

The MHRA recommends that an unlicensed medicine should only be used when a patient has special requirements that cannot be met by use of a licensed medicine. Please note that any change or advice based on this information should be based on a medication review to ensure clinical appropriateness of therapy.
Please note that advice on options, is considered to be correct at time of writing but may be subject to change.

A	**GGC DERMATOLOGY SPECIALS	SCOTTISH DRUG TARIFF PART 7S JULY 18		SCOTTISH DRUG TARIFF PART 7U JULY 18
Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Acetylcysteine Eye Drops Preservative Free	LICENSED Ilube® 5% eye drops are available - but contain preservative.		Unlicensed Special Eye Drops	5% included in Part 7S of Scottish Drug Tariff
Acetylcysteine			Unlicensed Special Oral Solution 50mg/5ml, tablets, capsules and effervescent tablets available. Standard tablets preferred formulation (less expensive). Consider effervescent tablets if swallowing difficulties.	200mg sachets for oral solution, and tablets available. 600mg tablets, capsules and effervescent tablets available. Oral Solution 50mg/5ml available - consider effervescent tablets. Note - acetyl cysteine injection is restricted to specialist use only in GGC Formulary.
Adek plus tablets				Adek plus tablets included in Part 7U of Scottish Drug Tariff
Atlenronic Acid	LICENSED 70mg/100ml oral solution, and 70mg effervescent tablets (Binosto®) available			
Alfentanil Nasal Solution				5mg/5ml nasal solution spray included in Part 7S of Scottish Drug Tariff
Allopurinol		Crush tablets and mix with water. Give immediately.	Liquid Specials available	100mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff
Aluminium Acetate 13% Eardrops			Unlicensed Special Ear Drops	
Amiloride HCl	LICENSED 5mg/5ml SF Oral Solution available	Crush tablets and disperse in water. Give immediately.		
Amiodarone	No licensed solution	Crush tablets and disperse in water, can mix in fruit juice (to mask bitter taste). Give immediately	Liquid special suspensions of varying strength to suit dose required.	Note - restricted to specialist initiation in GGC Formulary. GGC paediatrics note - usually crush tablet.

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SCOTTISH DRUG TARIFF PART 7S JULY 18

SCOTTISH DRUG TARIFF PART 7U JULY 18

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Amisulpride	LICENSED 100mg/ml Oral Solution available		Use licensed product if possible - Unlicensed Special 25mg/5ml Oral Solution available	25mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff. Note - restricted to consultant psychiatrist initiation in GGC Formulary.
Amitriptyline	LICENSED liquid formulations 25mg/5ml and 50mg/5ml available. New LICENSED 10mg/5ml oral solution now available	Unlikely to need to do this		
Amlodipine	LICENSED 1mg/ml and 2mg/ml liquid available	Crush tablets and disperse in water. Use immediately as light sensitive		
Amphotericin Eye Drops Preservative Free			Unlicensed Special Eye Drops	Note - amphotericin is restricted to specialist use only in GGC Formulary.
Anoheal (Diltiazem 2% Cream)	NHS GG&C advises that licensed version of GTN ointment (Rectogesic®) available and should be considered prior to unlicensed special order for diltiazem			Consider GTN ointment or change to generic Diltiazem Cream
Antacid and Oxetacaine				Listed in Part 7U of Scottish Drug Tariff
Apixaban	Apixaban (Eliquis®) can be crushed and suspended in water, 5% dextrose in water (D5W), apple juice or apple puree for immediate oral administration. Eliquis® tablets may be crushed and suspended in 60ml of water or D5W for immediate administration through a NG tube. Crushed Eliquis® tablets are stable in water, D5W, apple juice or apple puree for up to 4 hours.			Refer to 'DOAC Prescribing in Patients with Non-Valvular AF and for the treatment and prevention of VTE Frequently Asked Questions' via http://www.ggcmedicines.org.uk/blog/mue-07-doac-prescribing/
Arovit Oral Drops 150,000 units/ml (vitamin A) (1 drop contains approx. 5000 units)				If appropriate - consider Healthy Start vitamins - Healthy Start Children's Vitamin Drops contain 233 micrograms of vitamin A, 20 milligrams of vitamin C, 7.5 micrograms of vitamin D3.
Ascorbic Acid	LICENSED tablets available	Standard tablets can be crushed and mixed with water	Unlicensed oral solution available.	
Atorvastatin	Consider LICENSED atorvastatin chewable tablets.	Atorvastatin can be crushed and mixed with water but not very soluble; residue left so incomplete dosing and may block tubes	Unlicensed solution available	

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Atropine Sulphate Eye Drops 1% P/F	LICENSED unit dose eye-drops available (Minims® Atropine Sulphate 1%)		Unlikely to need: licensed preparation available	Note - restricted to specialist initiation in GGC Formulary.
Aveeno				Aveeno Body Wash, Intense Relief Hand Cream, Moisturising Creamy Oil, Skin Relief Moisturising Lotion & Daily Moisturising Lotion included in Part 7U of the Scottish Drug Tariff
Azathioprine		No - Cytotoxic drug DO NOT CRUSH	NB: Carers handling the suspension should wear gloves in case of contact with the medication	50mg/5ml x 150ml Oral Suspension included in Part 7S of Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary.

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Bendroflumethiazide	No licensed solution	Crush tablets and mix with water. Give immediately.	Liquid special suspension available	2.5mg/5ml oral suspension x 150ml included in Part 7S of Scottish Drug Tariff
Benzalkonium Chloride Solution 1%				
Bepanthen				Bepanthen Nappy Care Ointment 5% included in Part 7U of Scottish Drug Tariff
Bio Melatonin (see Melatonin entry)			Unlicensed capsule, tablet and liquid preparations are available. GGC Shared Care Agreement for Melatonin states Melatonin immediate release: Generic melatonin capsules 3mg, 60 capsules per pack. • The capsules may be opened and the content mixed with small amounts of food or liquids such as water, juice or milk to help with ingestion. (Can then be administered via a NG tube or gastrostomy if required). See NEWT guidelines for more information.	Bio Melatonin® 3mg tablets, Melatonin 3mg tablets, Melatonin 3mg capsules, Melatonin 2mg capsules, Melatonin 10mg capsules and Melatonin MR 3mg tablets are included in Part 7U of Scottish Drug Tariff. Note - GGC Shared Care Agreement recommends Melatonin 3mg capsules.
Bioextra				
Bisoprolol	Consider switching to alternative beta-blocker if clinically appropriate : atenolol (available as LICENSED liquid) (NB. DO NOT switch if for Heart Failure)	Crush tablets finely and mix with water. Give immediately	Liquid special suspension available	2.5mg/5ml oral suspension x 150ml included in Part 7S of Scottish Drug Tariff. Note - if for use in Heart Failure, restricted to specialist initiation in GGC Formulary.
Blephagel				Blephagel eye gel 0.36% preservative free included in Part 7U of Scottish Drug Tariff
Blephasol				Blephasol preservative free lotion included in Part 7U of Scottish Drug Tariff

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**Cade Oil 12% in Yellow Soft Paraffin				Various preparations and sizes available
**Cade Oil 12%, Salicylic Acid 6% & Sulphur 6% in Emulsifying Ointment				Various preparations and sizes available
**Cade Oil 6%, Salicylic Acid 3% & Sulphur 3% in Emulsifying Ointment				Various preparations and sizes available
Calciferol	See Colecalciferol below			
Calcium Carbonate	LICENSED preparations available (Cacit effervescent tablets and calcichew chewable tablets).		Unlikely to need: licensed products available	250mg dispersible tablets, various strengths of oral suspension available as unlicensed specials.
Canesten/Betnovate 50:50				Topical steroids should not be diluted or mixed with any other products. Use licensed proprietary preparations e.g. use licensed strengths of topical steroids, recommend use of Lotriderm® instead of Betnovate®/Canesten® unlicensed mixture. Dilution of topical steroids is not recommended.
Captopril	LICENSED Captopril Oral Solution SF 5mg/5ml, 100ml and 25mg/5ml, 100ml available (Noyada®).	Captopril tablets: Crush and disperse in water. Captopril tablets have been given sublingually. To use this route the dose should be halved and given twice as frequently (i.e. 25mg twice daily becomes 12.5mg four times daily. Monitor blood pressure.		LICENSED Captopril Oral Solution SF 5mg/5ml and 25mg/5ml available from Martindale (Noyada®).

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Carbamazepine	LICENSED preparations available (liquid and suppositories)			In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Carbimazole		Crush tablets and disperse in water. Give immediately.	Unlicensed oral suspension available	
Carvedilol	Consider switching to alternative beta-blocker if clinically appropriate : atenolol (available as LICENSED liquid) (N.B. Do NOT switch if for Heart Failure)	Crush tablets and disperse in water. Give immediately.	Powder and suspension formulations available from PPU	Note - if for use in Heart Failure, restricted to specialist initiation in GGC Formulary.
Cefuroxime Eye Drops Preservative Free				Note - Cefuroxime Injection restricted to specialist initiation in GGC Formulary.
Cetaphil				Cetaphil Moisturising Cream and Cetaphil Gentle Skin Cleanser included in Part 7U of Scottish Drug Tariff
Chloral Hydrate	NB: drug considered less suitable for prescribing. Consider LICENSED Chloral Hydrate 143.3mg/5ml Elixir		Liquid specials available	500mg/5ml mixture x 200ml included in Part 7S of Scottish Drug Tariff.
Chlorothiazide		Tablets will disperse in water	Unlicensed liquid preparations available	
Chlorpromazine	LICENSED oral solutions available	Contact sensitisation: do NOT crush tablets	Unlikely to need: licensed products available	
Ciclosporin 0.2% Eye Ointment Preservative Free				Note - Ciclosporin for Ophthalmology, Dermatology or Rheumatology restricted to specialist initiation in GGC Formulary.

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Ciclosporin Eye Drops (Preservative Containing and Preservative Free)	LICENSED preservative containing product available - Ikervis® 1mg/ml 0.3ml emulsion in single dose units (30 unit doses £72.00)		Unlicensed 0.05% preservative free UDV (Restasis®) available	Note - Ciclosporin for Ophthalmology, Dermatology or Rheumatology restricted to specialist initiation in GGC Formulary.
Ciprofloxacin 0.3% ear-drops		Ciprofloxacin or ofloxacin eye drops used in the ear [unlicensed use] are an effective alternative to ototoxic ear drops for chronic otitis media in patients with perforation of the tympanic membrane. Licensed ciprofloxacin 0.3% ophthalmic solution (Ciloxan®) and licensed 0.3% ofloxacin ophthalmic solution (Exocin®) available..	Ciprofloxacin or ofloxacin ear drops (both unlicensed) are available from 'special-order' manufacturers or specialist importing companies	In view of reports of ototoxicity, manufacturers contra-indicate topical treatment with ototoxic antibacterials in the presence of a tympanic perforation or patent grommet. Ciprofloxacin or ofloxacin eye drops used in the ear [unlicensed use] or ear drops [both unlicensed; available from 'special-order' manufacturers or specialist importing companies] are an effective alternative to such ototoxic ear drops for chronic otitis media in patients with perforation of the tympanic membrane. Licensed ciprofloxacin 0.3% ophthalmic solution (Ciloxan®) and licensed 0.3% ofloxacin ophthalmic solution (Exocin®) available.
Ciprofloxacin 0.2% eye-drops (preservative-free) multidose	Licensed ciprofloxacin 0.3% ointment (Ciloxan®) and licensed levofloxacin preservative-free unit dose eye drops (Oftaquix®) are preservative free alternatives.		Ciprofloxacin 0.2%w/v PF multidose eye drops available.	Ciprofloxacin 0.2%w/v PF multidose eye drops - Not suitable for primary care. 24 hour in-use shelf-life as cannot be refrigerated.
Clindamycin		Open capsule and disperse contents in water or mix with grape juice or maple syrup (to mask unpleasant taste). Give immediately	Oral suspension available	
Clobazam	LICENSED oral suspensions available in various strengths: 1mg/ml(Perizam), 2mg/ml(Perizam), 5mg/5ml(Tapclob®), 10mg/5ml(Tapclob®)	Tablets can be dispersed or crushed and mixed with water, but unpleasant taste	Unlicensed strengths available.	Note - restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.

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Clomipramine HCl	Consider switching to alternative : amitriptyline, lofepramine, trazodone (available as LICENSED liquids)	Open capsule and disperse contents in water. DO NOT Crush the MR tablets.	50mg/5ml oral suspension available	Note - restricted to specialist initiation in GGC Formulary.
Clonazepam	Clonazepam 500mcg/5ml and 2mg/5ml oral solutions are available as LICENSED products	Tablets can be dispersed in water	2.5mg/ml oral drops available from Aclardian Specials and Martindale	Note - restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Clpidogrel		Tablets can be dispersed in water		75mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff
Clotrimazole 1% Eye Drops Preservative Free				28 day shelf life once opened - store in fridge
**Coal Tar in WSP				
**Coal Tar in YSP				Coal Tar Solution 2% in YSP, and Coal Tar Solution 5% in YSP included in Part 7S of Scottish Drug Tariff
**Coal Tar Paste	Consider switching to LICENSED, commercially available coal tar preparation if appropriate e.g. Carbo-Dome (coal tar 10%). Cocois scalp ointment (Coal Tar 12%, Salicylic acid 2%, precipitated sulphur 4%), Psoriderm cream (coal tar 6%, Lecithin 0.4%)			
**Coal Tar 2% with Salicylic Acid 2% in Emulsifying Ointment				
**Coal tar soln 5% Betameth Val. 0.025% Oint				Topical steroids should not be diluted or mixed with any other products. Use licensed proprietary preparations e.g. use licensed strengths of topical steroids, recommend use of Lotriderm® instead of Betnovate®/Canesten® unlicensed mixture. Dilution of topical steroids is not recommended.

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Co-careldopa	Consider switching to LICENSED Co-beneldopa - capsules/dispersible tablets.	Crush co-careldopa tablets and disperse in water. Give immediately as drug will oxidise. Do NOT crush MR tablets	Liquid special suspensions available of varying strengths to suit dose required.	6.25+25/5ml and 25+100/5ml oral suspension included in Part 7S of Scottish Drug Tariff
Cod Liver Oil				Cod Liver Oil capsules included in Part 7U of Scottish Drug Tariff
Co-dyramol	Consider switching to co-codamol effervescent tablets or paracetamol (available as soluble tablets, suspension and suppositories) or separate components (licensed paracetamol and licensed dihydrocodeine oral liquids)		Liquid special available - 10mg/500mg/5ml	SF Suspension 150ml
Colecalciferol Tablets/Capsules	<p>CHECK THE BNF FOR COST EFFECTIVE FORMULATIONS AND PREPARATIONS. LICENSED tablets available in various strengths - 400u, 1000u, 5000u, 20,000u (examples of brands listed in BNF - Aciferol D3, Cubicole D3, Desunin, E-D3, Iso D3, Stexerol-D3, SunVit D3. SPCs available for Desunin, Stexerol-D3).</p> <p>LICENSED capsules available in various strengths - 400u, 500u, 600u, 800u, 1000u, 2200u, 5000u, 20,000u (examples of brands listed in BNF - Aciferol D3, Aviticol, Cubicol D3, D-Max, E-D3, Fultium D3, Hux D3, OsteoCaps D3, Plenachol, Pro D3, Synervit D3. SPCs available for Aviticol, Fultium D3, Plenachol). Desunin tablets can be crushed and taken with food.</p>		Unlicensed special preparations in various strengths available	<p>Consider Healthy Start vitamins - Healthy Start Children's Vitamin Drops contain 233 micrograms of vitamin A, 20 milligrams of vitamin C, 7.5 micrograms of vitamin D3. Healthy Start Women's Vitamin Tablets contain 70 milligrams of vitamin C, 10 micrograms of vitamin D, 400 micrograms of folic acid. Fultium D3 3,200iu excluded from GGC Formulary. Invita D3 oral ampoules restricted to use only when other oral Vitamin D preparations are not suitable. See NHS GGC – Vitamin D Supplementation</p> <p>http://www.ggcprescribing.org.uk/blog/medicines-update-primary-care-february-2017/</p> <p>Vitamin D3 (Colecalciferol) 1000U tablets included in Part 7U of Scottish Drug Tariff</p>

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<p>Colecalciferol Oral Solution</p>	<p>CHECK THE BNF FOR COST EFFECTIVE FORMULATIONS AND PREPARATIONS LICENSED liquid preparations available in various strengths - 3000u/ml, 2000u/ml, 1000u/ml, 10,000u/ml, 25,000u/ml, 50,000u/ml (examples of brands listed in BNF - Aciferol D3, E-D3, Pro D3, Baby D, InVita D3, Thorens). SPCs available for InVita D3, Thorens). Oral drops available in various strengths - 200u/drops, 2400u/ml, 2740u/ml (example of brands listed in BNF - E-D3, InVita D3, Pro D3, Thorens, Fultium D3). SPCs available for InVita D3, Fultium D3, Thorens). Fultium D3 and InVita D3 may be mixed with a small amount of cold or lukewarm food immediately prior to use.</p>		<p>Unlicensed special liquids available. Commercial oral drop preparations available (not licensed as a medicine) - e.g. Healthaid Vitamin D3 200units/drop (15ml).</p>	<p>Consider Healthy Start vitamins - Healthy Start Children's Vitamin Drops contain 233 micrograms of vitamin A, 20 milligrams of vitamin C, 7.5 micrograms of vitamin D3. Healthy Start Women's Vitamin Tablets contain 70 milligrams of vitamin C, 10 micrograms of vitamin D, 400 micrograms of folic acid. See NHS GGC – Vitamin D Supplementation http://www.ggcprescribing.org.uk/blog/medicines-update-primary-care-february-2017/</p>
<p>Co-Proxamol</p>			<p>Tablets available</p>	
<p>Cyanocobalamin</p>	<p>LICENSED 50mcg tablets, 35mcg/5ml oral solution, 1mg/ml solution for injection available (note cyanocobalamin liquid, Cytacon® tablets, and Cyamen® injection not available on NHS prescription)</p>		<p>1mg tablets available as an unlicensed import.</p>	<p>Cyanocobalamin is considered in BNF as being less suitable for prescribing. Cyanocobalamin 50 microgram tablets included in Part 7U of Scottish Drug Tariff.</p>
<p>Cyclizine HCl</p>	<p>Consider switching to alternative anti-emetic: metoclopramide or domperidone (available as LICENSED liquids)</p>	<p>Crush tablets and disperse in water. Protect from light. Bitter taste</p>	<p>50mg/5ml oral solution available</p>	<p>Note - restricted to specialist initiation in GGC Formulary. Cyclizine 50mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff.</p>

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Dabigatran	Consider change to other DOAC if clinically appropriate. Rivaroxaban (Xarelto®) may be crushed and mixed with water or apple puree immediately prior to use and administered orally. The crushed tablet may also be given in a small amount of water via a gastric tube. Apixaban (Eliquis®) can be crushed and suspended in water, 5% dextrose in water (D5W), apple juice or apple puree for immediate oral administration. Eliquis® tablets may be crushed and suspended in 60ml of water or D5W for immediate administration through a NG tube. Crushed Eliquis® tablets are stable in water, D5W, apple juice or apple puree for up to 4 hours.	Dabigatran (Pradaxa®) capsules should be swallowed whole and NOT be opened due to increased bioavailability and consequent increased risk of bleeding.	no suggestions for unlicensed dabigatran	Refer to 'DOAC Prescribing in Patients with Non-Valvular AF and for the treatment and prevention of VTE Frequently Asked Questions' via http://www.ggcmedicines.org.uk/blog/mue-07-doac-prescribing/
Dantrolene	No licensed solution	Open capsule and disperse contents in water or mix with orange juice. Give immediately	Liquid special suspensions of varying strength to suit dose required.	25mg/5ml oral suspension x 200ml included in Part 7S of Scottish Drug Tariff. Note - restricted to specialist use only or specialist initiation (dependant on indication) in GGC Formulary.
Dekas Plus sf oral liquid				Dekas Plus sf oral liquid x 60 ml included in Part 7U of Scottish Drug Tariff
Dermacool				Included in Part 7U of Scottish Drug Tariff - 0.5%, 1%, 2% and 5% cream available
Dexamethasone	LICENSED liquid available: 2mg/5ml and 10mg/5ml	Crush tablets and disperse in water.	Unlikely to need; licensed products available. 500microgram/5ml liquid special available.	

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Dexamfetamine	LICENSED Dexamfetamine 1mg/ml oral solution available. Lisdexamfetamine dimesylate available as 30mg, 50mg and 70mg capsules (Elvanse®).	LICENSED Dexamfetamine 1mg/ml oral solution available from Martindale. Lisdexamfetamine dimesylate available as 30mg, 50mg and 70mg capsules (Elvanse®). May be swallowed whole, or capsule opened and contents dispersed in water. Use immediately.	Unlikely to need: licensed products available.	. Note - 30 mg lisdexamfetamine dimesylate is equivalent to 8.9 mg of dexamfetamine, 50 mg lisdexamfetamine dimesylate is equivalent to 14.8 mg of dexamfetamine and 70 mg lisdexamfetamine dimesylate is equivalent to 20.8 mg of dexamfetamine. Note - restricted to specialist initiation in GGC Formulary.
Diazepam	LICENSED preparations available (liquid, rectal tubes and suppositories).		Unlikely to need: licensed products available	2.5mg/5ml and 10mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff
Diazoxide	LICENSED 50 mg tablets available (Eudemine)		Unlicensed Diazoxide suspension available, 250mg/5ml. Suspension has a 60 day expiry and can be stored at room temperature. Suspension has a bitter taste.	
Diclofenac	LICENSED suppositories and dispersible tablets available		50mg/5ml oral liquid special available	
Diltiazem	No licensed solution	For non-MR tablets: crush & disperse (60mg tablets) Do NOT crush MR tablets. For MR Capsules: Open capsules and mix with soft food but DO NOT crush contents	Liquid special suspensions of varying strength to suit dose required.	
Diltiazem Hcl Cream/Gel/Ointment 2%	NHS GG&C advises that licensed version of GTN ointment (Rectogesic®) available and should be considered prior to unlicensed special order for diltiazem			Diltiazem 2% cream usually more cost effective than ointment. Diltiazem 2% cream included in part 7S of the Scottish Drug tariff

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Dipyridamole	LICENSED tablets and suspension available (licensed as an adjunct to oral anti-coagulation for prophylaxis of thromboembolism associated with prosthetic heart valves, so off-licensed use in CVA). If post ischaemic stroke consider switching to clopidogrel which can be crushed and mixed with water for administration (remember to stop aspirin).	Modified release capsules can be opened and the granules mixed with water, but must not be crushed. See NEWT guidelines for further information. LICENSED tablets and suspension available (licensed as an adjunct to oral anti-coagulation for prophylaxis of thromboembolism associated with prosthetic heart valves, so off-licensed use in CVA).	Unlikely to need: licensed products available. Unlicensed specials in differing strengths available.	
**Dithranol in Yellow Soft Paraffin	NHS GG&C recommends using LICENSED Dithrocream® products instead of unlicensed dithranol preparations.			Licensed Dithrocream® products are recommended instead of unlicensed dithranol preparations. Dithranol in Yellow Soft Paraffin is generally Hospital Only and it is recommended that Dithrocream® products are used in Primary Care.
**Dithranol in Lassar's Paste	NHS GG&C recommends using LICENSED Dithrocream® products instead of unlicensed dithranol preparations.			
Donepezil	Licensed orodispersible tablets 5mg and 10mg available. Licensed 1mg/ml oral solution available	Unlikely to be required. Tablets can be crushed and mixed with water for administration. Has a strong, bitter taste.		Note - Restricted to specialist initiation in GGC Formulary
Dosulepin	Dosulepin is no longer recommended for the treatment of depression due to the high risk of fatality in overdose and increased cardiac toxicity. Consider switching to alternative tricyclic antidepressant e.g. LICENSED amitriptyline liquid.		25mg/5ml and 75mg/5ml liquid specials available	
Doxazosin		Tablets disperse within 2 minutes in 10ml of water to give a coarse dispersion. Modified release tablets should not be crushed.	Unlicensed liquid specials available	
Doxycycline	LICENSED 100mg dispersible tablets available			

E

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
E45				E45 Dry Scalp Shampoo, E45 Junior Foaming Bath Milk and E45 Intense Recovery Lotion included in Part 7U of Scottish Drug Tariff
Emulsifying Wax Solution				3% solution included in Part 7S of Scottish Drug Tariff
Enalapril	No licensed solution	Crush tablets and disperse in water. Give immediately. Possible bitter aftertaste.	Liquid special suspensions of varying strength to suit dose required.	LICENSED ramipril 2.5mg/5ml suspension is available. LICENSED Captopril Oral Solution SF 5mg/5ml, 100ml and 25mg/5ml, 100ml available.
Entacapone		For swallowing difficulties tablets can be crushed and given in jam, honey or orange juice (the crushed tablets have a bitter taste). For use with enteral feeding tubes tablets can be dispersed in water within 1-5 minutes (dispersed tablets can stain feeding tubes - does not fully dissolve so tubes should be flushed after administration).	Unlicensed oral liquid available	
Eosin 2% Solution				Included in Part 7S of Scottish Drug Tariff
Ephedrine hydrochloride 0.25% Nasal Drops	LICENSED 0.5% product available			
Epistatus Oromucosal Solution and Buccal Pre-filled Syringe	LICENSED Epistatus Oromucosal pre-filled syringe 10 mg/ 1ml available			Unlicensed Epistatus 10mg/ml oromucosal solution (5ml vial), and Epistatus Buccal pre-filled syringes 2.5mg/0.25ml, 5mg/0.5ml, 7.5mg/0.75ml are included in Part 7U of Scottish Drug Tariff. Buccal midazolam is available as licensed Buccolam® products or as licensed and unlicensed Epistatus® products. GGC Formulary note - Restricted to specialist initiation in GGC Formulary. The two preparations are different strengths and may have different doses, therefore are not considered interchangeable. In light of these differences and the associated risks, any agreed change of preparation in existing patients would require careful management by all involved.

E

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Ergocalciferol	<p>NOT NORMALLY INITIATED IN PRIMARY CARE. See calciferol and colecalciferol entries. Licensed 50,000iu capsules available.</p>		Unlicensed oral solution and capsules available	
Ethinylestradiol	LICENSED 10microgram, 50microgram and 1mg tablets available		Unlikely to need	
Eucerin				Eucerin Dry Skin Relief 5% Face Cream With Urea, and Eucerin Dermo Capillaire Calming Urea Shampoo included in Part 7U of Scottish Drug Tariff

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**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Ferromate				Ferromate 210mg tablets included in Part 7U of Scottish Drug Tariff
Ferrous Sulfate	Consider switching to LICENSED Ironorm® Drops, Fersamal® syrup, Sytron® elixir or Galfer® syrup		Unlikely to need special oral solution: licensed products available. Ferrous Sulfate 60mg/5ml unlicensed oral solution and suspension available.	
Flecainide		Crush tablets and disperse in de-ionised water (do not use tap water). May have a local anaesthetic effect on the tongue. Use with care	Special liquid available	25mg/5ml x 300ml oral suspension included in Part 7S of Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary.
Fludrocortisone Acetate		Crush tablets and disperse in water. Give immediately.	Unlicensed Fludrocortisone Acetate liquid available	
Fluoxetine	LICENSED liquid available. LICENSED 20mg dispersible tablets available (Olena®). LICENSED 10mg tablets available.	Due to the long half-lives of fluoxetine and its active metabolite, consider the suitability of alternate day dosing with licensed doses of oral preparations rather than unlicensed preparations.	Unlikely to need: licensed products available.	
Folic Acid	LICENSED 2.5mg/ml and 5mg/5ml liquid preparations available	Crush tablets and disperse in water. Give immediately.	Unlikely to need: licensed products available	
Forceval	LICENSED Forceval capsules available.		Unlicensed Forceval Soluble and Forceval Soluble Junior tablets available	Forceval Soluble and Forceval Soluble Junior tablets included in Part 7U of Scottish Drug Tariff
Fosfomycin	LICENSED 3g sachets available		Unlicensed 3g sachets available but unlikely to need as licensed product available	Used in limited defined situations to treat infections not responsive to other antibiotics. GGC Formulary Note - restricted to use on the advice of microbiologists or infectious disease physicians.

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**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Furosemide	LICENSED liquids available: 20mg/5ml, 40mg/5ml and 50mg/5ml (NB: Sugar-free, Some brands contain alcohol)		Unlikely to need: licensed products available. Unlicensed 5mg/5ml oral liquid available	

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**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Gabapentin	50mg/ml LICENSED preparation available	Open capsule and dissolve contents in water or fruit juice or sprinkle onto food (to mask bitter taste). Use immediately as drug is rapidly hydrolysed	Liquid special suspensions of varying strength to suit dose required. Use licensed strength if possible.	Note - for Epilepsy restricted to specialist initiation in GGC Formulary. Use licensed strengths if possible. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Glibenclamide		Crush tablets and mix with water.		
Gliclazide		For non-MR tablets: Crush well and mix with water or orange juice.	Liquid special oral suspensions available.	40mg/5ml and 80mg/5ml liquid specials available
Glucoboost				Glucoboost 40% gel 75g (3 x 25g) included in Part 7U of Scottish Drug Tariff
Gluc juice				Included in Part 7U of Scottish Drug Tariff
Glucose in Glycerol Nasal Drops				
Glucotabs				Glucotabs - Blueberry Burst, Juicy Raspberry, Tangy Orange, Zesty Lemon and Lime are included in Part 7U of Scottish Drug Tariff
Glyceryl Trinitrate Ointment	NHS GG&C advises that licensed version of GTN ointment (Rectogesic®) available and should be considered prior to unlicensed special order for diltiazem		Unlicensed products available	Glyceryl Trinitate Ointment 0.2% included in Part 7S of Scottish Drug Tariff
**Glycopyrrolate in Water				Note - in anaesthesia restricted to specialist use only in GGC Formulary.
**Glycopyrrolate in Cetomacrogol Cream				

G

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Glycopyrronium bromide	LICENSED 1mg and 2mg tablets available. LICENSED 1mg/5ml oral solution available. Consider switching to hyoscine hydrobromide patches if appropriate.	If swallowing difficulties, the tablets can be crushed and mixed with water. See NEWT guidelines for more information.	Unlicensed liquid specials available.	Licensed tablets available from Morningside Healthcare via wholesalers. GGC paediatrics note - usually use 1mg and 2mg tablets.
Griseofulvin	LICENSED solution was available until FULSOVIN MARKETING AUTHORISATION REVOKED 23/01/13. Fluconazole also available as a LICENSED liquid	Drug is very insoluble so tablets are unsuitable to be crushed for administration. Consider alternative treatment.	LICENSED solution was available until FULSOVIN MARKETING AUTHORISATION REVOKED 23/01/13. Unlicensed special products 125mg/5ml and 175mg/5ml available.	

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**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Haloperidol	LICENSED liquids available: 1mg/ml & 2mg/ml	Open capsule and disperse contents in water.	Unlikely to need - licensed products available (5mg/5ml and 10mg/5ml). Liquid special available in 1mg/5ml strength	Note - if for essential tremor, chorea, tics etc restricted to specialist initiation in GGC Formulary.
Hepa Merz (Granulat) 3000mg sachets (L-Ornithine-L-Aspartate)				
Hydrochlorothiazide	Consider LICENSED bedroflumethiazide		Unlicensed tablets available	Consider LICENSED bedroflumethiazide
Hydrocortisone		Crush tablets and disperse in water (NB: insoluble)	Unlicensed liquid preparations available	10mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff. GGC paediatrics note - usually use tablets.
Hydroxocobalamin	Consider LICENSED hydroxocobalamin injection 1mg/ml or LICENSED cyanocobalamin tablets 50 micrograms, oral liquid 35micrograms/5ml or injection		Unlikely to need oral liquid special	Unlicensed Oral Mixture 15mg/5ml, 200ml available
Hydroxycarbamide			Unlicensed 500mg/5ml suspension available	Caution - the capsules are cytotoxic and should not be opened.
Hydroxychloroquine		Crush tablets and mix with water.	Liquid special suspensions and powder available	Note - restricted to specialist initiation in GGC Formulary.
Hyoscine butylbromide	LICENSED 10mg tablets and 20mg/ml solution for injection available	Injection solution may be used for administration by mouth. See NEWT guidelines for further information. Hyoscine butylbromide tablets should not be crushed.	Unlicensed hyoscine butylbromide 10mg/5ml oral suspension available	

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SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Hyoscine Hydrobromide	Consider switching to hyoscine hydrobromide (Scopoderm) 1.5mg patch if appropriate.	Tablets may be sucked or dispersed in water for administration via enteral tube, although levels of absorption may vary with these methods.	Liquid special available	Note - injection restricted to specialist use only in GGC Formulary.
Hypromellose Eye Drops Preservative Free	Use 0.3% as LICENSED preparations are available. If preservative free required, Tear-Lac hypromellose 0.3%, 10ml, preservative free LICENSED non unit dose product is recommended. LICENSED Hydromoor™ (hypromellose) 0.3% single dose units are available from Moorfields. LICENSED PF Drops Hypromellose™ 0.3% eye drops also available		Unlikely to need: licensed products available	0.25% P/f drops 10ml included in Part 7S of the Scottish Drug Tariff

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SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
**Ichthammol 1% and Zinc Oxide 15% in YSP (Special Ointment No1)				Included in Part 7S of the Scottish Drug Tariff
**Ichthammol 10% Ointment				
**Ichthammol 1% in Calamine Liniment				
Ichthammol 1% in YSP				Included in Part 7S of the Scottish Drug Tariff
Imipramine HCl	LICENSED liquid available: 25mg/5ml oral solution	Crush tablets and mix with water.		
Indometacin	LICENSED suppositories available. Consider switching to paracetamol (available as soluble tablets, suspension and suppositories) or an alternative NSAID (ibuprofen suspension 100mg/5ml, diclofenac soluble tablets or suppositories). (NB: consider GI/CV safety of different NSAIDs)	DO NOT crush tablets or open capsules: irritant.	Unlikely to need: licensed products available. Unlicensed oral suspension available.	Note - if for Ductus Arteriosus, restricted to specialist use only in GGC Formulary.
Isoniazid Oral SF Solution				Included in Part 7S of the Scottish Drug Tariff
Irbesartan	No licensed solution. Consider changing to licensed ACEI or A2RA oral solution.	Crush tablets and mix with water for immediate oral administration		
Isosorbide Mononitrate	Consider changing to GTN patch	Standard release tablets can be crushed and dispersed in water. May have an increased rate of absorption. Theoretical potential for explosion but no reports. Do not crush MR tablets.	Unlicensed solution available	

K

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Ketamine	LICENSED solution for injection available - ketamine for IV anaesthesia is restricted to specialist use only in GGC Formulary.		Unlicensed oral preparations available	50mg/5ml oral solution included in Part 7S of the Scottish Drug Tariff. Note - ketamine for IV anaesthesia is restricted to specialist use only in GGC Formulary.

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**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Lansinoh				Lansinoh Ointment included in Part 7U of Scottish Drug Tariff
Lansoprazole	LICENSED orodispersible product available - Zoton FasTabs®. The tablet rapidly disperses in the mouth. Alternatively, the tablet can be swallowed whole with a drink of water. The orodispersible tablets can be dispersed in a small amount of water and administered via a naso-gastric tube or oral syringe. For patients with difficulty swallowing, the capsules may be opened and the granules mixed with a small amount of water, apple/tomato juice or sprinkled onto a small amount of soft food (e.g. yoghurt, apple puree) to ease administration. See SPC and NEWT guidelines for more information.			Note - orodispersible restricted to specialist initiation in GGC Formulary for patients with narrow bore feeding tubes.
L-Arginine			Unlicensed L-Arginine 1.25g capsules, 100mg/1ml oral solution, 500mg tablets and 5g injection available	
Larvae				Supplied as unlicensed product via Community Pharmacy in GGC
**Lassar's Paste				
Levomepromazine		Crush tablets and disperse in water.	Liquid specials of various strengths available.	6mg unlicensed tablets available (used in palliative care)
Levothyroxine	LICENSED liquid formulations of various strengths available. Monitor thyroid function.	Crush tablets and mix with water.	Unlikely to need unlicensed Oral Solution: licensed products available.	Unlicensed 25mcg/ml (125mcg/5ml) oral solution available. GGC paediatrics note - usually do not use liquids.

L

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Lidocaine gel	LICENSED 5% ointment available or consider switch to Emla cream (lidocaine 2.5% & prilocaine 2.5%) or Instillagel (lidocaine 2% & chlorhexidine 0.25%)		Unlicensed preparations available	Note - Lidocaine (as local anaesthetic) restricted to specialist use only in GGC Formulary. Lidocaine medicated plaster, total formulary, restricted to patients who are intolerant of first-line therapies or in whom these therapies have been ineffective. LMX4 cream restricted to use in hospital only in GGC Formulary.
Lisdexamfetamine dimesylate	Available as LICENSED 30mg, 50mg and 70mg capsules (Elvanse®). LICENSED Dexamfetamine 1mg/ml oral solution available	Capsule may be swallowed whole, or capsule opened and contents dispersed in water or orange juice, or mixed with a soft food such as yogurt. Use immediately.		LICENSED Dexamfetamine 1mg/ml oral solution available. - see Dexamfetamine entry. Note - 30 mg lisdexamfetamine dimesylate is equivalent to 8.9 mg of dexamfetamine, 50 mg lisdexamfetamine dimesylate is equivalent to 14.8 mg of dexamfetamine and 70 mg lisdexamfetamine dimesylate is equivalent to 20.8 mg of dexamfetamine. Note - restricted to specialist initiation in GGC Formulary. GGC paediatrics note - now use licensed Lisdexamfetamine.
Lisinopril	LICENSED lisinopril 5mg/5ml oral solution (sugar-free) available	Tablets can be dispersed in water.	UNLICENSED suspensions available in differing strengths	
Lofepamine	LICENSED liquid 70mg/5ml available.	Tablets are NOT suitable for crushing		Licensed liquid product available: 70mg/5ml oral suspension (Lomont®)
Loperamide	LICENSED liquid 1mg/5ml available.		Unlikely to need: licensed products available	
Lorazepam	Consider switching to diazepam if appropriate as LICENSED liquid available.	Crush tablets and mix with water. Give immediately. Tablets may be given sublingually if patient has sufficiently moist mouth	Liquid special suspensions of various strengths available.	1mg/5ml and 500microgram/5ml oral suspensions included in Part 7S of the Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary.
L-Ornithine-L-Aspartate			Available as Hepa-Merz Granulat 3000 granules sachets	
Losartan	LICENSED liquid available: 2.5mg/ml powder for suspension (Cozaar)	Crush tablets and disperse in water. Give immediately	Unlicensed liquid specials available	

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SCOTTISH DRUG TARIFF PART 7U JULY 18

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Magnesium glycerophosphate (tablets/capsules)	There is a licensed magnesium preparation available - Magnaspartate®. See entry for Magnaspartate®. If the licensed product is not effective or is poorly tolerated, eg dose limiting diarrhoea, it would be reasonable to try an alternative unlicensed oral preparation, if the patient's condition allows.		Magnesium glycerophosphate 4mmol tablets, 2mmol capsules and 0.4mmol capsules available. Magnaphate® (magnesium glycerophosphate 4 mmol (97mg Mg2+) tablets may be chewed or crushed and mixed with water. Unlicensed 1mmol/ml oral solution available	Note - the licensed magnesium preparation, Magnaspartate® is on the GGC Formulary. It is important to establish the underlying cause of the hypomagnesaemia, rather than simply treating the deficiency. Caution should be exercised when switching between magnesium preparations due to differing bioavailability. (NB: Magnaphate® tablets are gluten-free). Note - Magnesium glycerophosphate 5mmol/5ml oral suspension included in Part 7S of Scottish Drug Tariff.
Magnesium Glycerophosphate Oral Suspension	There is a licensed magnesium preparation available - Magnaspartate®. See entry for Magnaspartate®. If the licensed product is not effective or is poorly tolerated, eg dose limiting diarrhoea, it would be reasonable to try an alternative unlicensed oral preparation, if the patient's condition allows.		Magnaphate® (magnesium glycerophosphate 4 mmol (97mg Mg2+) tablets available. May be chewed or crushed and mixed with water. Unlicensed 1mmol/ml oral solution available	Note - the licensed magnesium preparation, Magnaspartate® is on the GGC Formulary. It is important to establish the underlying cause of the hypomagnesaemia, rather than simply treating the deficiency. Caution should be exercised when switching between magnesium preparations due to differing bioavailability. Magnesium glycerophosphate 5mmol/5ml oral suspension included in Part 7S of Scottish Drug Tariff.
Magnaspartate®	Licensed Magnaspartate® 243mg powder for oral solution. Each 6.5 g sachet of powder contains magnesium aspartate dihydrate equivalent to 243 mg (10 mmol) magnesium. Magnaspartate® can be dissolved in 50-200mL water, tea or orange juice. Stir solution in water until cloudy to transparent. In orange juice or tea inactive particles visible. Should be taken immediately after preparation.			Note - the licensed magnesium preparation, Magnaspartate® is on the GGC Formulary. It is important to establish the underlying cause of the hypomagnesaemia, rather than simply treating the deficiency. Caution should be exercised when switching between magnesium preparations due to differing bioavailability.
Mebeverine	LICENSED liquid available.		Unlikely to need: licensed products available	
Megestrol Acetate (tablets)	LICENSED 160mg tablets available		Unlicensed 160mg and 40mg tablets available	160 mg tablets currently on short supply

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Megestrol Acetate (suspension)			Unlicensed suspension, various strengths and quantities available	
Melatonin Tablets/Capsules	Licensed melatonin product, Circadin®, is available. Circadin® is a prolonged release formulation of melatonin 2mg tablets. It is licensed for the treatment of primary insomnia in adults over 55 years of age for up to 13 weeks. Unlicensed immediate-release preparations may be more suitable for children. Liquid formulations of melatonin are expensive and are obtained from 'specials' manufacturers.		Unlicensed capsule, tablet and liquid preparations are available. GGC Shared Care Agreement for Melatonin states Melatonin immediate release: Generic melatonin capsules 3mg, 60 capsules per pack. • The capsules may be opened and the content mixed with small amounts of food or liquids such as water, juice or milk to help with ingestion. (Can then be administered via a NG tube or gastrostomy if required). See NEWT guidelines for more information. Note - please refer to GGC Shared Care Agreement. Oct 2017	Melatonin 3mg Capsules, Melatonin 3mg tablets, Melatonin 2mg Capsules, Melatonin 10mg capsules, melatonin MR 3mg Tablets & Bio-Melatonin 3mg tablets, are included in Part 7U of Scottish Drug Tariff. Note - GGC Shared Care Agreement Oct 2017 recommends Melatonin 3mg capsules.
Melatonin Oral Liquid			Unlicensed capsule, tablet and liquid preparations are available. Melatonin 3mg standard capsules can be opened and mixed with water, milk, yoghurt or fruit juice. See NEWT guidelines for more information.	Melatonin 1mg/ml oral solution is included in Part 7S of the Scottish Drug Tariff. GGC paediatrics note - usually do not use liquid.
Menadiol	LICENSED 10mg tablets available	Tablets can be crushed and mixed with water or food. See NEWT guidelines for further information.	Unlicensed 5mg/5ml oral suspension available	
**Menthol in Aqueous Cream				
Mepacrine				Note - GPs are recommended to discuss advice to patients and ongoing blood monitoring arrangements with hospital specialist prior to prescribing this medicine. *NB: supply problems noted April 2015.*
Mercaptopurine	LICENSED - Xaluprine® 20mg/ml oral suspension . LICENSED 50mg tablets.	No - Cytotoxic drug DO NOT OPEN CAPSULES	Unlicensed 10mg tablets and varying strengths of oral liquid available	Note - if for inflammatory bowel disease restricted to specialist initiation, if for cancer restricted to specialist use only in GGC Formulary. *Mercaptopurine tablets and oral suspension are not bioequivalent - haematological monitoring is advised when switching formulations.*
Metformin	LICENSED 500mg/5ml liquid available.		Unlikely to need: licensed products available	

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Methyldopa		Crush tablets and mix with water. NB: Tablets are film coated and not very soluble, and have an unpleasant taste		
Methotrexate Injection	LICENSED product available			Note - if for Rheumatology (Metoject®) restricted to specialist initiation in GGC Formulary, if for other indications - specialist use only.
Methotrexate	LICENSED 2mg/ml oral solution available	No - Cytotoxic drug DO NOT CRUSH	Unlicensed 10mg/5ml special liquid product available	Note - If for cancer restricted to specialist use only in GGC Formulary, if for other indications, restricted to specialist initiation.
Metoclopramide	LICENSED 5mg/5ml product available	Crush tablets and mix with water. Give immediately. Do not crush MR tablets.		
Metolazone		Tablets can be crushed and mixed with water	Unlicensed metolazone tablets available. If swallowing difficulties, the tablets can be crushed and mixed with water. N.B. monitor the patient for postural hypotension due to increased bioavailability. A dose reduction may be necessary. See NEWT guidelines for more information.	
Metoprolol	Consider switching to alternative beta-blocker: atenolol (available as LICENSED liquid)	For non-MR tablets: Crush and disperse in water. NB: disperses very slowly. DO NOT Crush the MR tablets.	Unlicensed liquid and powder products available in various strengths	
Metronidazole	LICENSED suspension, suppositories, intravenous infusion available.		Unlikely to need: licensed products available	See NEWT guidelines for more information.
Mexiletine			Unlicensed capsules available.	Capsules can be opened contents mixed with distilled water.
Miconazole 1% Eye Drops Preservative Free				28 day shelf life once opened - store at room temp

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**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Midazolam (Oromucosal vial and Buccal Pre-filled Syringe)	<p>Buccal midazolam is available as licensed Buccolam® products (Buccolam® 5mg/ml - available in 2.5mg, 5mg, 7.5mg and 10mg pre-filled oral syringes) or as licensed and unlicensed Epistatus® products (licensed Epistatus® 10mg/ml oromucosal pre-filled syringes and unlicensed Epistatus® 10mg/ml oromucosal solution (5ml vial), and Epistatus® Buccal pre-filled syringes 2.5mg/0.25ml, 5mg/0.5ml, 7.5mg/0.75ml)</p> <p>GGC Formulary note - The two preparations are different strengths and may have different doses, therefore are not considered interchangeable. In light of these differences and the associated risks, any agreed change of preparation in existing patients would require careful management by all involved. Please note that patients should remain on the same product to ensure consistency as they are not interchangeable.</p>		Available as 10mg/ml (5ml vial), and various strengths of syringe	<p>10mg/1ml oromucosal solution (5ml vial) and 2.5mg/0.25ml, 5mg/0.5ml, 7.5mg/0.75ml included in Part 7S of the Scottish Drug Tariff.</p> <p>Buccal midazolam is available as licensed Buccolam® products or as licensed and unlicensed Epistatus® products. GGC Formulary note - Restricted to specialist initiation in GGC Formulary. The two preparations are different strengths and may have different doses, therefore are not considered interchangeable. In light of these differences and the associated risks, any agreed change of preparation in existing patients would require careful management by all involved.</p> <p>Caution** The translucent tip-cap of BUCCOLAM prefilled syringes can on occasion remain attached to the syringe tip when pulling off the red cap with the risk of being detached into the patients mouth and inhaled or ingested upon administration. If the tip-cap remains on the syringe, it needs to be removed manually before administration.</p>
Midazolam (liquid)			Unlicensed 1mg/ml and 2.5mg/ml liquid available	
Midodrine	LICENSED Midodrine (Bramox®) 2.5mg and 5mg tablets available	If swallowing difficulties, the tablets can be crushed and mixed with water.		
Mirtazapine	LICENSED preparations available (solution and orodispersible tablets)	Standard tablets can be crushed and mixed with water for administration via enteral tubes. May not fully dissolve so flush tube well with water. For swallowing difficulties, use orodispersible tablets or liquid as crushed tablets have a bitter taste and anaesthetic effect on the mouth. See NEWT guidelines for more information.	Unlikely to need: licensed products available	
Modafinil		Crush tablets and mix with water. Give immediately.	Unlicensed oral suspension available	Note - restricted to specialist initiation in GGC Formulary.
Morphine	LICENSED preparations available (solution, sachets and suppositories)	Morphine sulphate MR capsules (Zomorph): Capsules can be opened and the contents sprinkled on to food e.g. yoghurt or jam, but DO NOT crush contents - see NEWT guidelines for info	Unlikely to need: licensed products available	
Multivitamin				Multivitamin One-A-Day tablets included in Part 7U of Scottish Drug Tariff

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SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

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Nadolol	Could consider switching to an alternative beta-blocker (e.g. atenolol (which is also available as LICENSED liquid)). Discuss this with the patient's specialist or GP.	Tablets can be crushed and dispersed in water	Unlicensed oral suspension and imported Nadolol 40mg tablets available	
Naltrexone	LICENSED 50mg tablets available		Unlicensed special liquid and capsule products available in various strengths	1mg/ml liquid included in Part 7S of the Scottish Drug Tariff. Unlicensed Naltrexone Capsules available. Note - restricted to specialist initiation in GGC Formulary.
Naproxen	LICENSED 25mg/ml oral suspension available.	Crush standard tablets and disperse in water.	Unlicensed oral suspension in various strengths available	
Nifedipine	Short acting formulations of nifedipine are not recommended for angina or long term management of hypertension.	Consider switching to amlodipine: crush amlodipine tablets and disperse in water. Give immediately (light sensitive).	Unlicensed oral suspension available	GGC paediatrics note - usually use 20mg/ml drops available via IDIS.
Nitrazepam	LICENSED 2.5mg/5ml liquid available. Alternatively, consider switching to temazepam (LICENSED liquid available)		Unlicensed 5mg/5ml suspension available	
Nitrofurantoin	LICENSED liquid formulation available. (NB. Oral suspension significantly more expensive than tablets/capsules)	For non-MR capsules, open capsules. Do not crush tablets as nitrofurantoin is irritant. Do NOT open MR capsules	Unlikely to need: licensed product available	
Nystatin	LICENSED liquid formulation available.		Unlikely to need: licensed product available	

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SCOTTISH DRUG TARIFF PART 7U JULY 18

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Odaban				Odaban 20% included in Part 7U of Scottish Drug Tariff
Oilatum				Oilatum Bath Formula and Oilatum Scalp Intensive Shampoo included in Part 7U of Scottish Drug Tariff
Olanzapine	LICENSED orodispersible tablets available. Can be placed on the tongue or dispersed in water, orange juice, apple juice, milk or coffee. Olanzapine may be irritant to the skin and eyes, so take precautions to avoid contact (e.g. wear gloves).		Unlicensed 2.5mg/5ml special oral liquid available	Note - restricted to specialist initiation in GGC Formulary.
Omeprazole	LICENSED orodispersible tablets available (Losec MUPS®). Disperse in water then mix with orange/apple/pineapple juice, apple sauce or yoghurt if flavouring required. Alternatively, consider switching to licensed lansoprazole orodispersible tablets (Zoton FasTabs®). Mezzopram dispersible tablets are licensed for use through enteral feeding tubes, or consider switching to lansoprazole as Zoton FasTabs® as licensed for naso-gastric tube administration. See NEWT guidelines for more information. Omeprazole orodispersible tablets - GGC Formulary states: Restrictions: Only for use in patients with narrow-bore feeding tubes.		Liquid special suspensions of various strengths available.	Omeprazole orodispersible tablets - GGC Formulary states: Restrictions: Only for use in patients with narrow-bore feeding tubes. Prescribing Notes: GGC Paediatrics use Omeprazole Orodispersible Tablets for oral administration, and use Omeprazole Capsules (Gastro-Resistant), contents of the capsules suspended in Sodium Bicarbonate Oral Solution, Sugar Free 1 mmol/ml, for tube administration. Aclomep powder for oral solution is the preferred option for small babies on units where the dose is less than 5mg, and babies with a nasogastric tube (the solution does not block tubes in the way suspension or MUPS does). Once a tube is no longer required, they can transition to MUPS. (advice from RHSC, Neonate Pharmacy Team). The orodispersible preparations are considerably more expensive than omeprazole capsules and should not used unless necessary.
OroNac				OroNac 600 Caps, OroNac 600 Tabs, and OroNac 600 Effervescent Tabs included in Part 7U of Scottish Drug Tariff
Oxybutynin	LICENSED sugar-free liquids available - please ask prescriber to specify 'sugar-free' to ensure licensed product. LICENSED patches available if appropriate	For non-MR tablets: Crush and mix with water. Do NOT crush MR tablets	Unlicensed special oral solution available	Note - MR and patches restricted to specialist initiation in GGC Formulary

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Papaverine Injection			Various strengths available	
Paracetamol	LICENSED preparations available (soluble tablets (NB: note sodium content), suspension and suppositories).		Unlikely to need: licensed products available	
Penicillamine		Crush tablets and mix with water. Give immediately.	250mg/5ml liquid special available	Note - restricted to specialist initiation in GGC Formulary.
Perindopril	Consider switching to alternative ACEI.	There are two salts of perindopril available - erbumine and arginine, and the doses are NOT equivalent. No information is available for perindopril arginine in enteral feeding or swallowing difficulties. For perindopril erbumine in swallowing difficulties, the tablets can be crushed and mixed with water. See NEWT guidelines for more information.	Unlicensed liquid special products available	See NEWT guidelines for more information.
Phenobarbital (Phenobarbitone)	Consider LICENSED 15mg/5ml elixir (NB Contains 38% alcohol)	Crush tablets and mix with water.	50mg/5ml special oral solution available	50mg/5ml oral suspension included in Part 7S of the Scottish Drug Tariff. GGC Formulary Note - restricted to specialist initiation. Patients should be maintained on a specific manufacturer's preparation. Prescriptions should detail the manufacturer of the generic preparation. GGC paediatrics note - Elixir not suitable for children - usually use alcohol free 50mg/5ml (Rosemont). In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Phenytoin	LICENSED preparations available (liquid and chewable tablets). Care is needed when switching between different phenytoin preparations		90mg/5ml special oral suspension available	90mg/5ml oral suspension included in Part 7S of the Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Phytomenadione	LICENSED Neokay® Phytomenadione 1mg capsules available. Konakion MM® Paediatric injection is licensed for oral use in children and neonates, and the oral licence is only for the prophylaxis of vitamin K deficiency bleeding.	Konakion MM® Phytomenadione 10mg/ml Injection can be given intravenously under the product licence. It can be given orally off licence.	Unlicensed special products available - Phytomenadione 10mg tablets	Note - Licensed menadiol 10mg tablets are available and may be a suitable alternative for some patients. Check if clinically appropriate.
Pilocarpine HCl_Eye Drops 0.5% P/F	LICENSED Minims® Pilocarpine Nitrate 2% eye drops available (20x0.5ml)			Note - restricted to specialist initiation in GGC Formulary.

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Pirenzepine			Available as Gastrozepin 50mg tablets - unlicensed in UK.	If prescribed for hypersalivation from clozapine - should be obtained via Leverdale.
Potassium Acid Phosphate			13.6% (1mmol/ml) oral solution available	
Potassium Chloride	LICENSED preparations available: Sando K effervescent tablets; Kay-Cee-L liquid (dilute before use).	Do not crush Slow K which are modified release.	Unlicensed liquid special 7.5% (1mmol/ml) product available	
Pravastatin	LICENSED simvastatin liquid and atorvastatin chewable tablets available.	Crush tablets and mix with water. Give immediately.	Unlicensed liquid preparations available	
Prednisolone Sodium Phosphate Eye Drops P/F	LICENSED 0.5% unit dose available (Minims® Prednisolone Sodium Phosphate)		Unlicensed specials available	0.1% P/F drops x 10ml included in Part 7S of the Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary.
Pregabalin	LICENSED preparations available (capsules and 20mg/ml oral solution)	Open capsules and mix in water. May taste unpleasant.	Unlikely to need: licensed products available. Unlicensed 75mg/5ml oral suspension available	Note - if for Epilepsy, restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Primidone	LICENSED 50mg and 250mg tablets available	Crush tablets and disperse in water.	Unlicensed oral suspensions available in various strengths.	Various strengths of oral suspension available. Note - restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Probenecid		Crush tablets and disperse in water.		
Procyclidine	LICENSED liquid formulations available.		Unlikely to need: licensed product available	
Propranolol	LICENSED liquid formulations available.		Unlikely to need: licensed product available	

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Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Pyridostigmine Bromide		Crush tablets and mix with water.	Unlicensed liquid special products available in various strengths	Note - restricted to specialist initiation in GGC Formulary.
Pyridoxine HCl		Crush tablets and mix with water.	Unlicensed liquid special products available in various strengths	
Pyrimethamine		Crush tablets and mix with water or fruit juice.	2mg/ml liquid special product available	

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Quetiapine	Licensed solution now available - 20mg/ml sugar free suspension	For non-MR tablets: Crush and mix with water or add to soft food (e.g. yoghurt) (to mask bitter taste). Give immediately. Do NOT crush MR tablets	Liquid special suspensions of various strengths available	Various strengths of oral suspension included in Part 7S of the Scottish Drug Tariff. Note restricted to specialist initiation in GGC Formulary. NB: there may be opportunity to optimise to more cost-effective dose
Quinoderm				Quinoderm Facewash included in Part 7U of Scottish Drug Tariff

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Ramipril	LICENSED 2.5mg/5ml oral solution available	Tablets can be crushed and dispersed in water. Open capsule and place contents directly into the mouth or onto bread or disperse in water or mix with apple juice or apple sauce (to mask unpleasant taste). Give immediately	Unlicensed liquid specials available.	5mg/5ml oral solution included in Part 7S of the Scottish Drug Tariff
Ranitidine	LICENSED preparations available: effervescent tablets and 75mg/5ml liquid (can be used with oral syringe)		Unlikely to need: licensed products available - 5mg/5ml special liquid available	GGC paediatrics note - 5mg/5ml usually not needed - usually use licensed 75mg/5ml and 1ml syringe.
Rapilose OGTT Solution				Included in Part 7U of Scottish Drug Tariff (75g/300ml)
**Reflective (Dundee) Sunscreens - various shades				Reflectant Sun Screen (Beige, Coffee, Coral Pink) included in Part 7S of Scottish Drug Tariff
Restasis Ophthalmic Emulsion 0.05% (ciclosporin)				Note - Ciclosporin for Dermatology or Rheumatology restricted to specialist initiation in GGC Formulary.
Riboflavin	No licensed product available			May be useful in preventing migraines (UKMI). Note there is no licensed riboflavin product available in the UK. Unlicensed product available as standard release capsules and 100mg modified release tablets.
Rivaroxaban	Xarelto® (Rivaroxaban) SPC states tablets may be crushed and mixed with water or apple puree immediately prior to use and administered orally. The crushed tablet may also be given in a small amount of water via a gastric tube.			Refer to 'DOAC Prescribing in Patients with Non-Valvular AF and for the treatment and prevention of VTE Frequently Asked Questions' via http://www.ggcmedicines.org.uk/blog/mue-07-doac-prescribing/

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**Salicylic Acid in Aqueous Cream			Salicylic Acid 5% in Aqueous Cream and Salicylic Acid 10% in Aqueous Cream included in the NHS GG&C Total Formulary as Special Order products	Salicylic Acid 2% in Aqueous Cream, Salicylic Acid 5% in Aqueous Cream, and Salicylic Acid 10% in Aqueous Cream included in Part 7S of the Scottish Drug Tariff
**Salicylic Acid 2% and Sulphur 2% in Aqueous Cream				
**Salicylic Acid in Emulsifying Ointment				Salicylic Acid 2% in Emulsifying Ointment, Salicylic Acid 5% in Emulsifying Ointment, Salicylic Acid 10% in Emulsifying Ointment included in Part 7S of Scottish Drug Tariff
**Salicylic Acid in Yellow Soft Paraffin				Salicylic Acid 5% in YSP, and Salicylic Acid 10% in YSP included in Part 7S of Scottish Drug Tariff. Salicylic Acid in Yellow Soft Paraffin 5% and 10% preparations are included in the NHS GG&C Total Formulary as Special Order products
Selenium	LICENSED 50 microgram/ml oral liquid available - 2ml, 10ml		Unlikely to need unlicensed oral solution. Unlicensed tablets available (SelenoPrecise 200mcg and 100mcg tablets).	
Senset				Senset Skin Cleansing Foam included in Part 7U of Scottish Drug Tariff
Sertraline	If clinically appropriate, consider switching to alternative SSRI. Fluoxetine (available as LICENSED liquid) or citalopram (available as LICENSED oral drops)	Crush tablets and disperse in water or mix with food. Give immediately. NB: tablets taste bitter and have an anaesthetic effect on the tongue so care should be taken with hot meals after administration.	Liquid special suspension available	Sertraline 50mg/5ml Oral Suspension included in Part 7S of the Scottish Drug Tariff
Seven Seas Concentrated Cranberry Forte				Seven Seas Concentrated Cranberry Forte 200mg capsules included in Part 7U of Scottish Drug Tariff

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Sildenafil	LICENSED chewable tablets and LICENSED oral suspension 10mg/ml available	Crush tablets and disperse in water.	Liquid special products available in various strengths	Note - if for pulmonary vascular disease, restricted to specialist use only in GGC Formulary. GGC paediatrics note - licensed product now available (Revatio).
Simvastatin	Consider switch to Atorvastatin chew tabs as first line statin if appropriate. Alternatively LICENSED Simvastatin 20mg/5ml and 40mg/5ml suspensions available	Crush tablets and disperse in water. Give immediately (light sensitive).		
Sodium benzoate			Available as unlicensed special in various formulations	Included in GGC Paediatric Formulary for use in metabolic disorders (500mg tablets, 100mg/ml oral solution, 20% injection).
Sodium Bicarbonate Tablets				Sodium Bicarbonate Tablets 600mg included in part 7U of Scottish Drug Tariff
Sodium Bicarbonate Oral Solution 8.4%	LICENSED 84mg/ml oral solution available (equivalent to 1mmol/ml sodium) (Thamicarb™)	Sodium Bicarbonate capsules available. Open capsules and mix contents with water		Note - restricted to specialist initiation in GGC Formulary.
Sodium Chloride Oral Solution	LICENSED 1mmol/ml oral solution available		Unlicensed liquids in various strengths available	Note - restricted to specialist initiation in GGC Formulary. Sodium Chloride Oral Solution 5.13mmol/ml and 5mmol/ml included in Part 7U of Scottish Drug Tariff.
Sodium chloride 5% Preservative Free Eye Drops	Licensed Sodium Chloride 5% preservative-free drops available (10ml and unit dose (20x0.45ml))			NaCl 5% eye drops 0.45ml unit dose preservative free (20) listed in BN F74 (£19.70)

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Sodium chloride 5% Eye Drops (contains preservative)				
Sodium Chloride Eye Ointment 5%				
Sodium Cromoglicate 2% Eye Drops Preservative Free	Licensed Catacrom® unit dose eye-drops available			
Sodium Valproate	LICENSED preparations available (liquid and crushable tablets) (crush tablets and mix with water or soft food (e.g. yoghurt or jam) to mask bitter taste)		Unlikely to need: licensed products available	Note - restricted to specialist initiation in GGC Formulary. Prescribe by brand name. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Solgar Copper Chelate Tablets 2.5mg				
Solifenacin		Crushing the tablet is not recommended. Consider changing to alternative treatment e.g. tolterodine, oxybutynin.	Special Oral Suspension 10mg/5ml available	Consider changing to alternative treatment e.g. tolterodine, oxybutynin.
Sotalol	Consider switching to alternative beta-blocker: atenolol or propranolol (available as LICENSED liquids)	Crush tablets and mix with water	Unlikely to need: licensed products available	Note - restricted to specialist initiation in GGC Formulary.
Spatone Original				Spatone Original sachets included in Part 7U of Scottish Drug Tariff
**Special Ointment No 1	See Ichthammol 1% in Zinc Oxide 15% in Yellow Soft Paraffin			
Spironolactone		Crush tablets and mix with water.	Liquid special suspensions of various strengths available	50mg/5mg and 25mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff

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Sucralfate	Long-term manufacturing problem with licensed preparations		Special oral suspension and tablets available	
Sulfapyridine			250mg capsules available	
Sunsense				Sunsense Daily Face Cream SPF 50+ and Sunsense Sensensitive Cream SPF 50+ included in Part 7U of Scottish Drug Tariff
Supranettes Eye Cleansing Wipes				Supranettes Eye Cleansing Wipes included in Part 7U of Scottish Drug Tariff
Systane Lid Wipes				Systane Lid Wipes included in Part 7U of Scottish Drug Tariff

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Tacrolimus	Consider using LICENSED sachets. Maintain continuity of supply as differences in bioavailability.	The capsules could be opened and contents dispersed in water. HOWEVER, NOT GENERALLY RECOMMENDED AS CARER WOULD REQUIRE TO USE A MASK AND GLOVES TO REDUCE EXPOSURE TO THE POWDER. DO NOT OPEN MR CAPSULES. See NEWT guidelines for more information.	5mg/5ml oral suspension available as special product	5mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary. Tacrolimus preparations should be prescribed by brand name.
Tamoxifen	LICENSED liquid formulation 10mg/5ml available.	Caution - carcinogenic. The tablets could be crushed and mixed with water for enteral tube administration, or crushed tablets mixed with jam or yoghurt for oral administration. HOWEVER, NOT GENERALLY RECOMMENDED AS CARER WOULD REQUIRE TO USE A MASK, EYE PROTECTION AND GLOVES TO REDUCE EXPOSURE TO THE DUST AND CRUSHED TABLETS. See NEWT guidelines for more information.	Unlikely to need: licensed products available	Note - restricted to specialist initiation in GGC Formulary.
Terbinafine		Crush tablets and mix with water.	Unlicensed oral suspension available	
Tetrabenazine		Crush tablets and mix with water.	Unlicensed liquid specials available	Note - restricted to specialist initiation in GGC Formulary.
Thiamine		Crush tablets and disperse in water.	Unlicensed liquid specials available	Thiamine 100mg/5ml Oral Solution included in Part 7S of the Scottish Drug Tariff
Thioridazine	Review continuing need - consider alternatives	Some brands of thioridazine tablets will disperse in water, others will not.		
Tizanidine		Crush tablets and mix with water.	2mg/5ml SF liquid specials available	2mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary.
Tolterodine		Crush standard tablets and disperse in water. Use immediately.	Unlicensed oral liquid available	

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Topiramate	LICENSED "Sprinkle" capsules available (sprinkle contents on soft food and swallow immediately without chewing)	Crush tablets and disperse in water (NB bitter taste)	Unlicensed oral suspension available	Note - restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Tranexamic acid	No licensed solution	Crush tablets and mix with water.	Liquid special suspensions of varying strength to suit dose required	500mg/5ml oral solution included in Part 7S of Scottish Drug Tariff
**Trichloroacetic Acid Paste				For Hospital and GP Stock Order
Trientine Dihydrochloride				100 x 300mg capsules
Trihexyphenidyl HCL	LICENSED liquid formulation 5mg/5ml available	Crush tablets and disperse in water.	Unlikely to need: licensed products available. 2mg/5ml and 1mg/5ml oral suspension special available.	

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Urea Oint 25%	Consider Flexitol / Dermatronics heel balm (Urea 25% balm)			
**Urea in White Soft Paraffin				
Ursodeoxycholic Acid	LICENSED liquid available	Can crush tablets and mix with water but limited solubility. Do not open capsules.	Unlikely to need: licensed products available	Note - restricted to specialist initiation in GGC Formulary.
Valproic Acid (Depakote)	Valproic acid and sodium valproate are not directly interchangeable. However, could consider review and change to LICENSED Epilim liquid 200mg/5ml with care. NB: there are pharmacokinetic differences; take care when switching. See NEWT guidelines for more information. NEWT states 'there is no officially recommended dose conversion between the two products, due to their differing pharmacokinetics. However it would seem sensible to convert patients on depakote to the same dose of sodium valproate liquid and monitor the clinical effect'. Further GGC guidance on dose conversion is available at http://teams.staffnet.ggc.scot.nhs.uk/teams/Partnerships/chcp-pharmacy-support/Medicines%20Supply%20Problems%20and%20Shortages/Supply%20problem%20with%20Depakote%20Aug%202017%20final.pdf "Supply problem with Depakote August 2017 final"	Not recommended to crush Depakote tablets	Liquid special available - Valproic acid suspension 500mg/5ml	Note - restricted to specialist initiation in GGC Formulary. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations. Changing from valproic acid tablets to sodium valproate liquid in swallowing difficulties is the preferred option to consider in GGC. NEWT states 'there is no officially recommended dose conversion between the two products, due to their differing pharmacokinetics. However it would seem sensible to convert patients on depakote to the same dose of sodium valproate liquid and monitor the clinical effect'. Further GGC guidance on dose conversion is available at http://teams.staffnet.ggc.scot.nhs.uk/teams/Partnerships/chcp-pharmacy-support/Medicines%20Supply%20Problems%20and%20Shortages/Supply%20problem%20with%20Depakote%20Aug%202017%20final.pdf "Supply problem with Depakote August 2017 final"
Vancomycin	Licensed capsules available	The injection can be diluted with 30mL water for injection and given enterally. The expiry of the reconstituted injection depends upon the brand. Do not administer vancomycin capsules via enteral tubes/swallowing difficulties.	Liquid special available	
Venlafaxine	No licensed solution	For non MR tablets: crush and mix with water or jam. MR capsules: Open capsule and mix with smooth food e.g. yoghurt. NB: DO NOT crush contents	Liquid special suspensions of varying strength to suit dose required	75mg/5ml and 37.5mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff.

U, V, W & Z

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JULY 2018

SCOTTISH DRUG TARIFF PART 7U JULY 18

Drug	Option 1: Use a licensed medicine in a suitable licensed formulation (incl review ongoing need or change to different drug in same therapeutic class)	Option 2: Use a licensed medicine in an unlicensed manner (e.g. crushing tablets)	Option 3: Only if clinical reason exists for not using licensed product: Use an unlicensed special	Comments
Verapamil	LICENSED liquid available	For non-MR tablets: Crush and mix with water. They have a bitter taste and local anaesthetic effect on the mouth. Do NOT crush MR tablets or open the capsules.	Unlikely to need: licensed products available	
Vitamin D 3 (see calciferol and colecalciferol entries)	Consider Healthy Start Vitamins, OTC preparations, LICENSED colecalciferol preparations (includes Aviticol 20000iu caps, Desunin 800iu tabs, Fultium D3 20000iu caps, Fultium D3 800iu caps, Fultium D3 drops (3 drops contains 200 IU vitamin D), Invita D3 2400iu oral drops, Invita D3 25000iu, 50,000iu/ml oral solution) or LICENSED Calcium/Vitamin D preparations	Desunin@tablets (800 units) can be crushed and taken with food	Unlicensed special preparations available in various strengths. Commercial oral drop preparations available (not licensed as a medicine) - e.g. Healthaid Vitamin D3 200units/drop (15ml)	Vitamin D3 (Colecalciferol) 1000U tablets included in Part 7U of Scottish Drug Tariff
Vitamin E (tocopheryl)	LICENSED products available: Vedrop 50mg/ml oral solution (D-alpha tocopherol (as tocopherolsolan), Alpha tocopheryl acetate 500mg/5ml oral suspension, E-tabs 100mg chewable tablets (alpha tocopheryl acetate)		Vitamin E supplements available in various strengths from wholesalers (check NHS Blacklist).	
Warfarin	LICENSED liquid 1mg/ml available. Monitor INR closely if changing the patient's preparation	Crush tablets and mix with water. Monitor INR closely if changing preparation patients receive	Liquid special available in various strengths	
**White Soft Paraffin in Liquid Paraffin	LICENSED preparation available: 50/50			
Zonisamide		Capsules can be opened and contents sprinkled onto apple sauce or chocolate pudding, or mixed with water or apple juice	Liquid special available	In GGC Formulary - restricted to specialist initiation. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations.
Zopiclone	Consider switching to temazepam (available as LICENSED liquid).	Tablets UNSUITABLE for crushing or dissolving	Liquid special available.	Zopiclone 3.75mg/5ml Oral Suspension included in Part 7S of the Scottish Drug Tariff

Specials Contact Numbers

NHS GGC Central Prescribing Team

Community pharmacists should telephone 0141 232 1777 for advice or authorisation.

Authorisation is not required if:

- The product is listed in Part 7S of the Scottish Drug Tariff.
- The product can be sourced from NHS manufacturing units in Scotland, England or Wales.
- Previous authorisation has been obtained in the last 12 months and, the patient, the GP practice, the product, the supplier and the cost are all unchanged. Re-authorisation is required if the price increases by > 20% (or if anything else changes in the prescription).

GPs should contact their local community pharmacist or local Prescribing Support Team for advice.

Some NHS GGC commonly used Specials manufacturers/suppliers contact numbers

(NHS units commonly used in NHS GGC in bold)

Manufacturer / Supplier Name	Telephone No.	Fax No. / email
AAH Pharmaceuticals, Polmadie Road Glasgow Warehouse	0141 423 5888 outwith 8.30am - 7pm	0141 423 7662
AAH Specials	0121 344 5702 Specials	
AAH Retail	0344 561 6699 General Switchboard	
Aclardian Specials	01954 213490	
Alliance Healthcare	08448544998	
Alliance Healthcare Livingston Service Centre (previously Unichem)	01506 434 211	
Arjun	01932 268 286	
Bristol Myers Squibb	01244 586 250	01244 586251
Durbin PLC	0208 869 6554	0208 869 6582
Eaststone	0800 678 3102	0800 678 3101
Eclipse	0800 298 0078	
Ethigen	01355 598154	
Eldon Laboratories	0800 616 132	
Healthcare at Home	0800 783 2943	
Higher Nature	0870 066 4111	0870 0664125
Huddersfield Royal Infirmary	01484 355388	Fax: 01484 355377
IDIS World Medicines	01932 824 000	
John Bell & Croydon	0207 935 5555	
Kyowa Kirin, Galashiels (previously Archimedes)	01896 664000	
Mandeville Medicines	01296 394 142	01296 397223
Martindale same voice as above at Eldon	0800 137 627	0800 393360
Mawdsley's	0844 736 9016	
Rayner Pharmaceuticals	020 7684 9090	
Nova Laboratories	0800 975 4840	sales@novalabs.co.uk
Novartis	0845 741 9442	
Oxford Pharmacy Store	01865 904 141 Marketing: 01865 904184	01865 337 550
Pharmacia (Pfizer)	Customer Services: 0845 608 8866	
Pharmacy Production Unit - NHS Greater Glasgow & Clyde	0141 451 5820	0141 334 9064 0141 334 9137
Pharma Nord	01670 534901	01670 534902
Phoenix Healthcare	Customer Services: 01928 750552 East Kilbride Depot: 01355 243091	01355 227075
Quantum Specials	0800 043 9372	01207279411
Rokshaw Laboratories	0191 5106500	0191 5675210
Rosemont	0800 919312	
SLA Pharmacy	01923 681 001	01923 616 950
St Mary's Hospital	0203312 6666	
Stockport Pharmaceuticals	0161 419 5657	0161 419 5426
Stoke Mandeville Hospital	01296 315000	
Tayside Pharmaceuticals, Ninewells Hospital	01382 632 052	01382 632 060
Thornton & Ross	01484 842217	01484 841322
Torbay NHS Pharmacy Manufacturing Unit	01803 664 707	01803 664 354
Veriton Pharma (previously Special Products Ltd)	01932 690325	01932 341091