

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 JUNE 2017 | | SCOTTISH DRUG TARIFF PART 7U JUNE 2017 |
|--|---|--|---|---|
| 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. |
| Alendronic 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. |
| 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 specialist 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 | | |

A

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|---|--|--|---|
| 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 Guidance on the Use of Specials in Primary Care 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 7S 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 'NOAC Prescribing in Patients with Non-Valvular Atrial Fibrillation: Frequently Asked Questions' via http://www.ggcprescribing.org.uk/media/uploads/prescribing_resources/noac_guidance_-_1304.pdf for guidance on appropriate prescribing of NOACs. |
| 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 | |
| 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. |

A

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--------------|---|---|--|---|
| 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. |

B

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|-------------------------------------|---|---|--|--|
| 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 included in Part 7U of Scottish Drug Tariff |
| Bio Melatonin (see Melatonin entry) | | | Bio Melatonin® 3mg immediate release tablets are licensed as a medicinal product elsewhere in the EU and is the preferred melatonin preparation in the NHS GGC Paediatric Formulary. GGC Shared Care Protocol for Melatonin states Bio-Melatonin tablets "may be crushed and mixed with small amounts of food or liquids such as water, juice or milk. (Can then be administered via a NG tube or gastrostomy if required)." | Bio-Melatonin 3mg tablets included in Part 7U of Scottish Drug Tariff. Note - GGC Shared Care Protocol. |
| 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. |
| Blephaclean | | | | Blephaclean Wipes included in Part 7U of the Scottish Drug Tariff |
| 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 |

C

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--|---|---|--|--|
| **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®). |
| 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. |

C

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|---|---|---|---|
| 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 Eltir | | Liquid specials available | 500mg/5ml mixture x 200ml included in Part 7S of Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary. |
| Chlorothiazide | | | Unlicensed 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 Dermatology or Rheumatology restricted to specialist initiation in GGC Formulary. |
| 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 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. |

C

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|---|---|--|--|
| Ciprofloxacin 0.2% eye-drops (preservative-free) multidose | Licensed ciprofloxacin 0.3% ointment (Ciloxan®) and licensed levofloxacin preservative-free unit dose eye drops (Oftraquix®) 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 | Note - restricted to specialist initiation in GGC Formulary. |
| 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. |
| 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. |
| Clopidogrel | | 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 | | | | |

C

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--|---|--|--|--|
| **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 Lotiderm® instead of Betnovate®/Canesten® unlicensed mixture. Dilution of topical steroids is not recommended. |
| 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-dydramol | 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, Sun/Vit 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.</p> <p>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.</p> <p>Vitamin D3 (Colecalciferol) 1000U tablets included in Part 7U of Scottish Drug Tariff</p> |

C

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--|--|---|---|--|
| <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.</p> |
| <p>Co-Proxamol</p> | | | <p>Tablets available</p> | |
| <p>Cranberry</p> | | | | <p>Seven Seas Concentrated Cranberry Forte 200mg capsules included in Part 7U of Scottish Drug Tariff</p> |
| <p>Cyanocobalamin</p> | <p>LICENSED 50mcg tablets, 35mcg/5ml oral solution, 1mg/ml solution for injection available (note cyanocobalamin liquid, Cytacón® 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.</p> |

D

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---------------|--|--|--|---|
| Dabigatran | Consider change to other NOAC 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 'NOAC Prescribing in Patients with Non-Valvular Atrial Fibrillation: Frequently Asked Questions' via http://www.ggcprescribing.org.uk/media/uploads/prescribing_resources/noac_guidance_-_1304.pdf for guidance on appropriate prescribing of NOACs. |
| 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. |
| 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. | |
| 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. | | |

D

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|-------------------------------------|---|--|--|--|
| 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 Guidance on the Use of Specials in Primary Care 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 |
| 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 Guidance on the Use of Specials in Primary Care recommend 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 Guidance on the Use of Specials in Primary Care recommend using LICENSED Dithrocream® products instead of unlicensed dithranol preparations. | | | |
| Donepezil | Licensed 1mg/ml oral solution available | Tablets can be crushed and mixed with water for administration. Has a strong, bitter taste. | | |

D

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--------------------|--|---|--|----------|
| 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 JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 | | | | Included in Part 7U of Scottish Drug Tariff. GGC paediatrics note - when prescribing and dispensing in the community, the licensed 5mg/ml oromucosal solution should be used (see Midazolam). |
| Ergocalciferol | NOT NORMALLY INITIATED IN PRIMARY CARE. See calciferol and cotecalciferol entries. Licensed 50,000iu capsules available. | | 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 |

F

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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@). | Due to the long half-lives of fluoxetine and it's 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. Unlicensed Fluoxetine 10mg tablets available. | |
| Folic Acid | LICENSED syrup available | Crush tablets and disperse in water. Give immediately. | Unlikely to need: licensed products available | 5mg/5ml oral solution included in Part 7S of Scottish Drug Tariff |
| 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. |
| 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 | |

G

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
| Glucosulfa | | | | 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 Guidance on the Use of Specials in Primary Care advises that licensed version of GTN ointment (Rectogesic®) available and should be considered prior to unlicensed special order for diltiazem | | Unlicensed products available | Glyceryl Trinitrate Ointment 0.2% included in Part 7S of Scottish Drug Tariff |
| **Glycopyrrolate in Water | | | | Note - in anaesthesia restricted to specialist initiation in GGC Formulary. |
| **Glycopyrrolate in Cetomacrogol Cream | | | | |

G

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--------------------------------------|--|---|---|--|
| <p>Glycopyrronium bromide</p> | <p>LICENSED 1mg and 2mg tablets available. LICENSED 1mg/5ml oral solution available. Consider switching to hyoscine hydrobromide patches if appropriate.</p> | <p>If swallowing difficulties, the tablets can be crushed and mixed with water. See NEWT guidelines for more information.</p> | <p>Unlicensed liquid specials available.</p> | <p>Licensed tablets available from Morningside Healthcare via wholesalers. GGC paediatrics note - usually use 1mg and 2mg tablets.</p> |
| <p>Griseofulvin</p> | <p>LICENSED solution was available until FULSOVIN MARKETING AUTHORISATION REVOKED 23/01/13. Fluconazole also available as a LICENSED liquid</p> | <p>Drug is very insoluble so tablets are unsuitable to be crushed for administration. Consider alternative treatment.</p> | <p>LICENSED solution was available until FULSOVIN MARKETING AUTHORISATION REVOKED 23/01/13. Unlicensed special product 125mg/5ml available.</p> | |

H

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 bendroflumethiazide |
| 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 | Oral Mixture 15mg/5ml, 200ml available |
| Hydroxycarbamide 500mg/5ml suspension | | | | |
| Hydroxychloroquine | | Crush tablets and mix with water. | Liquid special suspensions and powder available | Note - restricted to specialist initiation in GGC Formulary. |

H

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 butylbromide | LICENSED 10mg tablets and 20mg/ml solution for injection available | Injection solution may be used for administration by mouth in children. Hyoscine butylbromide tablets should not be crushed. | Unlicensed hyoscine butylbromide 10mg/5ml oral suspension available | |
| 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% eyedrops also available | | Unlikely to need: licensed products available | 0.25% P/f drops 10ml included in Part 7S of the Scottish Drug Tariff |

I

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 | | | | |
| 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 initiation in GGC Formulary. |
| 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 JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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. |

L

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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. Capsules may also be opened and granules mixed with 40 ml of apple juice for administration through a nasogastric tube, administered immediately. 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. |
| 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 initiation in GGC Formulary. Lidocaine medicated plaster (Versatis) 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. |

L

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|-----------------------------|---|---|--|--|
| 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: 12.5mg/5ml or consider switching to alternative ACEI | Crush tablets and disperse in water. Give immediately | Unlicensed liquid specials available | |

M

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|--|---|--|---|
| 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 | Magnesium glycerophosphate 4mmol tablets included in Part 7U of Scottish Drug Tariff. (NB: Magnaphate® tablets are gluten-free). Note - magnesium supplementation is restricted to specialist initiation in GGC Formulary. Caution should be exercised when switching between magnesium preparations due to differing bioavailability. 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 | Magnesium glycerophosphate 5mmol/5ml oral suspension included in Part 7S of Scottish Drug Tariff. Note - magnesium supplementation is restricted to specialist initiation in GGC Formulary. Caution should be exercised when switching between magnesium preparations due to differing bioavailability. |
| 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. | | | Caution should be exercised when switching between magnesium preparations due to differing bioavailability. Note - magnesium supplementation is restricted to specialist initiation in GGC Formulary. |
| Mebeverine | LICENSED liquid available. | | Unlikely to need: licensed products available | |
| Megestrol Acetate (tablets) | LICENSED 160mg tablets available but currently on short supply | | Unlicensed 160mg and 40mg tablets available | 160 mg tablets currently on short supply |
| Megestrol Acetate (suspension) | | | Unlicensed suspension, various strengths and quantities available | |

M

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|----------------------------|---|---|---|--|
| Melatonin Tablets/Capsules | <p>Several strengths and formulations of melatonin are available. Unlicensed melatonin is available in immediate-release tablet/capsule forms from a number of manufacturers. None of these are licensed as a medicinal product in the UK. A licensed melatonin product, Circadin®, is also 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. Generic melatonin capsules are now first line option for prescribing. Bio-Melatonin® 3mg immediate release tablet is licensed as a medicinal product elsewhere in the EU. Liquid formulations of melatonin are expensive and are obtained from 'specials' manufacturers.</p> | | <p>Bio Melatonin® 3mg immediate release tablets are licensed as a medicinal product elsewhere in the EU. Bio-Melatonin tabs 3mg can be crushed and mixed with small amounts of food or liquids such as water (will dissolve in up to 200ml), juice or milk (can then be administered via a NG tube or gastrostomy). Melatonin standard capsules can be opened and mixed with water, milk, yoghurt or fruit juice. See NEWT guidelines for more information.</p> | <p>Bio-Melatonin 3mg tablets, Melatonin 3mg tablets and Melatonin 3 mg capsules included in Part 7U of Scottish Drug Tariff. Note -please refer to GGC Shared Care Protocol.</p> |
| Melatonin Oral Liquid | | | <p>Bio Melatonin® 3mg immediate release tablets are licensed as a medicinal product elsewhere in the EU. Bio-Melatonin tabs 3mg can be crushed and mixed with small amounts of food or liquids such as water (will dissolve in up to 200ml), juice or milk (can then be administered via a NG tube or gastrostomy). Melatonin standard capsules can be opened and mixed with water, milk, yoghurt or fruit juice. See NEWT guidelines for more information.</p> | <p>Melatonin 1mg/ml oral solution is included in Part 7S of the Scottish Drug Tariff. GGC paediatrics note - usually do not use liquid.</p> |
| Menadiol | <p>LICENSED 10mg tablets available</p> | | <p>Unlicensed 5mg/5ml oral suspension available</p> | |
| **Menthol in Aqueous Cream | | | | |
| Mepacrine | | | | <p>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.*</p> |
| Mercaptamine (eye drops) | | | | <p>0.55% eye drops included in Part 7S of Scottish Drug Tariff</p> |

M

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--|---|--|--|--|
| 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 | |
| Methylidopa | | Crush tablets and mix with water. NB: Tablets are film coated and not very soluble | | Note - restricted to specialist initiation in GGC Formulary. |
| 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. | | |
| Metolazone | | | 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 |

M

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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) | Midazolam is now available as a licensed product (Buccolam® 5mg/ml - available in 2.5mg, 5mg, 7.5mg and 10mg pre-filled oral syringes) and unlicensed special product (Epistatus®). Special Products Ltd have applied to MHRA for a product license for Epistatus®. Please note that patients should remain on the same product to ensure consistency as they are not interchangeable. | | Available as 10mg/ml (5ml vial), and various strengths of syringe | 10mg/1ml oromucosal solution (5ml vial) and 2.5mg/0.25ml, 5mg/0.5ml, 7.5mg/0.75ml and 10mg/ml buccal pre-filled syringes included in Part 7S of the Scottish Drug Tariff. Note - restricted to specialist initiation in GGC Formulary. GGC paediatrics note - when prescribing and dispensing in the community, the licensed 5mg/ml oromucosal solution should be used. |
| Midazolam (liquid) | | | Unlicensed 1mg/ml and 2.5mg/ml liquid available | |
| Midodrine | LICENSED Midodrine (Bramox®) 2.5mg and 5mg tablets available from 29th July 2015 | | Unlicensed midodrine 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 but DO NOT crush contents - see NEWT guidelines for more info | Unlikely to need: licensed products available | |
| Multivitamin | | | | Multivitamin One-A-Day tablets included in Part 7U of Scottish Drug Tariff |

N

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|----------------|--|---|--|---|
| 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 (note: licensed tablets no longer available in the UK). | 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 preparations, open capsules or crush tablets and mix in water. Do NOT open MR capsules | Unlikely to need: licensed product available | |
| Nystatin | LICENSED liquid formulation available. | | Unlikely to need: licensed product available | |

O

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|------------|--|---|--|--|
| Odaban | | | | Odaban 20% included in Part 7U of Scottish Drug Tariff |
| Oilatam | | | | Oilatam Bath Formula and Oilatam 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®)). For enteral tube administration, 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. Prescribing Notes: The orodispersible preparations are considerably more expensive than omeprazole capsules and should not be used unless necessary. | | Liquid special suspensions of various strengths available. | 10mg/5ml, 20mg/5ml and 5mg/5ml oral suspensions included in Part 7S of the Scottish Drug Tariff. 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. The orodispersible preparations are considerably more expensive than omeprazole capsules and should not be 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 |

P

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|------------------------------------|---|--|--|--|
| 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. | 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. |
| 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. Note - restricted to specialist initiation in GGC Formulary. 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 | Konaktion MM® Phytomenadione 10mg/ml Injection can be given intravenously under the product licence. It can be given orally off licence. Konaktion MM® comes as a glass ampoule therefore if the option to give orally is chosen the patient should receive instructions on how to open the ampoules and be provided with a filter straw/needle to draw up the solution. | 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. |
| Pirenzepine | | | Available as Gastrozepin 50mg tablets - unlicensed in UK. | If prescribed for hypersalivation from clozapine - should be obtained via Leverdale. |

P

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|---|---|--|--|
| 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 | | Crush tablets and disperse in water. | | |
| 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 | |
| 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 | |

Q

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|------------|---|---|--|--|
| Quetiapine | Licensed solution now available | 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 |

R

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|--|---|--|---|
| 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 | 5mg/5ml oral suspension included in Part 7S of the Scottish Drug Tariff. 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 'NOAC Prescribing in Patients with Non-Valvular Atrial Fibrillation: Frequently Asked Questions' via http://www.ggcprescribing.org.uk/media/uploads/prescribing_resources/noac_guidance_-_1304.pdf for guidance on appropriate prescribing of NOACs. |

S

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|---|--|---|--|
| **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 |
| Sildenafil | | 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). |

S

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--|---|---|--|--|
| Simvastatin | Consider switch to Atorvastatin which is 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% | | Sodium Bicarbonate capsules available. Open capsules and mix contents with water | Sodium bicarbonate 420mg/5ml (8.4%) oral solution available | Note - restricted to specialist initiation in GGC Formulary. Sodium Bicarbonate Oral Solution 8.4% included in Part 7U of Scottish Drug Tariff. |
| 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, 5mmol/ml and 1mmol/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 BNF70 (£19.70) |
| 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. In the treatment of Epilepsy, recommended to maintain on a specific manufacturer's product. Care is needed when switching between different preparations. |

S

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|-------------------------------------|---|--|--|---|
| 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 Iron-Plus | | | | Spatone Iron-Plus 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 disperse in water. | Crush tablets and disperse in water. | Liquid special suspensions of various strengths available | 50mg/5mg and 25mg/5ml oral suspension included in Part 7S of Scottish Drug Tariff |
| 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 |

T

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|----------------------|---|---|--|---|
| 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. |
| Tamoxifen | LICENSED liquid formulation 10mg/5ml available. | 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 | |

T

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|------------------------------|---|---|---|--|
| 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. Give immediately | 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. | |

U, V, W & Z

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|---|--|---|---|--|
| 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) | NB 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. | Not recommended to crush Depakote tablets | | 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. |
| Vancomycin | Licensed capsules available | Dilute injection powder to 50mg/ml and give orally as prescribed. Can be stored in a fridge for up to 24 hours after reconstitution Injection can be further diluted up to 30ml with water and given orally if necessary | Liquid special available | Note - restricted to specialist initiation in GGC Formulary. |
| 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. |
| 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 (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 |

U, V, W & Z

**GGC DERMATOLOGY SPECIALS

SCOTTISH DRUG TARIFF PART 7S JUNE 2017

SCOTTISH DRUG TARIFF PART 7U JUNE 2017

| 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 |
|--|---|---|--|---|
| Vitamin E (tocopheryl) | LICENSED products available: Vedrop 50mg/ml oral solution (D-alpha tocopherol (as tocopherolan), 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 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. |
|---|---------------|--------------------------------|
| AAH Pharmaceuticals | 0141 423 5888 | 0141 423 7662 |
| AAH Retail | 0845 607 8899 | |
| Aclardian Specials | 01954 213490 | 01954 211516 |
| Alliance Healthcare | 01773 515599 | 0845 0518779 |
| Archimedes Pharmaceuticals UK Ltd | 0118 9315060 | |
| Arjun | 01932 268 286 | |
| BCM Specials | 0800 952 1010 | |
| Bristol Myers Squibb | 01244 586 250 | 01244 586251 |
| Durbin PLC | 0208 869 6554 | 0208 869 6582 |
| Eaststone | 0800 678 3102 | 0800 678 3101 |
| Eclipse | 01355 598 300 | |
| Ethigen | 01355 598154 | |
| Eldon Laboratories | 0800 616 132 | |
| Healthcare at Home | 0800 783 2943 | |
| Higher Nature | 0870 066 4111 | 0870 0664010 |
| Hospira | 0208 838 5870 | |
| Huddersfield Royal Infirmary | 01484 342 788 | |
| IDIS World Medicines | 01932 824 000 | |
| John Bell & Croydon | 0207 935 5555 | |
| Mandeville Medicines | 01296 394 142 | 01296 397223 |
| Martindale | 0800 137 627 | 0800 393360 |
| Mawdsley's | 0844 736 9016 | |
| Moorfield Pharmaceuticals | 020 7684 9090 | |
| Nova Laboratories | 01162 782 277 | 01162 230120 |
| Novartis | 0845 741 9442 | |
| Oxford Pharmacy Store | 01865 904 141 | 01865 337 550 |
| Pharmacia (Pfizer) | 01304 616 161 | |
| Pharmacy Production Unit - NHS Greater Glasgow & Clyde | 0141 451 5820 | 0141 334 9064 0141 334 9137 |
| Pharmalon | 01708 379 000 | |
| Pharma Nord | 01670 534901 | 01670 534902 |
| Phoenix Healthcare | 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 681 221 |
| St Mary's Hospital | 0203312 6666 | |
| Special Products Limited | 01932 690325 | 01932 341091 |
| 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 | |
| Torbay NHS Pharmacy Manufacturing Unit | 01803 664 707 | 01803 664 354 |
| UDG Link Pharmaceutical | 01773 510 123 | 01773 810 644 |
| Unichem | 01506 434 211 | 01506 449 617 |
| Unidrug Distributors | 01773 510 123 | 01773 810644 |
| Vitaline | 01844 269 007 | 01844 269005 |