and continuation by primary care	
Prednisolone	0.001%, 0.003%, 0.01%, 0.03%, 0.1% & 0.3% preservative free eye drops, 0.5% & 1% eye drops, 0.5% preservative free eye drops		Suitable for initiation and continuation by primary care	
Prednisolone with Neomycin	Prednisolone 0.5% + Neomycin 0.5% drops (for ear or eye)		Suitable for initiation and continuation by primary care	
Rimexolone	1% eye drops	Restricted: Moorfields Eye Hospital only	Suitable for initiation and continuation by primary care	
11.4.2 Other anti-inflammatory preparations				
Antazoline	Antazoline 0.5% + Xylometazoline hydrochloride 0.05% eye drops (Otrivine-Antistin [®])		Suitable for initiation and continuation by primary care	

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Nedocromil sodium	2% eye drops (Rapitol [®])		Suitable for initiation and continuation by primary care	
Olopatadine	0.1% eye drops (Opatanol [®])		Suitable for initiation and continuation by primary care	
Sodium cromoglicate (sodium cromoglycate)	2% eye drops		Suitable for initiation and continuation by primary care	

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11.5 Mydriatics and Cycloplegics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
11.5.1 Antimuscarinics and sympathomimetics				
Adrenaline (Epinephrine)	0.01% & 0.1% preservative free eye drops		Suitable for initiation and continuation by primary care	
Atropine sulphate	0.5% & 1% eye drops		Suitable for initiation and continuation by primary care	
Cyclopentolate hydrochloride	0.5% & 1% eye drops; 0.5% & 1% minims		Suitable for initiation and continuation by primary care	
Homatropine hydrobromide	1% & 2% eye drops; 2% minims		Suitable for initiation and continuation by primary care	
Hyoscine	0.5% eye drops		Suitable for initiation and continuation by primary care	
Phenylephrine hydrochloride	2.5% & 5% eye drops; 2.5% & 10% minims		Suitable for initiation and continuation by primary care	
Tropicamide	0.5% & 1% eye drops; 0.5% & 1% minims		Suitable for initiation and continuation by primary care	

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11.6 Treatment of Glaucoma				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
11.6 Treatment of glaucoma				
Beta-blockers				
Betaxolol hydrochloride	0.5% eye drops; 0.25% ophthalmic suspension		Suitable for initiation and continuation by primary care	
Carteolol hydrochloride	1% & 2% eye drops		Suitable for initiation and continuation by primary care	
Levobunolol hydrochloride	0.5% eye drops; 0.5% preservative free eye drops		Suitable for initiation and continuation by primary care	
Timolol maleate	0.25% eye drops; 0.25% & 0.5% preservative free eye drops; 0.25% & 0.5% gel-forming solution (Timoptol [®] -LA); 0.1% eye gel (Tiopex [®])		Suitable for initiation and continuation by primary care	
Prostaglandin analogues and prostamides				
Bimatoprost	0.01% & 0.03% eye drops (Lumigan [®])		Suitable for initiation and continuation by primary care	
Bimatoprost with Timolol	Bimatoprost 300micrograms/ml + Timolol 5mg/ml eye drops (Ganfort [®])		Suitable for initiation and continuation by primary care	
Latanoprost	50micrograms/ml eye drops (Xalatan [®])		Suitable for initiation and continuation by primary care	
Latanoprost with Timolol	Latanoprost 50micrograms + Timolol 5mg/ml eye drops (Xalacom [®])		Suitable for initiation and continuation by primary care	
Tafluprost	15micrograms/ml unit dose eye drops (Saflutan [®])		Suitable for initiation and continuation by primary care	
Travoprost	40micrograms/ml eye drops (Travatan [®])		Suitable for initiation and continuation by primary care	
Travoprost with Timolol	Travoprost 40micrograms + Timolol 5mg/ml eye drops (DuoTrav [®])		Suitable for initiation and continuation by primary care	
Sympathomimetics				
Brimonidine tartrate	0.2% eye drops		Suitable for initiation and continuation by primary care	

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Brimonidine with Timolol	Brimonidine 0.2% + Timolol 0.5% eye drops (Combigan®)		Suitable for initiation and continuation by primary care	
Carbonic anhydrase inhibitors and systemic drugs				
Acetazolamide	250mg tablet; 250mg SR capsule; 500mg injection		Suitable for initiation and continuation by primary care Injection = Hospital only	
Brinzolamide	10mg/ml eye drops (Azopt®)		Suitable for initiation and continuation by primary care	
Brinzolamide with Timolol	Brinzolamide 10mg + Timolol 5mg/ml (Azarga®)		Suitable for initiation and continuation by primary care	
Dorzolamide	2% eye drops		Suitable for initiation and continuation by primary care	
Dorzolamide with Timolol	Dorzolamide 2% + Timolol 0.5% eye drops (Cosopt®); Dorzolamide 2% + Timolol 0.5% preservative free unit dose eye drops (Cosopt®)		Suitable for initiation and continuation by primary care	
Miotics				
Pilocarpine	0.1%, 0.25%, 0.5%, 1%, 2%, 3%, 4%, 6% & 8% eye drops; 4% ophthalmic gel		Suitable for initiation and continuation by primary care	

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Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
11.7 Local anaesthetics				
Lidocaine with Fluorescein	Lidocaine hydrochloride 4% + Fluorescein sodium 0.25% eye drops		Hospital only	
Oxybuprocaine hydrochloride (Benoxinate hydrochloride)	0.4% eye drops		Hospital only	
Proxymetacaine hydrochloride	0.5% eye drops		Hospital only	
Proxymetacaine hydrochloride with Fluorescein	Proxymetacaine 0.5% + Fluorescein 0.25% eye drops		Hospital only	
Tetracaine hydrochloride (amethocaine hydrochloride)	0.5% & 1% minims eye drops		Hospital only	

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11.8 Miscellaneous Ophthalmic Preparations

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
11.8.1 Tear deficiency, ocular lubricants, and astringents				
Acetylcysteine	5% (+ Hypromellose 0.35%) eye drops (Ilube [®]); 5% & 10% preservative free eye drops		Suitable for initiation and continuation by primary care	
Carbomers (Polyacrylic acid)	0.2% liquid gel eye drops (Viscotears [®])		Suitable for initiation and continuation by primary care	
Carmellose sodium	0.5% & 1% single use eye drops (Celluvisc [®])		Suitable for initiation and continuation by primary care	
Ciclosporin	2% eye drops; 0.2% eye ointment [Unlicensed]		Suitable for continuation by primary care	
Hydroxypropyl guar	Systane [®] eye drops; Systane [®] single use eye drops		Suitable for initiation and continuation by primary care	
Hypromellose	0.3% eye drops (Tears Naturale [®]); 0.3% preservative free single use eye drops		Suitable for initiation and continuation by primary care	
Liquid paraffin	42.5% (+ WSP 57.3% + wool alcohols) eye ointment (Lacri-Lube [®])		Suitable for initiation and continuation by primary care	
Paraffin, yellow soft	Liquid paraffin 10%, wool fat 10%, in yellow soft paraffin ointment (Simple Eye Ointment [®])		Suitable for initiation and continuation by primary care	
Polyvinyl alcohol	1.4% eye drops (Liquifilm Tears [®])		Suitable for initiation and continuation by primary care	
Sodium chloride	0.9% eye drops; 0.9% minims		Suitable for initiation and continuation by primary care	
Sodium hyaluronate	0.1% preservative free eye drops (Hylo-Tear [®])		Suitable for initiation and continuation by primary care	
Subfoveal choroidal neovascularisation				
Bevacizumab	1.25mg in 0.05ml intravitreal injection	Restricted: Moorfields Eye Hospital only	Hospital only	

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Ranibizumab	2.3mg in 0.23ml intravitreal injection	Restricted: Moorfields Eye Hospital only	Hospital only	
Miscellaneous				
5-Fluorouracil	Contact Moorfields	Restricted: Moorfields Eye Hospital only Cytotoxic Drug	Hospital only	
Mitomycin C	Contact Moorfields	Restricted: Moorfields Eye Hospital only Cytotoxic Drug	Hospital only	
Potassium ascorbate	10% preservative free eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Potassium citrate	6.5% eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Sodium citrate	10.11% preservative free eye drops	Restricted: Moorfields Eye Hospital only	Hospital only	
Sodium chloride	5% preservative free eye drops; 5% eye ointment	Restricted: Moorfields Eye Hospital only Eye drops for corneal oedema; Eye ointment for recurrent corneal erosions	Hospital only	

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Chapter 12: Ear, Nose and Oropharynx

12.1 Drugs acting on the Ear

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
12.1.1 Otitis externa				
Anti-inflammatory preparations				
Betamethasone	0.1% drops		Suitable for initiation and continuation by primary care	
Betamethasone with antibacterial	Betamethasone sodium phosphate 0.1% + Neomycin sulphate 0.5% drops (Betnesol-N [®])		Suitable for initiation and continuation by primary care	
Dexamethasone with antibacterial	Dexamethasone 0.05% + Framycetin sulphate 0.5%+ Gramicidin 0.005% drops (Sofradex [®]) Dexamethasone 0.1% + Neomycin 3250units/ml ear spray (Otomize [®])		Suitable for initiation and continuation by primary care	
Flumetasone pivalate with antibacterial	Clioquinol 1% + Flumethasone 0.02% ear drops (Locorten-Vioform [®])		Suitable for initiation and continuation by primary care	
Hydrocortisone with antibacterial	Hydrocortisone acetate 1% + Gentamicin 0.3% ear drops (Gentisone HC [®]) Hydrocortisone acetate 1% + Neomycin 3400units + Polymyxin B sulphate 10,000 units per ml ear drops (Otosporin [®])		Suitable for initiation and continuation by primary care	
Prednisolone sodium phosphate	0.5% drops		Suitable for initiation and continuation by primary care	
Prednisolone with antibacterial	Prednisolone sodium phosphate 0.5% + neomycin 0.5% drops (Predsol-N [®])		Suitable for initiation and continuation by primary care	

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Anti-infective preparations				
Clioquinol with corticosteroid	See Locorten-Vioform [®]		Suitable for initiation and continuation by primary care	
Clotrimazole	1% ear solution (Canesten [®])		Suitable for initiation and continuation by primary care	
Framycetin sulphate with corticosteroid	See Sofradex [®]		Suitable for initiation and continuation by primary care	
Gentamicin	0.3% drops		Suitable for initiation and continuation by primary care	
Neomycin with corticosteroid	See Betnesol-N [®] , Otosporin [®] , Predsol-N [®] , & Otomize [®]		Suitable for initiation and continuation by primary care	
12.1.2 Otitis media				
12.1.3 Removal of ear wax				
Olive oil	100ml pack		Suitable for initiation and continuation by primary care	
Sodium bicarbonate	5% ear drop		Suitable for initiation and continuation by primary care	

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12.2 Drugs acting on the Nose				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
12.2.1 Drugs used in nasal allergy				
Azelastrine hydrochloride	140micrograms per dose nasal spray (Rhinolast [®])		Suitable for initiation and continuation by primary care	
Beclomethasone dipropionate	50microgram nasal spray		Suitable for initiation and continuation by primary care	
Betamethasone sodium phosphate	0.1% drops (for ear, eye, and nose)		Suitable for initiation and continuation by primary care	
Dymista [®] containing: Azelastrine hydrochloride and fluticasone propionate	1000 micrograms and 365 micrograms fluticasone propionate. Nasal Spray		Suitable for initiation and continuation by primary care	
Mometasone furoate	50micrograms per metered dose nasal spray (Nasonex [®])		Suitable for initiation and continuation by primary care	
Sodium cromoglicate (sodium cromoglycate)	4% nasal spray		Suitable for initiation and continuation by primary care	
12.2.2 Topical nasal decongestants				
Ephedrine hydrochloride	0.5% nasal drops; 1% nasal drops		Suitable for initiation and continuation by primary care	
Ipratropium bromide	20microgram per metered dose nasal spray		Suitable for initiation and continuation by primary care	
Xylometazoline hydrochloride	0.1% nasal drops; 0.05% paediatric nasal drops; 0.1% nasal spray		Suitable for initiation and continuation by primary care	
12.2.3 Nasal preparations for infection				
Betnesol-N [®]	Betamethasone sodium phosphate 0.1% + Neomycin sulphate 0.5% drops (for ear, eye, and nose)		Suitable for initiation and continuation by primary care	
Naseptin [®]	Chlorhexidine 0.1% + Neomycin 0.5% cream		Suitable for initiation and continuation by primary care	
Mupirocin	2% nasal ointment (Bactroban Nasal [®])		Suitable for initiation and continuation by primary care	

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12.3 Drugs acting on the Oropharynx				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
12.3.1 Drugs for oral ulceration and inflammation				
Benzydamine hydrochloride (Diffiam [®])	0.15% oral rinse; 0.15% spray		Suitable for initiation and continuation by primary care	
Betamethasone (Betnesol [®])	500microgram soluble tablet		Suitable for initiation and continuation by primary care	
Carmellose sodium	Orabase [®] paste		Suitable for initiation and continuation by primary care	
Hydrocortisone	2.5mg pellet		Suitable for initiation and continuation by primary care	
Lidocaine	10% spray		Suitable for initiation and continuation by primary care	
Salicylate	Choline salicylate 8.7% gel (Bonjela [®])		Suitable for initiation and continuation by primary care	
12.3.2 Oropharyngeal anti-infective drugs				
Fluconazole	50mg in 5ml & 200mg in 5ml oral suspension		Suitable for initiation and continuation by primary care	
Miconazole	2% oral gel		Suitable for initiation and continuation by primary care	
Nystatin	100,000 units in 1ml oral suspension		Suitable for initiation and continuation by primary care	
12.3.3 Lozenges and sprays				
12.3.4 Mouthwashes, gargles and dentifrices				
Chlorhexidine gluconate	0.2% mouthwash (mint & original flavour); 1% oral gel		Suitable for initiation and continuation by primary care	
Thymol	Mouthwash solution tablets		Suitable for initiation and continuation by primary care	
12.3.5 Treatment of dry mouth				
Biotene Oral Balance [®] (Saliva Replacement Gel)	50 g tube	Restricted: to the Oncology & Palliative Care Teams	Suitable for initiation and continuation by primary care	
Glandosane [®]	50ml aerosol spray		Suitable for initiation and continuation by primary care	
Pilocarpine hydrochloride	5mg tablet		Suitable for initiation and continuation by primary care	

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Miscellaneous

Gelclair [®]	Oral gel in 15mL sachets	Adjunct treatment in oral mucositis in stem-cell transplant and chemotherapy-induced mucositis patients and potentially in radiation-induced mucositis patients as well. Restricted: to Oncology and Transplant	Suitable for initiation and continuation by primary care	
Simeticone gel (Dentinox [®])	Lidocaine 0.33% w/w + Cetylpyridinium		Suitable for initiation and continuation by primary care	

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Medicines Formulary

Chapter 13: Skin

13.2 Emollient and barrier preparations

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.2.1 Emollients				
Aqueous cream	100g & 500g pack		Suitable for initiation and continuation by primary care	
Calmurid [®] cream	100g pack	Contains: urea 10%, lactic acid 5%	Suitable for initiation and continuation by primary care	
Cetaben [®]	500g cream	Second line after diprobase	Suitable for initiation and continuation by primary care	
Dermol [®] 500 Lotion	500ml pack		Suitable for initiation and continuation by primary care	
Diprobase [®] cream	50g & 500g pack	Contains: cetomacrogol 2.25%, cetostearyl alcohol 7.2%, liquid paraffin 6%, white soft paraffin 15%	Suitable for initiation and continuation by primary care	
E45 [®] emollient bath oil	500mL pack	Contains: cetyl dimeticone 5%, liquid paraffin 91%	Suitable for initiation and continuation by primary care	
Emulsifying ointment	500g pack		Suitable for initiation and continuation by primary care	
Epaderm [®] ointment	125g & 500g pack	Contains: yellow soft paraffin 30%, liquid paraffin 40%, emulsifying wax 30%	Suitable for initiation and continuation by primary care	
Hydrous ointment (oily cream BP)	500g pack		Suitable for initiation and continuation by primary care	
Liquid & White Soft Paraffin ointment [®]	250g & 500g pack	Contains: Liquid paraffin 50% + White soft paraffin 50%	Suitable for initiation and continuation by primary care	
Paraffin, Yellow Soft, BP	15g pack		Suitable for initiation and continuation by primary care	
Propylene glycol in Aqueous Cream	40%, 50% and 60% propylene glycol	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Urea in Aqueous Cream	Urea 20%	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Urea & Lanolin in Aqueous Cream	Urea 10% + Lanolin 10%	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	

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Medicines Formulary**13.2.2 Barrier preparations**

Metanium [®] ointment	30g pack	Contains: titanium dioxide 20%, titanium peroxide 5%, titanium salicylate 3% in a base containing dimeticone, light liquid paraffin, white soft paraffin, and benzoin tincture	Suitable for initiation and continuation by primary care	
Siopel [®] barrier cream (dimeticone '1000' 10%, cetrimide 0.3%, arachis (peanut) oil)	50g pack	For protection against water-soluble irritants	Suitable for initiation and continuation by primary care	
Sucralfate	4% ointment	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Sudocrem [®]	60g cream	First line treatment for damaged skin the nappy area	Suitable for initiation and continuation by primary care	

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Medicines Formulary

13.3 Topical local anaesthetics and antipruritics

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.3 Topical local anaesthetics and antipruritics				
Calamine	Calamine [®] lotion 200ml pack	Contains: calamine 15%, zinc oxide 5%, glycerol 5%, betonite 3%, sodium citrate 0.5%, liquefied phenol 0.5%	Suitable for initiation and continuation by primary care	
Crotamiton	10% cream (30g)		Suitable for initiation and continuation by primary care	
Menthol in aqueous cream	0.5%, 1% & 2%	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Lidocaine with Prilocaine (Emla [®])	5g cream	Contains: lidocaine 2.5% + prilocaine 2.5%	Suitable for initiation and continuation by primary care	
Tetracaine (Amethocaine) (Ametop [®])	4% gel; 4% gel with dressings		Suitable for initiation and continuation by primary care	

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13.4 Topical Corticosteroids

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.4 Topical corticosteroids				
Betamethasone valerate	0.025% cream & 0.025% ointment (Betnovate-RD [®]); 0.1% cream & 0.1% ointment & 0.1% lotion (Betnovate [®]); 0.05% scalp application (Betnovate [®])	Potency: 0.025% = moderate; 0.05% = potent; 0.1% = potent	Suitable for initiation and continuation by primary care	
Clobetasol propionate (Dermovate [®])	0.05% cream; 0.05% ointment; 0.05% scalp ointment	Potency: very potent	Suitable for initiation and continuation by primary care	
Clobetasone butyrate (Eumovate [®])	0.05% cream; 0.05% ointment	Potency: moderate	Suitable for initiation and continuation by primary care	
Fluocinolone acetonide (Synalar [®])	0.025% cream; 0.025% ointment; 0.025% gel	Potency: potent	Suitable for initiation and continuation by primary care	
Fludroxycortide (Flurandrenolone) (Haelan [®])	4micrograms/cm ² adhesive tape (7.5 x 200cm & 7.5 x 50cm)	For localised recalcitrant dermatoses (but not acute or weeping), cut tape to fit lesion, apply to clean, dry skin shorn of hair, usually for 12 hours daily	Suitable for initiation and continuation by primary care	
Hydrocortisone	0.5% & 1% cream; 0.5% & 1% ointment	Potency: mild	Suitable for initiation and continuation by primary care	
Mometasone furoate (Elocon [®])	0.1% cream; 0.1% ointment	Potency: potent	Suitable for initiation and continuation by primary care	
Nerisone Forte[®] containing: Diflucortolone Valerate	0.3% oily cream and 0.3% ointment	Restricted: Dermatology	Suitable for initiation and continuation by primary care	
Propylene glycol in clobetasol cream	40%, 50% & 60% Propylene glycol	Manufactured Special	Suitable for initiation and continuation by primary care	

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Triamcinolone (Tri- adacortyl [®] Substitute)	0.1% ointment	For use by ENT outpatients and ENT Operating Theatres for the treatment of: <ul style="list-style-type: none"> Acute or chronic eczematous inflammation in otitis externa Infected mastoid cavity Infected otitis externa with secondary severe canal stenosis 	Hospital Only	
With salicylic acid				
Betamethasone 0.05% + Salicylic acid 3% (Diprosalic [®]) ointment	100g pack	Potency: potent	Suitable for initiation and continuation by primary care	
With antimicrobials				
Betamethasone valerate 0.1% + Clioquinol 3% (Betnovate-C [®])	30g cream; 30g ointment	Potency: potent	Suitable for initiation and continuation by primary care	
Betamethasone valerate 0.1% + Neomycin 0.5% (Betnovate-N [®])	30g cream; 30g ointment	Potency: potent	Suitable for initiation and continuation by primary care	
Betamethasone valerate 0.1% + Fusidic acid 2% (Fucibet [®])	30g cream; 30g ointment	Potency: potent	Suitable for initiation and continuation by primary care	
Hydrocortisone 1% + Miconazole nitrate 2% (Daktacort [®])	30g cream; 30g ointment	Potency: mild	Suitable for initiation and continuation by primary care	
Hydrocortisone 1% + Fusidic acid 2% (Fucidin H [®])	30g cream; 30g ointment	Potency: mild	Suitable for initiation and continuation by primary care	
Clobetasone butyrate 0.05% + Oxytetracycline 3% + Nystatin 100,000 units/g (Trimovate [®])	30g cream	Potency: moderate	Suitable for initiation and continuation by primary care	
Other				
Crotamiton 10% + Hydrocortisone 0.25% (Eurax- Hydrocortisone [®])	30g cream	Potency: mild	Suitable for initiation and continuation by primary care	

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Medicines Formulary

13.5 Preparations for eczema and psoriasis

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.5.1 Preparations for eczema				
Alitretinoin	10mg & 30mg capsules	Restricted: Dermatology only High Cost Drug	Hospital only	
Cocoi [®] (coconut oil compound ointment)	100g scalp ointment	Contains: Coal tar solution 12%, Salicylic acid 2%, Sulphur 4%, in a coconut oil emollient	Suitable for initiation and continuation by primary care	
13.5.2 Preparations for psoriasis				
Acitretin	10mg & 25mg capsules	Restricted: Dermatology only	Hospital only	
Calcipotriol	50micrograms/g (0.005%) cream & ointment	Restricted: Dermatology only	Suitable for initiation and continuation by primary care	
Calcipotriol with betamethasone (Dovobet [®] gel, and Enstilar foam)	30g gel; 60g gel, 60g foam Contains: betamethasone (as dipropionate) 0.05% and calcipotriol (as monohydrate) 50mcg/g	Restricted: Dermatology only or on advice from Dermatology Consultants Not to be supplied in outpatient SGUH settings.	Suitable for initiation and continuation by primary care	
Coal Tar solution (LPC) in Yellow Soft Paraffin	1%, 2%, 5%, 10% & 20%	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Coal Tar solution (LPC) in Betnovate-RD [®] Ointment	5% & 10%	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Dithranol (Dithrocream [®])	0.1% cream		Suitable for initiation and continuation by primary care	
Salicylic acid in Aqueous Cream	1%, 2%, 3%, 5%, 10% & 20%	Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Salicylic acid in White Soft Paraffin	1%, 2%, 3%, 5%, 10%, 20%, 30%, 50%, 70 & 75%	Manufactured Special	Suitable for initiation and continuation by primary care	

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Medicines Formulary

13.5.3 Drugs affecting the immune response

Adalimumab	40mg in 0.8ml injection	Restricted: Dermatology only (for chronic plaque psoriasis, severe hidradenitis suppurativa) High Cost Drug	Hospital only	
Azathioprine	25mg & 50mg tablets	Restricted: Dermatology only	Suitable for continuation by primary care	
Brodalumab	210mg/1.5ml Pre-Filled Syringes	Restricted: Dermatology-moderate to severe plaque psoriasis (NICE TA511)	Hospital Only	
Certolizumab pegol (Cimzia®)	200 mg pre-filled pen or syringe	Certolizumab pegol for treatment of plaque psoriasis in adults Restricted: Dermatology Care group	Hospital Only	
Ciclosporin	50mg in 1ml & 250mg in 5ml injection Neoral® : 10mg, 25mg, 50mg & 100mg capsules; 100mg in 1ml oral solution	Prescribe oral ciclosporin by brand	Suitable for continuation by primary care Injection = Hospital only	
Dimethyl fumarate (Skilarence)	30mg and 120mg tablets	Restricted: Dermatology-Severe Plaque Psoriasis	Hospital Only	
Duplimumab	300mg/2ml Subcutaneous Injection	Restricted: Dermatology-moderate to severe atopic dermatitis in adult patients (NICE TA534)	Hospital Only	
Guselkumab	100mg/1ml Pre-Filled Syringe	Restricted: Dermatology-moderate to severe plaque psoriasis (NICE TA521)	Hospital Only	
Infliximab	100mg injection	Restricted: Dermatology only High Cost Drug	Hospital only	

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Ixekizumab	80mg Solution Pre-Filled Pens	Restricted: Dermatology only Plaque Psoriasis in adults with PASI >10 and DLQI >10 AND Failed to respond to or there is a contraindication to standard treatments including light therapy/methotrexate/ciclosporin or another biologic e.g. anti TNF therapy	Hospital only	
Methotrexate	2.5mg tablet Prefilled syringe injections from 7.5mg to 25mg available – contact Technical Services	Restricted: Dermatology only	Suitable for continuation by primary care Injection = Hospital only	
Risankizumab (Skyrizi®)	75 mg pre-filled syringe	Restricted: Dermatology Care group	Hospital Only	

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Secukinumab	150mg/mL prefilled pen and 150mg/mL prefilled syringe	Restricted: Dermatology For the treatment of patients who have plaque psoriasis and: <ul style="list-style-type: none"> • a Dermatology Life Quality Index (DLQI) of more than 10 and • Psoriasis Area Severity Index (PASI) of 10 or more • and have failed or have a contraindication/intolerance to standard systemic therapies e.g. light treatment, methotrexate and ciclosporin, or have failed another biologic therapy (adalimumab, etanercept, infliximab, ustekinumab). 	Hospital Only	
Tacrolimus	0.03% & 0.1% ointment	Restricted: Dermatology only	Suitable for continuation by primary care	
Tildrakizumab (Ilumetri®)	100 mg per mL pre-filled disposable syringe	Restricted: Dermatology Care group	Hospital Only	

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Ustekinumab	45mg in 0.5ml pre-filled syringe	Restricted: Dermatology for the treatment of Chronic Plaque Psoriasis according to local protocol	Hospital Only	
Miscellaneous				
Methoxypsoralen Puvasoralen® (Unlicensed Drug)	10mg tablet	Restricted: By dermatology consultants only For prescription in accordance with St John's phototherapy protocols As part of PUVA therapy for psoriasis, vitiligo, eczema, mycosis fungoides, polymorphic light eruption, acitinic prurigo & erythropoetic protoporphyria.	Hospital Only	
8- Methoxysporalen (PUVA) (Unlicensed)	0.005% Gel 1.2% Bath Lotion	Restricted to: Dermatology at Queen Mary Hospital Only	Hospital Only	

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13.6 Acne and rosacea				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.6.1 Topical preparations for acne				
Benzoyl peroxide (PanOxyl®)	2.5% & 5% aqueous gel		Suitable for initiation and continuation by primary care	
Clindamycin (Dalacin T®)	1% lotion; 1% topical solution		Suitable for initiation and continuation by primary care	
Duac Once Daily® containing: Benzyl peroxide and Clindamycin	3% and 1% gel 5% and 1% gel	Restricted: Dermatology	Suitable for initiation and continuation by primary care	
Epiduo® containing: Adapalene and Benzoyl Peroxide	0.1% (1 mg) and 2.5% (25mg)		Suitable for initiation and continuation by primary care	
Isotretinoin	0.05% gel	Restricted: Dermatology only	Suitable for initiation and continuation by primary care	
Metronidazole	0.75% gel	Restricted: Dermatology	Suitable for initiation and continuation by primary care	
Salicylic acid + Sulphur + Hydrocortisone in Cetomacrogol Cream	Salicylic acid 1 – 2%; Sulphur 1 – 2%; Hydrocortisone 1%	Restricted: Dermatology only Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Salicylic Acid + Sulphur in Cetomacrogol Cream	Salicylic acid 2%; Sulphur 2%	Restricted: Dermatology only Manufactured by Technical Services	Suitable for initiation and continuation by primary care	
Tretinoin (Retin-A®)	0.01% & 0.025% gel	Restricted: Dermatology only	Suitable for initiation and continuation by primary care	
13.6.2 Oral preparations for acne				
Co-cyprindiol (Dianette®)	Cyproterone acetate 2mg + Ethinylestradiol 35micrograms	Restricted: Dermatology only	Suitable for initiation and continuation by primary care	
Doxycycline	50mg & 100mg capsules; 100mg dispersible tablet		Suitable for initiation and continuation by primary care	

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Erythromycin	250mg tablet (base), 500mg tablet (stearate); 125mg in 5ml suspension (sugar free); 250mg in 5ml suspension (sugar free)		Suitable for initiation and continuation by primary care	
Isotretinoin	10mg and 20mg capsule	Isotretinoin should only be prescribed by or under the supervision of physicians with expertise in the use of systemic retinoids for the treatment of severe acne and a full understanding of the risks of isotretinoin therapy and monitoring requirements. Restricted: Dermatology	Hospital Only	
Lymecycline	408mg capsule		Suitable for initiation and continuation by primary care	
Minocycline	50mg & 100mg tablets; 100mg MR capsule		Suitable for initiation and continuation by primary care	
Oxytetracycline	250mg tablet		Suitable for initiation and continuation by primary care	
Trimethoprim	100mg tablet	Unlicensed indication	Hospital only	

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13.6.3 Topical preparations for rosacea

Brimonidine Tartrate Gel	3mg/g (30g tube)	For the treatment of telangectatic rosacea, where this is having a significant impact on quality of life Restricted: To be prescribed by dermatology consultants only	Suitable for continuation by primary care	
Daktarin® containing: Miconazole	2% cream	Restricted: Dermatology	Suitable for initiation and continuation by primary care	
Ivermectin	10mg/g cream	Used for Papulopustular acne rosacea in adults Restricted: To be initiated by dermatology consultants only	Suitable for continuation by primary care	

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Medicines Formulary

13.7 Preparations for warts and calluses

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.7 Preparations for warts and calluses				
Formaldehyde solution	4% & 5% (both 500ml)	Manufactured by Technical Services		
Imiquimod (Aldara [®])	5% cream	Restricted: Dermatology, Genitourinary Medicine & Oncology (for non-resectable melanoma) only	Hospital only	
Podophyllotoxin (Warticon [®])	0.15% cream	Restricted: Dermatology & Genitourinary Medicine only	Suitable for initiation and continuation by primary care	
Salicylic acid (Occlusal [®])	26% cutaneous solution		Suitable for initiation and continuation by primary care	
Silver Nitrate	75% caustic applicators	Restricted: Dermatology only	Suitable for initiation and continuation by primary care	

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Medicines Formulary

13.8 Sunscreens and camouflages

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.8.1 Sunscreen preparations				
Uvistat Ultrablock (ACBS)	SPF 30 cream	Restricted: Dermatology only	Suitable for initiation and continuation by primary care	
Photodamage				
5-aminolaevulinic (Ameluz®)	78mg/g gel	<p>Treatment of actinic keratosis (AK) of mild to moderate severity on the face and scalp (Olsen grade 1 to 2) and of field cancerization in adults.</p> <p>Treatment of superficial and/or nodular basal cell carcinoma (BCC) unsuitable for surgical treatment due to possible treatment-related morbidity and/or poor cosmetic outcome in adults.</p> <p>1st line for patients selected for photodynamic therapy for actinic keratosis and basal cell carcinoma.</p> <p>Restricted: Consultant or specialist dermatologist/Specialist dermatology nurse (independent prescriber)</p>	Hospital Only	
Fluorouracil (Efudix®)	5% cream		Hospital only	

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Ingenol Mebutate (Picato®) Gel	150micrograms/g x 3 single use tubes 500 micrograms/g x 2 single use tubes	Treatment of non- hyperkeratotic, non- hypertrophic actinic keratosis in adults Face/Scalp 150mcg/g gel – Once daily to a 25cm ² treatment area for 3 days Trunk/Extremities 500mcg/g gel – Once daily to a 25cm ² treatment area for 2 days	Hospital only	
Methyl-5- aminolevulinate (Metvix®)	16% cream	Restricted: Dermatology Consultants only High Cost Drug	Hospital only	

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Medicines Formulary

13.9 Shampoos and other preparations for scalp and hair conditions

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.9 Shampoos and other preparations for scalp and hair conditions				
Cocoi [®] (coconut oil compound ointment)	Scalp ointment	Contains: Coal tar solution 12%, Salicylic acid 2%, Sulphur 4%, in a coconut oil emollient	Suitable for initiation and continuation by primary care	
Coal Tar (Polytar [®])	150ml liquid		Suitable for initiation and continuation by primary care	
Diphencyprone [Unlicensed]	Variable dilutions kit	Restricted: Dermatology only	Hospital only	
Eflornithine (Vaniqa [®])	11.5% cream		Suitable for initiation and continuation by primary care	
Ketoconazole	2% (20mg in 1ml) shampoo		Suitable for initiation and continuation by primary care	
Selenium sulphide (Selsun [®])	2.5% shampoo		Suitable for initiation and continuation by primary care	

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Medicines Formulary**13.10 Anti-infective Skin Preparations**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.10.4 Parasitocidal Preparations				
Dimeticone	4% Lotion	For treatment of head lice	Suitable for initiation and continuation by primary care	
Fusidic acid	20mg/g cream	Restricted: Dermatology	Suitable for initiation and continuation by primary care	
Malathion	0.5% Liquid	For treatment of crab lice & head lice	Suitable for initiation and continuation by primary care	
Permethrin	5% Cream	For treatment of scabies & crab lice	Suitable for initiation and continuation by primary care	

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Medicines Formulary

13.11 Skin cleansers, antiseptics, and preparations for promotion of wound healing

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
13.11.1 Alcohols and saline				
Methylated spirit	Industrial methylated spirit 70%		Suitable for initiation and continuation by primary care	
Sodium chloride	0.9% solution; 0.9% sachets (Normasol[®])		Suitable for initiation and continuation by primary care	
13.11.2 Chlorhexidine salts				
Chlorhexidine acetate	0.05% sterile solution		Suitable for initiation and continuation by primary care	
Chlorhexidine gluconate	0.05% solution in sachets (Unisept[®]); 0.5% in Aqueous solution; 0.5% in 70% Alcoholic solution (Hydrex[®] clear); 1% cream (Hibitane Obstetric[®]); 4% cleansing solution (Hibiscrub[®])		Suitable for initiation and continuation by primary care	
13.11.3 Cationic surfactants and soaps				
Cetrimide	Chlorhexidine gluconate 0.015% + cetrimide 0.15% sachet (Tisept[®])		Suitable for initiation and continuation by primary care	
13.11.4 Iodine				
Povidone-iodine	2.5% dry powder spray; 10% antiseptic solution; 10% alcoholic tincture; 7.5% surgical scrub		Suitable for initiation and continuation by primary care	
13.11.5 Phenolics				
Triclosan	2% skin cleanser (Aquasept[®])		Suitable for initiation and continuation by primary care	
13.11.6 Oxidisers and dyes				
Hydrogen peroxide	3% solution ('10 volume solution'); Dilute E.P. Sterile Solution		Suitable for initiation and continuation by primary care	
Hydrogen peroxide (Crystacide)	1% cream	Restriction: For prescription by dermatology only.	Suitable for initiation and continuation by primary care	

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Potassium Permanganate	400mg solution tablets		Suitable for initiation and continuation by primary care	
Miscellaneous				
Octenidine hydrochloride	Octenisan [®] topical solution		Suitable for initiation and continuation by primary care	
Peracetic acid	81g powder		Suitable for initiation and continuation by primary care	
Sodium hypochlorite	1% available chlorine solution		Suitable for initiation and continuation by primary care	

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Medicines Formulary****14 Immunological Products and Vaccines****14.4 Vaccines and Antisera**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Rotarix	1.5ml pre-filled syringes	For infants at 2 months and 3 months of age as per national immunisation schedule	Suitable for initiation and continuation by primary care	

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Medicines Formulary

15 Anaesthesia

15.1 General Anaesthesia

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Desflurane			Hospital Only	
Dexmedetomidine	200 micrograms/2ml, 400 micrograms/4ml, 10000 micrograms/10ml ampoules,	<p>Restricted: To be initiated by ICU Consultants</p> <p>Restricted to patients:</p> <p>1. With apparent delirium (e.g. confusion, lack of cooperation) on sedation hold on ICU to support weaning off sedation and extubation</p> <p>2. Who are difficult to wean off the ventilator, partly due to behaviour and autonomic activation, who would otherwise require prolonged sedation and slow wean e.g. with a tracheostomy. Dexmedetomidine would support extubation and subsequent treatment with non-invasive ventilation</p>	Hospital Only	

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15.1.7 Antagonists for central and respiratory depression

Naloxone	400micrograms/mL Injection 2mg/2mL prefilled pen (Prenoxad [®])	For supply to patients or their representative, by Drug Alcohol Liaison Team (DALT) Specialist nurses who have completed training for prevention of overdose in patients who misuse illicit opiates	To supply at discharge by Drug Alcohol Liaison Team (DALT)	
Sugammadex	200mg in 2ml injection, 500mg in 5ml injection	To be used in theatres, day surgery and decontamination for the emergency rapid reversal of high dose rocuronium induced blockade, where rocuronium was used for modified rapid sequence induction. Ten ampoules each strength kept as stock in theatres. Cost absorbed by theatre budget on expiry.	Hospital Only	

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Medicines Formulary

15.2 Local anaesthesia

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Articaine 4% with adrenaline (Septanest®)	40 mg/mL with 5 microgram/mL 2.2 mL cartridge		Hospital only	
Bupivacaine	5mg/ml injection (Marcain Heavy®)		Hospital Only	
Bupivacaine and Adrenaline	Bupivacaine 0.25% with adrenaline 1:200,000 injection, bupivacaine 0.5% with adrenaline 1:200,000 injection		Hospital Only	
Levobupivacaine	2.5mg/ml injection, 5mg/ml injection, 1.25mg/ml infusion bag, 0.1% epidural bag with 5% fentanyl, 250mg bags, 0.1% levobupivacaine with 2% fentanyl, 250mg bags and 0.1% levobupivacaine with 2% fentanyl		Hospital only	

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Medicines Formulary

16 Imaging				
16.1 Contrast media				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Gadoteric acid (Dotarem®)	279.32mg/mL solution for injection (5mL, 10mL, 15mL, and 20mL vials)	Restricted to: Radiology Indicated in the detection of infection and mass lesions on T1 weighted imaging. Also used for contrast enhanced angiography	Hospital Only	
Gadobutrol (Gadovist®)	1mmol/ml for IV administration	Contrast agent for Cardiac MRI Scans (dose: 0.1mmol/Kg).	Hospital Only	
Gadoxetic acid (Primovist®)	1ml solution for injection contains 181.43mg gadoxetic acid, disodium, equivalent to 0.25 mmol Gd-EOB-DTPA disodium. Available in 10ml prefilled syringe	Indicated for the detection of focal liver lesions and provision of information on the character of lesions on T-1 weighted magnetic resonance imaging Restricted to: Radiology	Hospital Only	
Gastrografin	1 ml solution contains: 100 mg sodium amidotrizoate (sodium diatrizoate) and 660 mg meglumine amidotrizoate (meglumine diatrizoate).		Hospital Only	
Perflutren (Optison®)	perflutren-containing microspheres of heat treated human albumin, suspended in human albumin solution, 1% 0.19mg/ mL- Injection	Indicated for use as part of investigative procedure for Dobutamine Stress Echo (DSE) of Transthoracic echocardiogram (TTE). Restricted to Cardiology	Hospital Only	

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16.2 Prophylaxis in contrast media				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
N-acetyl cysteine	600mg capsule [unlicensed]	For use for 2 days before and after procedures as prophylaxis against contrast media renal insufficiency. Dose: 1.2g BD	Hospital Only	

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16.3 Miscellaneous				
Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
5-Aminolevulinic acid hydrochloride (Gliolan [®])	30 mg/ml - oral solution	Visualisation of malignant gliomas requiring complete surgical resection. 20 mg/kg orally Taken two to four hours before the patient is anaesthetised. Restricted to Neurosurgery consultants only: Mr Andrew Martin, Mr Simon Stapleton, Mr Henry Marsh, Mr Marius Papadopoulos.	Hospital Only	

**St George's University Hospitals NHS Foundation Trust
Medicines Formulary****17 Emergency treatment of poisoning****17.1 Chemical toxicity**

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
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Cyanide toxicity

Sodium nitrite 3%	3% = 30mg/mL ampoules	Cyanide poisoning angiography	Hospital Only	
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17.2 Drug toxicity

Cyproheptadine	4mg tablet	Serotonin syndrome	Hospital Only	
Fomepizole (Unlicensed)	1g in 1mL injection	1st line use: Ethylene glycol, diethylene glycol, methanol NB. Fomepizole is the antidote of choice	Hospital only	
Ethanol (<i>alcohol absolute</i>)	100% ethanol injection	2nd line use: Ethylene glycol, diethylene glycol, methanol NB. Fomepizole is the antidote of choice	Hospital only	

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Medicines Formulary

Appendix 5 Wound management products and elasticated garments

5.3 Antimicrobial Dressings

5.3.4 Other Antimicrobials

Formulary Item	Strength / Form	Restrictions and/or Advice	Arrangements for Shared Care	Documents and Links (only available to St George's staff)
Prontoderm [®] and Prontosan [®] (Polyhexanide)	<p>Prontoderm[®] Foam and Prontoderm[®] Gel Light (nasal preparation) supplied as a Prontoderm MRSA decontamination pack.</p> <p>Prontosan[®] Wound Irrigation Solution 350ml & 40ml (already in use in the trust - ordered through NHS supplies)</p>	<p>Restricted: On infection control recommendation only.</p> <p>To be used for patients with MRSA who are resistant to mupirocin and allergic to chlorhexidine and for decolonisation of minor wounds and sites with indwelling devices where mupirocin resistance is detected or the patient has a mupirocin allergy.</p> <p>The Prontoderm range is classed as cosmetics, and not medicines under a European license. It is indicated for "cleansing, care, moisture retention of skin and nose and MRSA decontamination".</p>	Suitable for initiation and continuation by primary care	