

Supply Issues Update for Primary and Secondary Care: July 2020

This report has been produced by the Department of Health and Social Care (DHSC) Medicine Supply Team. We aim to update this report monthly to provide an update on current primary and secondary care medicine supply issues that we are working on. This information is confidential to the NHS; please do not upload to websites in the public domain. Please do share with relevant colleagues and networks.

Where it has been stated 'a clinical memo from UKMI will be published on the SPS website', this will be found at the following URL: <https://www.sps.nhs.uk/category/shortages-discontinuations-and-expiries/>

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Information provided: w/c 29th June 2020New IssuesInjectables

Methylprednisolone sodium succinate 1g (Solu-Medrone) powder for injection

- Solu-Medrone 1g vials are out of stock until w/c 13 July 2020.
- Pfizer has sufficient stock of Solu-Medrone 500mg vials to support the gap in supply.
- An MSN was issued 8 June 2020 (attached).

Mitomycin 2mg injection

- Accord, the sole supplier of mitomycin 2mg vials has experienced a delay in getting this product to market related to a packaging deviation. There is currently no licenced stock of this vial size available and no confirmed date for replenishment.
- Other vial sizes of mitomycin for injection and/or infusion remain available including 10mg and 40mg from Accord and 20mg from Vygoris.
- Specialist importers have indicated that unlicensed imports of 2mg vials can be sourced.
- An MSN was issued 1 July 2020 (attached).

Propofol injections (various strengths)

- The supply position for propofol injections has now improved substantially and immediate shortages are no longer forecast.
- MSN/2020/018-U was issued 26 June 2020, which is an update to the previous MSN/2020/018 issued 8 April 2020.

Sildenafil (Revatio) 0.8mg/ml solution for injection

- UK licensed Revatio injection is out of stock until the end of August 2020.
- Pfizer are supplying US Revatio injection (considered unlicensed) during this time.

Orals

Ferrous Fumarate 322mg/Folic Acid 0.35mg (Pregaday) tablets

- Recipharm are out of stock until the end of October 2020.
- An MSN will be issued shortly.

Fluconazole 50mg/5ml (10mg in 1ml) powder for oral suspension

- Thornton and Ross are out of stock until 15 July 2020.
- Pfizer have supplies of Diflucan (fluconazole) 10mg in 1 ml powder for oral suspension to cover for this period.

Ketotifen (Zaditen) 1mg/5ml oral solution

- Zaditen oral solution is out of stock with resupply date to be confirmed.
- Zaditen 1mg tablets are currently available.

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- Unlicensed supplies of ketotifen oral solution have been sourced by specialist importers; lead times vary.
- An MSN will be issued shortly.

Imipramine 25mg tablets

- Imipramine 25mg tablets are out of stock until early August.
- Imipramine 10mg tablets remain available.
- Specialist importers have sourced imipramine 25mg tablets, lead times vary.
- An MSN was issued on 25 June (attached).

Lacosamide (Vimpat) 50mg tablets

- Vimpat 50mg tablets will be out of stock from early July until w/c 20 July.
- Vimpat 10mg/ml syrup remains available.
- See a DHCP letter from UCB Pharma for further information (attached).
- An MSN was issued on 25 June (attached).

Mirtazapine 15mg/45mg orodispersible tablets

- Mirtazapine 15mg and 45mg orodispersible tablets are out of stock until the end of July.
- Specialist importers have sourced supplies, lead times vary.
- Mirtazapine tablets (all strengths) remain available.
- Limited supplies of mirtazapine 30mg orodispersible tablets and mirtazapine 15mg/ml oral solution remain available but cannot support any increase in demand.
- An MSN was issued on 25 June (attached).

Phenelzine sulphate (Nardil) 15mg tablets

- Kyowa Kirin, sole supplier, is out of stock due to manufacturing delays and is currently unable to advise a resupply date.
- Specialist importers are currently experiencing difficulties sourcing unlicensed imports of the tablets.
- Supplies of phenelzine 15mg capsule specials have become available. Further information can be found in the SDA.
- An SDA was issued on 25 June 2020:
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103059>

Prochlorperazine 3mg buccal tablets

- Alliance Pharma are out of stock until August 2020.
- There is sufficient supply in the market from Medreich and Key Pharmaceuticals.

Others

Lodoxamide (Alomide) 0.1% eye drops

- Novartis are out of stock until late August.
- Sodium cromoglycate eye drops, and various antihistamine eye drops remain available.
- An MSN was issued on 25 June (attached).

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Fluticasone propionate (Flixotide) 0.5mg/2ml and 2mg/2ml nebulas

- GSK have shared the following anticipated out of stock dates:
 - Flixotide 0.5mg/2ml- Late June 2020 until November 2020
 - Flixotide 2mg/2ml - August 2020 until November 2020
- An MSN was issued on 26 June (attached).

Prednisolone 5mg suppositories

- RPH Pharmaceuticals are out of stock until the end of August 2020.
- Unlicensed imports have been sourced; lead times vary.
- An MSN was issued on 10 June (attached).

Ongoing Issues

Injectables

Adrenaline Auto-Injectors (AAIs)

- Recent supply issues affecting some brands of AAIs has impacted on all manufacturers, however, there are currently sufficient supplies overall to meet normal UK demand.

Emerade (Bausch & Lomb UK Ltd)

- On 28 November 2019, the MHRA issued a Class 2 pharmacy level recall for all strengths of Emerade devices following reports from the manufacturer, Bausch & Lomb UK Limited, of Emerade devices that have failed to activate. See link:
<https://www.gov.uk/drug-device-alerts/class-2-medicines-recall-emerade-150-300-and-500-microgram-solution-for-injection-in-pre-filled-syringe-mdr-57-08-19>
- On 29 November, DHSC issued a Supply Disruption Alert (SDA) with advice on how to manage patients affected. See link:
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102938>
- Subsequent to the pharmacy level recall above, on 4 March, 7 April and 18 May, the MHRA issued a patient level recall for Emerade 150mcg, 300mcg and 500mcg devices, respectively:
<https://www.gov.uk/drug-device-alerts/class-2-medicines-recall-emerade-150-micrograms-solution-for-injection-in-pre-filled-syringe-pl-33616-0013-el-20-a-14>
<https://www.gov.uk/drug-device-alerts/class-2-medicines-recall-emerade-300-micrograms-solution-for-injection-in-pre-filled-syringe-pl-33616-0014-el-20-a-20>
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103036>
- Patients and/or carers should return Emerade 150, 300 and 500 micrograms auto-injectors to their local pharmacy once they have obtained a prescription for, and been supplied with, an alternative brand.

Jext (ALK-Abello Ltd)

- Jext 150 microgram and 300mcg devices are currently available.
- Specific batches of UK licensed Jext 150 micrograms and 300 micrograms have received MHRA approval for extended use by four months beyond the labelled expiry date.
- Clinicians should check with patients requesting new Jext 150 micrograms and 300 micrograms to establish if they currently hold one of the batches that can be used beyond the listed expiry. If one of

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the listed batches is held, further supplies should be delayed until the extended expiry date, counselling the patient on the extended expiry.

- Please see the link for further information: <https://jext.co.uk/>

EpiPen/EpiPen Junior (Mylan)

- Prescription validation was lifted for EpiPen Junior and EpiPen devices on 10 February and 21 April 2020, respectively.
- Specific batches of EpiPen 300 micrograms have received MHRA approval for extended use by four months beyond the labelled expiry date.
- Clinicians should check with patients requesting new EpiPen 300 micrograms to establish if they currently hold one of the batches that can be used beyond the listed expiry. If one of the listed batches is held, further supplies should be delayed until the extended expiry date, counselling the patient on the extended expiry.
- Please see the link for further information: <http://www.epipen.co.uk/>

Adrenaline 1:1000 ampoules for anaphylaxis kits

- Adrenaline 1:1000 ampoules are currently available in sufficient quantities to meet normal demand.
- Some healthcare professionals may be holding an AAI in preference to adrenaline ampoules, to treat anaphylactic reactions; this should not be necessary.
- All healthcare professionals providing services where anaphylaxis treatment may be required, including but not exclusive to flu vaccination services, should have the competency to draw up and administer intramuscular adrenaline from ampoules with a normal syringe and needle.
- During the current supply situation, please use ampoules and not auto-injectors to replenish anaphylaxis kits. Remember to include the relevant dosing charts, syringes and needles.
- The [Green Book](#) and [Resuscitation Council](#) guidance provides additional advice to healthcare professionals on the use of adrenaline in response to anaphylaxis. Pharmacists providing vaccination services may also wish to refer to [PSNC FAQs](#). There is an expectation that healthcare professionals should use adrenaline ampoules in preference to Emerade or other AAIs.

Bleomycin (Bleo-Kyowa) 15,000IU injection

- Bleomycin 15,000IU injection is out of stock until mid-2021.
- Unlicensed imports of bleomycin injection are available.
- An updated MSN was issued 15 May 2020 (shared previously).

Crisantaspase (Erwinase) injection

- Porton Biopharma, the manufacturer of Erwinase, have had ongoing manufacturing issues affecting this product for the past 1-2 years with intermittent supply issues expected throughout 2020.
- Jazz Pharmaceuticals distributes Erwinase and supplies of UK licensed stock are currently unavailable however Jazz are supplying Irish stock during this time. Please contact Jazz directly if supplies of Erwinase are required. Jazz Customer Service: 01865 405000.
- Jazz anticipate further supplies of UK licensed product should be available w/c 6 July 2020.
- Jazz Pharmaceuticals works closely with the clinical networks and supplies are prioritised on a patient need basis in conjunction with the treating clinicians.

Diamorphine 5mg and 10mg injection

- There are two suppliers of diamorphine hydrochloride 5mg and 10mg in the UK, Wockhardt and Accord.

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- Accord are experiencing a long term out of stock of both 5mg and 10mg strengths with no confirmed resupply date.
- Wockhardt's 5mg and 10mg strengths are currently available with limited supplies.
- The indication from both suppliers of diamorphine 5mg and 10mg strengths is that the supply will remain unpredictable for the foreseeable future.
- Diamorphine hydrochloride 30mg, 100mg, 500mg are available but manufacturers are unable to support an increase in demand on these strengths.
- Sufficient supplies of morphine sulfate 10mg/ml injection are available from Ethypharm and Hameln to ensure continuity of supply. The Hameln presentation is preservative free.
- An updated SDA was issued 25 March. See the link below for further information:
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103005>

Diazepam (Diazemuls) 10mg/2ml emulsion for injection

- Accord are out of stock until late 2020.
- NOTE: There are insufficient supplies of Ativan injection to support, please do not use in place of Diazemuls.
- An MSN was issued 27 March 2020 (shared previously).
- UKMi have prepared a clinical memo to support management of this issue:
<https://www.sps.nhs.uk/articles/shortage-of-diazemuls-diazepam-5mgml-emulsion-for-injection/>

Epirubicin 10mg/50mg/100mg solution for injection

- There may be intermittent short-term supply issues until late July 2020.
- An MSN was issued 14 January 2020 (shared previously).

Gadobutrol (Gadovist) preparations

- Bayer are experiencing ongoing manufacturing issue at their site in Berlin is affecting supplies of their Gadovist presentations. This issue is due to be resolved during July 2020.
- We have engaged with Bracco and Guerbet regarding their supply position on other gadolinium containing products. Both companies have good supplies available and have sufficient stock to support this supply issue
- Please see full summary/stock position in table below:

Manufacturer	Presentation	Stock Availability
Bayer Plc	Gadovist 1mmol/ml solution for injection 10ml pre-filled syringes	Currently limited supply until late July 2020.
Bayer Plc	Gadovist 1mmol/ml solution for injection 15ml vials	Currently in stock .
Bayer Plc	Gadovist 1mmol/ml solution for injection 5ml pre-filled syringes	Currently in stock .
Bayer Plc	Gadovist 1mmol/ml solution for injection 7.5ml pre-filled syringes	Currently in stock .
Bayer Plc	Magnevist 2mmol/l solution for injection 1 x 20 ml pre-filled syringe	Currently limited supplies until late July 2020.
Guerbet UK	Dotarem 5ml vial, 10ml vial, 10ml PFS, 15ml vial, 15ml PFS, 20ml vial, 20ml PFS,	All presentations in stock and Guerbet have sufficient stock to support the shortage.

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Bracco UK Ltd	ProHance 0.5mmol/ml 10ml PFS, 10ml vials, 15ml vials, 17ml PFS, 20ml vials	All presentations in stock and Bracco have sufficient stock to support the shortage.
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Oily Phenol 5% (almond oil) injection

- Martindale, sole suppliers, are out of stock until August 2020.
- Specialist importers can source unlicensed products. Lead times vary.

Oxaliplatin 50mg/10ml, 100mg/20ml, 200mg/40ml solution for infusion vials

- Fresenius Kabi are out of stock due to a packaging delay.
- Ranbaxy can support Fresenius Kabi customers with all strengths of oxaliplatin infusion vials.
- The other contracted supplier (Accord) is unaffected but cannot support any additional demand from non-contracted customers during this time. Unlicensed imports of oxaliplatin solution for infusion can be sourced.
- Unlicensed imports of oxaliplatin solution for infusion can be sourced; lead time vary.
- An updated MSN was issued 12 June 2020 (attached).

Phosphate Polyfusors 50mmol/500ml

- Fresenius Kabi are out of stock with resupply currently expected in October 2020.
- Huddersfield Pharmacy Specials are making an equivalent product in a glass bottle supplied via Oxford Pharmacy Stores. Lead time is 6-8 weeks.
- Alternative phosphate supplements including sodium glycerophosphate 21.6% injection (Glycophos) and Addiphos remain available.
- Please refer to Medusa IV guide and local Trust guidelines for alternative phosphate administration advice.
- An SDA was issued on 7 May with advice on how to manage patients affected. See link: <https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103038>

Phytomenadione (Konakion MM) 2mg/0.2ml injection

- UK licensed Konakion MM Paediatric is out of stock until w/c 6 July 2020.
- Supplies of Konakion MM Paediatric in tri-lingual packaging (including English; considered unlicensed in the UK) are available to support during this time.
- An MSN was issued 9 April 2020 (shared previously).

Ranitidine 50mg/2ml injection

- Ranitidine 50mg/2ml injection are out of stock from Alliance Pharmaceuticals.
- Advanz Pharma currently have limited stocks remaining.
- An updated MSN with clinical revisions was issued 16 June 2020 (attached).

Sodium Bicarbonate for Intravenous Infusion (Polyfusors)

- Sodium bicarbonate polyfusors 1.26%, 1.40%, 2.74%, and 8.4% are out of stock until October 2020.
- Sodium bicarbonate 4.2% Polyfusor will remain available but cannot support an uplift in demand to compensate for other lines.
- Sodium Bicarbonate 8.4% 100ml bottles (B Braun) and 10ml ampoules (Ethypharm) are available.

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- An MSN was issued 25 March 2020 (shared previously).

Somatropin (Genotropin) devices

- See the table below for a summary of the supply position with Genotropin lines:

SKU	Situation
0.4mg MiniQuick	Out of Stock. Resupply end August.
0.8mg MiniQuick	Low Stock. Resupply early July.
1.0mg MiniQuick	Low Stock. Resupply estimate mid-August
1.2mg MiniQuick	Low Stock. Resupply estimate w/e 7 August
1.4mg MiniQuick	Out of Stock. Resupply end July.
1.6mg MiniQuick	Out of Stock. Resupply end August.
1.8mg MiniQuick	Out of Stock. Resupply estimate w/e 3 July
2.0mg MiniQuick	Out of Stock. Resupply end August.

- All other Genotropin lines remain available.

Tetracosactide 1mg depot injection

- Mallinckrodt, sole suppliers will be out of stock until early December 2020.
- Specialist importers can source unlicensed products. Lead times may vary.

Urokinase (Syner-KINASE) injection

- Syner-Med are currently in stock of all strengths of Syner-KINASE injection.
- Supply restrictions for the 10,000IU and 25,000IU will likely remain in place until the end of 2020.
- Details of suggested alternative products, if required, can be found in the UKMi memo below: <https://www.sps.nhs.uk/articles/shortage-of-urokinase-injection-syner-kinase-10000-iu-25000-iu-and-100000-iu-powder-for-solution-for-injection-or-infusion/>
- Additional information for the product Taurolock has been shared previously. To place orders for this product, contact customerservice@kimal.co.uk and copy louise.kelly@kimal.co.uk

Orals

Acetazolamide Slow Release 250mg capsules

- Acetazolamide SR 250mg capsules are out of stock until the end of July 2020.
- Acetazolamide immediate release 250mg tablets remain available.
- Limited supplies of unlicensed imports of acetazolamide SR 250mg capsules have been sourced
- An MSN was issued 9 April 2020 (shared previously).

Bupropion (Zyban) 150mg prolonged release tablets

- GlaxoSmithKine will be out of stock until the end of September 2020.
- Champix (varenicline tartrate) and various nicotine replacement therapies remain available.
- An SDA was issued on 29 May. See link below: <https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103049>

Caffeine citrate 10mg/ml oral solution

- Martindale, sole supplier, are out of stock of caffeine citrate 10mg/mL oral solution until early August 2020.

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- Caffeine citrate 10mg/mL solution for injection, which is licensed for oral use, remains available.
- An MSN was issued 29 May 2020 (attached).

Carbamazepine (Carbagen) various preparations

- Carbamazepine is considered a Category 1 anti-epileptic drug and patients should normally be maintained on the same brand, however Mylan (manufacturers of Carbagen) are out of stock of both Carbagen 200mg and 400mg immediate and modified release tablets and unable to advise on a resupply date.
- Patients should have been switched to an alternative brand of carbamazepine tablets during this time.
- Novartis, an alternate manufacturer of carbamazepine (Brand: Tegretol) tablets are in stock of all presentations and can support additional demand.
- UKMi have prepared a clinical memo to support clinicians in prioritising and switching patients:
<https://www.sps.nhs.uk/articles/shortage-of-carbagen-carbamazepine-tablets/>

Clonidine 25microgram tablets

- Accord are out of stock and are unable to advise on a resupply date.
- Sandoz are out of stock but expect to have further supplies w/c 6 July 2020.
- An MSN was issued 20 December 2019 (shared previously).
- See link below for UKMi clinical memo:
<https://www.sps.nhs.uk/articles/shortage-of-clonidine-25microgram-tablets/>

Co-careldopa 25mg/100mg tablets

- Teva, a generic supplier is out of stock and is currently unable to provide a resupply date.
- MSD, the supplier of the brand *Sinemet Plus* can cover supply for the whole market during this time.

Colestipol (Colestid) orange 5g granules

- Colestid orange sachets are out of stock until December 2020.
- Colestid plain sachets are currently available.
- For further information on alternative bile-acid sequestrants, see the UKMi memo:
<https://www.sps.nhs.uk/articles/shortage-of-bile-acid-sequestrants/>

Colestyramine (Questran) Powder for Oral Suspension

- Cheplapharm are out of stock of Questran Powder 4g sachets until 2021.
- Specialist importers can source unlicensed products. Lead times may vary.
- Limited supplies of Questran Light are currently available through Alliance Healthcare.
- Mylan have recently launched a generic colestyramine 4g light sachet which is available in wholesalers.

Contraceptive products

Brevinor (ethinylestradiol/norethisterone) 35microgram/500microgram tablets

- Pfizer the sole supplier is out of stock until Q3 2020 due to manufacturing issues.
- UKMi, have previously advised that there are no exact equivalent preparations to available in the UK market.
- Other ethinylestradiol and norethisterone OCP products should be available.

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- Clinicians are advised to refer to CKS guidance for advice Combined Oral Contraceptives (COCs):
<https://cks.nice.org.uk/contraception-combined-hormonal-methods>

Norimin (ethinylestradiol/norethisterone) 35microgram/1mg tablets

- Pfizer are out of stock until Q3 2020 due to manufacturing issues.
- UKMi have advised that there are no exact equivalent preparations to Norimin available in the UK market.
- Other ethinylestradiol and norethisterone OCP products should be available.
- Clinicians are advised to refer to CKS guidance for advice COCs:
<https://cks.nice.org.uk/contraception-combined-hormonal-methods>

Synphase (norethisterone and ethinylestradiol 500mcg/35mcg tablets and 1mg/35mcg) tablets

- Pfizer are out of stock until Q3 2020.
- Unlicensed imports of Synphase tablets have been sourced; lead times vary.
- Other brands of phasic oral contraceptive tablets also remain available.
- An MSN will be issued shortly.

Yiznell (ethinylestradiol/drospirenone) 30micrograms/3mg tablets

- Lupin, the suppliers of Yiznell are out of stock due to issues with packaging and are currently unable to advise on a resupply date.
- DHSC can confirm that equivalent alternatives which also contain ethinylestradiol 30 micrograms/Drospirenone 3 mg are available from several suppliers in the following brands: Dretine, Yacella, Yasmin, Ellaite and Lucette tablets.

Zoely (norgestrel/estradiol) 2.5mg/1.5mg tablets

- MSD are out of stock due to manufacturing constraints and currently advise a resupply date of 2022.
- UKMi have advised that there are no exact equivalent preparations to Zoely available in the UK market
- Clinicians are advised to refer to CKS guidance for advice COCs:
<https://cks.nice.org.uk/contraception-combined-hormonal-methods>

Fluoxetine 10mg tablets

- Endo Ventures are out of stock of fluoxetine 10mg tablets until March 2021.
- Fluoxetine 10mg capsules and fluoxetine 20mg/5ml oral solution remain available.
- An MSN was issued 12 March 2020 (shared previously).
- A serious shortage protocol (SSP) was issued on 12 March 2020. See link below:
<https://www.nhsbsa.nhs.uk/pharmacies-gp-practices-and-appliance-contractors/serious-shortage-protocols-ssps>

Fluoxetine 40mg capsules

- Advanz, sole supplier of fluoxetine 40mg capsules are out of stock until early August 2020.
- Fluoxetine 20mg capsules remain available.
- A serious shortage protocol (SSP) was issued on 20 May 2020. See link below:
<https://www.nhsbsa.nhs.uk/pharmacies-gp-practices-and-appliance-contractors/serious-shortage-protocols-ssps>
- An MSN was shared on 29 May 2020 (attached).

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Galantamine 8mg/12mg tablets

- Teva will be out of stock of their immediate release galantamine preparations (8mg and 12mg) until late 2020.
- Galantamine modified release capsules (8mg, 16mg, 24mg) and galantamine 4mg/ml oral solution are available.
- UKMi guidance for switching preparations below:
 - It is recommended that the same total daily dose of galantamine is administered to patients. Patients switching to the once-daily regimen should take their last dose of galantamine tablets or oral solution in the evening and start prolonged- release capsules once daily the following morning.

Histamine (H2) antagonists

- See the table below for a summary of the supply position with oral H2 antagonists.
- An updated MSN with management advice will be issued shortly.

Product	Supplier	Current Stock Position	Anticipated resupply date	Suggested management plan
Famotidine 20mg tablets	Tillomed	Out of stock	end July 2020	MSN to be issued shortly
	Teva	Out of stock	mid-August 2020	
Famotidine 40mg tablets	Tillomed	Out of stock	end July 2020	MSN to be issued shortly
	Teva	Out of stock	mid-July 2020	
Cimetidine 200mg tablets	Ennogen	Out of stock	2021	Unlicensed supplies have been sourced
	Medreich	Out of stock	to be confirmed	
Cimetidine 400mg tablets	Ennogen	Out of stock	2021	Unlicensed supplies have been sourced
	Medreich	Out of stock	to be confirmed	
Cimetidine 800mg tablets	Ennogen	Out of stock	2021	Unlicensed supplies have been sourced
	Medreich	Out of stock	to be confirmed	
Cimetidine 200mg/5ml oral solution	Rosemont	In stock	n/a	n/a
Nizatidine 150mg tablets	Mylan	Out of stock	mid-July 2020	MSN to be issued shortly
	Medreich	Out of stock	to be confirmed	
Nizatidine 300mg tablets	Mylan	Out of stock	w/c 6 July 2020	MSN to be issued shortly
	Medreich	Out of stock	to be confirmed	

Hormone Replacement Therapy products (HRT)

There are still some ongoing supply issues, please see **Table 2** in the Appendix for a full update on the availability of all HRT products.

Elleste oral HRT Range

- Mylan, sole supplier of the Elleste range, are out of stock due to manufacturing issues at their contract manufacturing site. Resupply is expected in late 2020.
- See **Table 1** below for equivalent alternatives to the Elleste range.

COMMERCIAL-SENSITIVE

Table 1. Equivalent HRT alternatives for the Elleste HRT range

Brand	Ingredient(s)	Current Availability	Equivalent	Ingredient(s)	Current Availability
Elleste Solo 1mg	estradiol hemihydrate	Out of stock	Progynova 1mg	estradiol hemihydrate	In stock
			Zumenon 1mg		In stock
Elleste Solo 2mg	estradiol hemihydrate	Out of stock	Progynova 2mg	estradiol hemihydrate	In stock
			Zumenon 2mg		In stock
Elleste Duet Conti	estradiol 2mg/ norethisterone 1mg	Out of stock	Klifem	estradiol 2mg/ norethisterone 1mg	In stock
Elleste Duet 1mg	estradiol 1mg/ norethisterone 1mg	Out of stock	NovoFem	estradiol 1mg/ norethisterone 1mg	In stock

Ethinylestradiol 10microgram/50microgram tablets

- UCB, sole supplier is out of stock due to manufacturing issues and currently unable to advise a resupply date.
- Specialist importers can source unlicensed products. Lead times may vary.

Evorel transdermal patch range

- On 24 October 2019, Janssen-Cilag divested the Evorel range (Evorel, Evorel Conti and Evorel Sequi) to Theramex UK Ltd.
- Evorel 25, 50, 75 and 100 and Evorel Sequi are back in stock.
- Full resupply of Evorel Conti is expected in July.
- UKMi have published guidance to advise on suitable alternatives:
<https://www.sps.nhs.uk/articles/shortage-of-evorel-hormone-replacement-therapy-hrt-patch-range/>
- The British Menopausal Society with the support of the Royal College of Obstetrics and Gynaecologists have published a document advising on HRT preparations and equivalent alternatives, to aid prescribing during this period:
<https://thebms.org.uk/2019/11/british-menopause-society-further-update-on-hrt-supply-shortages-26-november-2019/>

Estraderm transdermal patch range

- Norgine are out of stock of all strengths until mid-July 2020.
- Alternative estradiol only transdermal patches remain available. Please refer to HRT table 2 in appendix.

FemSeven Transdermal patch range

- Teva divested the FemSeven product range to Theramex UK Ltd mid-2018.
- Theramex have confirmed that whilst new manufacturing arrangements are being established, the FemSeven range will be out of stock until end of 2020.
- Specialist importers can source unlicensed products. Lead times may vary.

Levodopa/carbidopa/entacapone tablets - various brands and strengths

- Teva went out of stock in February 2020 of some strengths and pack sizes of Stanek tablets.
- This was due to manufacturing delays and has impacted some supplies of other strengths of Stanek, Sastravi and Stalevo tablets.

COMMERCIAL-SENSITIVE

- Accord are now out of stock of some presentations of Sastravi.
- All other Stanek, Stalevo and Sastravi presentations, which are considered equivalent, remain available during this time.
- An MSN was issued 16 June 2020 (attached)
- Refer to the table below:

Presentations Affected	Stanek Anticipated Resupply Dates	Sastravi Anticipated Resupply Dates
75mg/18.75mg/200mg tablets		
Pack size 30	Early August 2020	Available
100mg/25mg/200mg tablets		
Pack size 100	Mid-July 2020	Mid-July 2020
Pack size 30	Mid-July 2020	Mid-July 2020
125mg/31.25mg/200mg tablets		
Pack size 30	Available	Mid-July 2020
150mg/37.5mg/200mg tablets		
Pack size 100	Early August 2020	Available
Pack size 30	Available	Mid-July 2020
175mg/43.75mg/200mg tablets		
Pack size 100	OOS from late June until end of July-2020	Mid-July 2020
Pack size 30	End of July	Mid-July 2020
200mg/50mg/200mg tablets		
Pack size 100	Early August 2020	OOS from late June to end July-2020

Mianserin 10mg/30mg tablets

- Mylan, sole supplier is out of stock of both strengths until Q1 2021.
- Specialist importers can source unlicensed products. Lead times may vary.
- For patients where imports are not appropriate, see previous updates for clinical advice.

Moclobemide 150mg and 300mg tablets

- Mylan (Manerix) now have both strengths back in stock
- Sandoz currently expect resupply for the 150mg in July 2021 and the 300mg in March 2021.

Pethidine 50mg tablets

- Martindale are out of stock with resupply date to be confirmed.
- Supplies are currently available from Teva.
- An MSN will be issued shortly.

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Phenytoin (Epanutin) 50mg Chewable Infatabs

- Pfizer are out of stock until mid-July 2020 due to a manufacturing delay.
- Pfizer has obtained approval from the MHRA to import stock of Dilantin (phenytoin) Infatabs from Canada.
- Canadian packs of Dilantin are considered unlicensed in the UK.
- A copy of the DHCP letter has been shared previously.

Phenytoin 100mg capsules

- Accord are out of stock of phenytoin sodium NRIM 100mg capsules resupply was expected in early May 2020, however, this has been delayed – resupply date to be confirmed.
- Flynn Pharma can support the full market during this time.
- As phenytoin is classed as a Category 1 anti-epileptic drug by the MHRA, switching to an alternative formulation requires monitoring and may also require specialist support, advice or referral.
- An SDA was issued on 10 January. See link below:
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102954>

Prazosin (Hypovase) 1mg tablets

- Hypovase 1mg tablets are out of stock with resupply date to be confirmed.
- Hypovase 500mcg tablets are currently available.

Prochlorperazine 3mg buccal tablets

- Alliance Pharmaceuticals are out of stock until August 2020 due to an API issue.
- Alternative generic manufacturers have sufficient stock available to meet demand during this time.

Promazine 25mg/50mg tablets

- Teva are out of stock until mid-July 2020.
- Alternative preparations as advised in the MSN circulated on the 13 March (shared previously) are:
 - o Promazine 25mg/5ml or 50mg/5ml oral syrup (licensed); or
 - o Promazine 25mg & 50mg tablets (unlicensed imports)

Ranitidine oral preparations

- Ranitidine tablets, effervescent tablets and oral solution are expected to be out of stock until further notice due to global regulatory investigations.
- An updated MSN with clinical revisions was issued 16 June (attached).

Sulfasalazine 250mg/5ml oral suspension

- Sulfasalazine 250mg/5ml oral suspension is out of stock until August 2020.
- Sulfasalazine 500mg tablets remain available.
- Some Specials manufacturers can produce an unlicensed sulfasalazine 250mg/5ml oral suspension.
- An MSN was issued 28 April 2020 (shared previously).

Tuberculosis medications

- An updated MSN was issued 8 June 2020 (attached).
- See table in the MSN for a summary of the supply position with tuberculosis medications.

COMMERCIAL-SENSITIVE

Valaciclovir 500mg tablets

- Ranbaxy and Aurobindo the generic suppliers are both out of stock with resupply dates to be confirmed.
- GSK, the supplier of the brand Valtrex, has confirmed sufficient supplies are available to meet normal UK demand.

Valproate semisodium tablets

- See the table below for a summary of the supply position with valproate semisodium tablets.

Brand	Strength	Current stock position	Anticipated re-supply date
Depakote	250mg	Out of stock	w/c 6 July 2020
	500mg	In stock	
Syonell	250mg	In stock	
	500mg	In stock	
Belvo	250mg	In stock	
	500mg	Out of stock	Mid-July 2020

Others

Fentanyl (Instanyl) 50mcg nasal spray

- Takeda are out of stock of Instanyl 50mcg nasal spray until late July 2020.
- Instanyl 100mcg and 200mcg nasal sprays remain available.
- Immediate release fentanyl products are not interchangeable and when considering switching patients from one product to another, patients should not be converted on a microgram per microgram basis from one to another; it is necessary to titrate the new formulation with advice from a specialist.
- UKMi memo on management options below:
<https://www.sps.nhs.uk/articles/shortage-of-actiq-lozenges-and-instanyl-nasal-spray-immediate-release-fentanyl-citrate/>

Fludrocortide 0.0125% cream and ointment

- Typharm Limited cannot release further stock of fludrocortide cream and ointment due to updates to their licences and changes to regulatory standards.
- There is no confirmed resupply date.
- Fludrocortide 4micrograms/cm² tape remains available.

Mesalazine (Salofalk) 1g suppositories

- Salofalk 1g suppositories are out of stock until mid-July 2020.
- Salofalk 500mg suppositories are currently available.
- Pentasa 1g suppositories remain available.
- UKMi memo on management options below:
<https://www.sps.nhs.uk/articles/shortage-of-salofalk-mesalazine-suppositories-500mg-and-1g/>
- An MSN was issued 1 November 2019 (shared previously).

COMMERCIAL-SENSITIVE

Eye drops/treatments

Betamethasone (Vistamethasone) 0.1% eye drops

- Martindale are out of stock until October 2020.
- RPH Pharma have sufficient supply of Betnesol eye/ear 0.1% drops to support the market.

Sofradex ear/eye drops

- Out of stock until October 2020.
- Alternative preparations for use in the ear/eye remain available.

Vaccines

For updates on other vaccine supply positions, please refer to PHE's Vaccine Update Bulletin found at the following address: <https://www.gov.uk/government/collections/vaccine-update#2019>

Hepatitis B Vaccines

Renal dose

- MSD's renal vaccine HBVAXPRO 40micrograms are still out of stock of until further notice. Please see statement: <http://www.msduk.com/products/vaccines.xhtml>
- GSK's Hepatitis B renal vaccine, Fendrix, is currently available.

Adult dose

- MSD are out of stock HBVAXPRO 10mcg vaccine until further notice
- GSK are confident they can support the increased demand during this time.

Pneumococcal Polysaccharide Vaccine 23-valent vaccine (PPV23) vials and Pneumovax 23 pre-filled syringes

- Limited supplies of Pneumovax pre-filled syringes and PPV23 vials are available. Further deliveries are expected in the next few months.
- Public Health England (PHE) have issued guidance on how available supplies should be managed at this time. This guidance advises the need for the prioritisation of patients considered to be in the high priority clinical risk group. Find full guidance on PHE's Vaccine Update Issue 300 (page 12): https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/844742/PHE_11388_vaccine_update_300_bug_special_october2019ppv.pdf

Discontinuations

Danazol 100mg/200mg capsules

- Danazol 100mg and 200mg capsules have been discontinued in the UK and remaining supplies of both strengths are now exhausted.
- An SDA was issued on 29 May:
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103048>

Diclofenac 25mg tablets (Genesis)

- Genesis are discontinuing diclofenac 25mg tablets from the UK market with immediate effect.
- There are other generic suppliers marketing diclofenac 25mg tablets.

COMMERCIAL-SENSITIVE

Duavive (conjugated oestrogens and bazedoxifene) tablets (Pfizer)

- Duavive tablets are being discontinued and stocks are expected to be exhausted by August 2020; this has been previously communicated to HCPs.
- There are no direct alternatives so patients should have HRT treatment reviewed.

Resolved (date resolved)

Bromocriptine 2.5mg tablets (24/6/20)

Calcium Chloride 10mmol/10ml and 5mmol/5ml injection and Calcium Chloride 10% Pre-Filled Syringes (5/6/20)

Diclofenac/misoprostol (Arthrotec 50) 50mg/200 microgram tablets (23/6/20)

Ergometrine 500mcg/ml injection (19/6/20)

Levofloxacin 500mg tablets (15/05/20)

Lorazepam (Ativan) 4mg/ml injection (17/6/20)

Medroxyprogesterone (Provera) 400mg tablets (23/6/20)

Mesalazine (Salofalk) 500mg suppositories (18/5/20)

Mitomycin 2mg injection (30/5/20)

Pancreatin (Creon) 25,000 capsules (5/6/20)

Phenytoin (Epanutin) 30mg/5ml oral suspension (2/6/20)

Propantheline 15mg tablets (10/6/20)

Metoprolol 50mg and 100mg tablets (ongoing issue, supplies available but limited number of manufacturers)

Rasagiline 1mg tablets (19/6/20)

Sertraline 50mg/100mg tablets (18/06/2020)

Sulfasalazine (Salazopyrin) 500mg suppositories (19/6/20)

Terazosin 5mg tablets (24/6/20)

Valproic acid (Convulex) 300mg capsules (19/6/20)

Combined hepatitis A & B (Twinrix) (05/2020)

Clenil Inhaler Range (05/2020)

Appendix

Table 2: HRT availability and anticipated resolution dates

		Oestrogen Only			
Ingredient (s)	Manufacturer	Brand	Strength	Current Availability	Anticipated resupply date
		Oral preparations			
Estradiol hemihydrate	Mylan	Elleste Solo	1mg	OOS	End of 2020
			2mg	OOS	
	Mylan	Zumenon	1mg	In stock	
			2mg	In stock	
Estradiol valerate	Bayer	Progynova	1mg	In stock	
			2mg	In stock	
Estradiol	Resource Medical UK	Bedol	2mg	Long term OOS	
Conjugated oestrogen	Pfizer	Premarin	300mcg	In stock	
			625mcg	In stock	
			1.25mg	In stock	
Ethinylestradiol	UCB pharma Ltd.	Ethinylestradiol	10mcg	Long term OOS	Unlicensed imports available; lead times vary
			50mcg	Long term OOS	
			1mg	Long term OOS	
Transdermal patches					
Estradiol	New owner: <u>Theramex</u>	Evorel	25 mcg	In Stock	
			50mcg	In Stock	
			75mcg	In Stock	
			100mcg	In Stock	
Estradiol hemihydrate	Novartis	Estradot	25 mcg	In stock	
			37.5mcg	In stock	
			50mcg	In stock	
			75mcg	In stock	
			100mcg	In stock	
	Merus Labs/Norgine	Estraderm	25 mcg	OOS	Mid- July 2020
			50mcg	OOS	
			75mcg	OOS	
			100mcg	OOS	
	Theramex	FemSeven Mono	50mcg	Long term OOS	End of 2020
			75mcg	Long term OOS	
			100mcg	Long term OOS	End of 2020
	Bayer	Progynova TS	50mcg	In stock	
			100mcg	In stock	
Mylan	Elleste Solo MX	40mcg	In stock		
		80mcg	In stock		
Topical (Transdermal gels/creams/other delivery systems)					

COMMERCIAL-SENSITIVE

Estradiol	Besins Healthcare (UK) Ltd	Oestrogel	0.06%	In stock	
Estradiol hemihydrate	Orion	Sandrena	0.5mg	In stock	
			1mg (28)	In stock	
			1mg (91)	In stock	
	Pfizer	E-string vaginal delivery system	7.5mcg/24hours	In stock	
	Novo Nordisk	Vagifem vaginal tablets	10mcg	In stock	
Estriol	Flynn Pharma	Blissel	50mcg/g	In stock	
	Marlborough Pharma	Estriol cream (generic)	0.01%	In stock	
	Aspen	Ovestin cream	1mg	In stock	
Progestogen only					
Medroxyprogesterone	Resource Medical UK	Climanor	5mg	long term OOS	
Levonorgestrel	Bayer	Mirena Intrauterine device	20mcg/24hr	In stock	
Progesterone	Besins Healthcare (UK) Ltd	Utrogestan	100mg	In stock	
		Utrogestan	200mg	In stock	
Combined HRTs (Progestogen and oestrogen)					
Continuous combined therapy					
Oral preparations					
Estradiol hemihydrate / norethisterone acetate	Mylan	Elleste Duet Conti	2mg / 1mg	OOS	End of 2020
	Novo Nordisk	Kliofem	2mg/ 1mg	In stock	
		Kliovance	1mg/ 500mcg	In stock	
Estradiol hemihydrate / dydrogesterone	Mylan	Femoston Conti	500mcg/ 2.5mg	In stock	
			1mg/ 5mg	In stock	
Estradiol valerate/medroxyprogesterone	Orion	Indivina	1mg /2.5mg	In stock	
			2mg/ 5mg	In stock	
			1mg/5mg	In stock	
low dose conjugated oestrogen/medroxyprogesterone	Pfizer	Premique	300mcg/1.5 mg	In stock	

COMMERCIAL-SENSITIVE

Transdermal patch					
Estradiol hemihydrate/ norethisterone acetate	New Owner: <u>Theramex</u>	Evorel Conti	3.2mg/11.2 mg	In stock	
Estradiol hemihydrate/ levonorgestrel	Theramex	FemSeven Conti	1.5mg/ 0.525mg	Long term OOS	End of 2020
Sequential combined therapy					
Oral preparations					
Estradiol [X,X] / norethisterone acetate	Resource Medical UK	Clinorette	[2mg, 2mg]/ 1mg	Long term OOS	
Estradiol/norgestrel	Mylan	Cyclo-progynova	2mg/500mc g	Long term OOS	
Estradiol hemihydrate / norethisterone acetate		Elleste Duet	1mg/ 1mg	OOS	End of 2020.
			2mg/ 1mg	OOS	
Estradiol hemihydrate/ dydrogesterone		Novo Nordisk	Femoston	1mg/ 10mg	In stock
	2mg/10mg			In stock	
Estradiol hemihydrate / norethisterone acetate	Novo Nordisk	Novofem	1mg/ 1mg	In stock	
Estradiol hemihydrate [X,X,X]/ norethisterone acetate		Trisequens	[2mg, 2mg, 1mg]/ 1mg	In stock	
Estradiol valerate/ medroxyprogesterone acetate	Orion	Tridestra	2mg/20mg	In stock	
Transdermal patch					
a) Estradiol hemihydrate and b) estradiol hemihydrate/ norethisterone acetate	New Owner: <u>Theramex</u>	Evorel Sequi	a)3.2mg b) 3.2 mg /11.2 mg	In stock	
a) 1.5mg of estradiol hemihydrate b) Estradiol hemihydrate /levonorgestrel	Theramex	FemSeven Sequi	a) 1.5mg b) 1.5mg /1.5mg	Long term OOS	End of 2020
Gonadomimetic (s)					
Tibolone 2.5mg	MSD/Advanz pharma	Livial tablets	Tibolone 2.5mg	In stock	
Selective oestrogen receptor modulator					
Ospemifene 60mg tablets	Shionogi	Senshio tablets	Ospemifene 60mg tablets	In stock	
Tissue-selective oestrogen complex					
Conjugated oestrogen 300mcg/ bazedoxifene 20mg	Pfizer	Duavive	conjugated oestrogen 300mcg/ bazedoxifen e 20mg	Discontinued	