

## Supply Issues Update for Primary and Secondary Care: November 2019

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 11 November 2019

### New Issues

#### Injectables

##### Genotropin (somatropin) 5.3mg GoQuick

- Pfizer are out of stock until 12 December 2019.
- All other doses and presentations within the Genotropin range remain available.

##### Mitomycin-C 2mg/10mg/20mg injection and Mitomycin-C 40mg intravesical solution

- Kyowa Kirin are out of stock due to quality control release and manufacturing delays with no date for resupply.
- No alternative supplies of UK licensed mitomycin are available in sufficient quantities to support this gap in supply.
- Please see the below links to the recent Supply Disruption Alerts (SDA) and an MHRA Class 2 recall for all unexpired Kyowa Kirin LTD Mitomycin-C products for further information:
- Latest update:  
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102921>
- Initial supply disruption alert:  
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102910>
- MHRA Class 2 recall:  
<https://www.cas.mhra.gov.uk/ViewAndAcknowledgment/viewAlert.aspx?AlertID=102920>
- Limited supplies of Medac mitomycin 40mg intravesical kits have been made available to provide some initial support with this supply issue:

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- Trust who urgently require intravesical mitomycin to contact their RPPS stating the urgency and volume required (maximum 10 kits). You may wish to consider the following as a priority: Patients completing a course of treatment and those already booked for surgery.
- All trusts are asked not to contact Medac directly as this only add pressure to the system and delays access to the product.
- Medac have provided a training video to support new users of the product, SPC and training material also attached. Video: <https://bc-care.co.uk/>

### Procyclidine 10mg/2ml injection

- Accord, sole supplier, are out of stock until March 2020.
- Consider sharing remaining stock locally with the support of your regional procurement lead.
- Unlicensed imports of procyclidine are not available.
- An alternative injectable anticholinergic agent, benztropine mesilate (unlicensed), is available from pharmaceutical importers.
- A medicine supply notification has been shared with secondary care (attached) which provides further information.

### Sodium thiosulfate 12.5g/50ml solution for injection vials

- Hope Pharmaceuticals, sole supplier, are currently experiencing a long term out of stock.
- UK licensed *Nithiodote*, also by Hope Pharmaceuticals, contains 1 vial of sodium thiosulfate 12.5g/50ml and 1 vial of sodium nitrite 300mg/10ml and is available to order at no extra cost.

## Orals

### Edronax (reboxetine) 4mg tablets

- Pfizer, sole supplier will be out of stock from 20 November to 20 December 2019 due to manufacturing issues.
- Parallel imports are available for pharmacies to order via their usual wholesaler routes.
- Unlicensed imports are also available; lead times vary.

### Ethinylestradiol 10microgram and 50microgram tablets

- UCB, sole supplier is out of stock due to manufacturing issues and currently unable to advise a resupply date.
- Unlicensed imports are available; lead times vary.

### Melphalan 2mg tablets

- Aspen, sole supplier are out of stock until 25 January 2020 due to site capacity constraints.
- Unlicensed imports are available; lead times vary.
- A medicine supply notification has been shared with secondary care (attached) which provides further information.

### Ongentys (opicapone) 50mg capsules

- Bial Pharma, sole supplier is out of stock until mid-January 2020.
- Very limited supplies of unlicensed opicapone capsules are available from importers.
- Refer to the SDA issued 25 October 2019 for further information:  
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102911>

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### Pethidine 50mg tablets

- Teva and Martindale are out of stock until early December and early 2020, respectively.
- Patients with insufficient supplies of pethidine 50mg tablets should be reviewed by a clinician to assess ongoing need.
- Where necessary, clinicians may wish to obtain specialist advice on alternative agents/or weaning.
- Unlicensed pethidine 50mg capsules are available from Martindale (using the PIP code P034790), however, there will be insufficient quantities to support full UK demand.
- A medicine supply notification will be shared with the NHS which provides further information.

### Relpax (eletriptan) 20mg tablets

- Pfizer, sole supplier is out of stock until mid-January 2020.
- Unlicensed imports are available; lead times vary.
- Where unlicensed supplies are deemed inappropriate UK Medicine Information have advised:
  - The licensed initial dose of eletriptan is 40 mg.
  - The 20mg strength of eletriptan may be used as the starting dose in patients with mild or moderate renal impairment.
  - Although 40mg eletriptan tablets are available, there are no data on halving or crushing them to deliver a 20mg dose.
  - However, there are several other 5HT<sub>1</sub>-receptor agonists (triptans) available that patients can switch to. Please refer to BNF or local formulary.
  - Choice of triptan will also depend on which ones have already been tried. In patients with renal impairment, please refer to SPC to check if a dose reduction is required.

### Seroxat (paroxetine) 10mg tablets

- GSK are out of stock until mid-December 2019 due to regulatory issues.
- Generic supplies of paroxetine 10mg tablets from other suppliers remain available.
- For patients prescribed Seroxat tablets by brand, who do not have sufficient supplies for the out of stock period, clinicians should consider prescribing the generic product.

### Synphase (ethinylestradiol and norethisterone) tablets

- Pfizer are out of stock until 20 December 2019.
- Alternative brands of phasic oral contraceptive tablets with a different dosing schedule and containing a different progestogen remain available.
- Unlicensed imports are available; lead times vary.
- A medicine supply notification will be shared with the NHS which provides further information.

### Wellvone (atovaquone) 750mg/5ml oral suspension

- GSK are out of stock until 1 December 2019.
- Glenmark can support demand for atovaquone 750mg/5ml oral suspension during this time.

## Others

### Fludroxycortide 0.0125% cream and ointment

- Typharm Limited cannot release further stock of fludroxycortide cream and ointment due to updates to their licences and changes to regulatory standards.
- Resupply is expected by March 2020.
- Fludroxycortide 4micrograms/cm<sup>2</sup> tape remains available.

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### Muse (alprostadil) urethral sticks

- Mylan is out of stock as a result of manufacturing difficulties affecting all strengths.
- The current anticipated resupply date is December 2019.
- There are alternative preparations of alprostadil available; they are not exact equivalents. Please refer to the SPCs for dosing.

### Phenylephrine 2.5% Minims eye drops solution

- Bausch and Lomb are experiencing supply issues across their phenylephrine Minims range.
- Minims phenylephrine 2.5% eye drops will be out of stock from the end of November 2019 until early January 2020.
- Limited unlicensed imports can be sourced; lead times vary.
- The Royal College of Ophthalmologists (RCOphth) has provided clinical guidance to support local prioritisation of remaining supplies and advice on alternative options where appropriate.
- See link below for the Supply Disruption Alert issued 14 November 2019:

<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102923>

### Salofalk (mesalazine) 500mg/1g suppositories

- Dr Falk Pharma are out of stock of Salofalk 500mg suppositories until 20 December 2019.
- Salofalk 1g suppositories are expected to be out of stock from late November until 20 December 2019.
- 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/>
- A medicine supply notification has been shared with the NHS (attached) which provides further information.

## Ongoing Issues

### Injectables

#### Acetylcholine Chloride 20mg powder and solvent for irrigation

- Miochol-E, by Bausch and Lomb, is out of stock until early December 2019 due to manufacturing delays.
- Farmigea, an alternative supplier, are also out of stock until January 2020.
- Unlicensed acetylcholine chloride 20mg is available from importers; lead times vary.
- UKMi memo on management options below:  
<https://www.sps.nhs.uk/articles/shortage-of-miochol-e-acetylcholine-20mg-powder-and-solvent-for-solution-for-intraocular-irrigation/>

#### 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 patient demand.

#### *Emerade (Bausch & Lomb UK Ltd)*

- Emerade 150 microgram and 500 microgram devices are currently available.
- Emerade 300 microgram devices are expected to be available late November 2019.
- On 3 October 2019, the MHRA issued a drug alert for all strengths of Emerade devices following reports from the manufacturer, Bausch & Lomb UK Limited, of Emerade devices that have failed to

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activate. In this situation, the needle of the pen is not released from the autoinjector when used, and a dose of adrenaline cannot be delivered.

- This issue makes it particularly important that users **carry two pens at all times**. Please see the link below for further information:

<https://www.gov.uk/drug-device-alerts/class-4-medicines-defect-information-emerade-150-300-and-500-microgram-solution-for-injection-in-pre-filled-syringe-mdr-57-08-19>

### *Jext (ALK-Abello Ltd)*

- Jext 150 microgram devices are currently available.
- UK licensed Jext 300 microgram is currently unavailable; supplies of an unlicensed Jext 300 microgram device are being supplied through Alliance Healthcare via the PIP code: 801-6941 (see company letter attached).
- A medicine supply notification has been shared with the NHS (attached) which provides further information.
- 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 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)*

- Supplies of both EpiPen and EpiPen Junior are currently available via a prescription validation process.
- Community Pharmacies can place orders for up to a maximum of two EpiPen's per prescription. Trusts place orders via Mylan's customer service team.
- 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 shortage, 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.

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### Amikacin 500mg/2ml injection

- Pfizer have intermittent supply issues with this line until end November 2019.
- Unlicensed imports are available if required; lead times vary.

### Azzalure (botulinum toxin type A) 125unit injection

- Galderma Ltd will have intermittent supplies until January 2020 due to supply challenges and increased demand.
- If Azzalure (which is only indicated for cosmetic use) is not available, *Botox* 50, 100 and 200unit and *Bocouture* 50 and 100unit can be used and are currently in stock.
- The alternative Botulinum type A toxins are available in a variety of different strengths and are not exact equivalents.
- Clinicians should refer to the SPCs for dosing.
- Galderma Ltd have supplied the following email for pharmacist enquiries:  
[MedinfoUK@galderma.com](mailto:MedinfoUK@galderma.com)

### Depo-Medrone (methylprednisolone acetate) with lidocaine (40mg/ml + 100mg/ml) suspension for injections

- Pfizer are out of stock of Depo-Medrone with lidocaine suspension 2ml vials (x10) until 6 December and 1ml vials (x10) until 15 November.
- There is currently sufficient supply of the single vial packs to support.

### Diamorphine 5mg and 10mg injection

- Accord are out of stock until March 2020 due to ongoing issues at their manufacturing plant in Europe.
- Wockhardt have insufficient stock to cover full forecasted demand in both primary and secondary care.
- There are insufficient volumes of other strength diamorphine injections to cover any shortfall.
- Primary care, private hospitals, hospices and substance misuse treatment centres can continue to order diamorphine, unrestricted, from usual wholesalers.
- **Secondary care should:**
  - continue to order diamorphine 5mg injection at 50% of historical demand;
  - from w/c 18 November, order diamorphine 10mg injection up to 60% of historical demand;
  - discuss this supply issue with clinical colleagues and consider local prioritisation of available diamorphine 5mg and 10mg stock;
  - continue to order morphine 10mg injection from Martindale in line with historic demand. Martindale CANNOT support increased orders;
  - order additional morphine 10mg injection from Hameln, who can support this supply issue;
  - consider how you will manage having two morphine 10mg injection presentations in your departments;
  - let your regional procurement specialist know of any local issues or if you are considering using an alternative other than morphine and;
  - cascade onto any relevant networks, who may find this information useful.
- For any concerns around patient safety, please contact your local Medication Safety Officer who will escalate to Nicola Wake (Medication Safety Lead, Specialist Pharmacy Service).
- UKMi guidance to support the management of this supply issue can be found at:  
<https://www.sps.nhs.uk/articles/shortage-of-diamorphine-5-and-10mg/>
- A medicine supply notification has been shared with the NHS (attached) which provides further information.

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### Erwinase (crisantaspase) 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 2019.
- Jazz Pharmaceuticals distributes Erwinase and supplies are currently available.
- Jazz Pharmaceuticals works closely with the clinical networks and supplies are prioritised on a patient need basis in conjunction with the treating clinicians.

### Lanoxin (digoxin) 250mcg/ml injection

- Aspen, sole supplier are out of stock until February 2020.
- Unlicensed imports are available; lead times may vary.
- UKMi memo on management options below:  
<https://www.sps.nhs.uk/articles/shortgae-of-lanoxin-digoxin-250-micrograms-ml-injection/>

### Neurobloc (Botulinum Toxin Type B)

- Neurobloc (Botulinum Toxin Type B) will not be available until mid-December 2019 due to the product being divested from Eisai to Sloan Pharma.
- Unlicensed Botulinum Toxin Type B is available from importers; lead times vary.

### Oily Phenol 5% (almond oil) injection

- Martindale, sole suppliers are out of stock due to packaging delays until February 2020.
- There is a small quantity of stock remaining in wholesalers.

### Sayana Press (medroxyprogesterone acetate 104mg) injection

- Pfizer are out of stock of Sayana Press injection until further notice due to manufacturing delays.
- Depo-Provera (medroxyprogesterone acetate 150mg) is currently available and able to support the market during this time, should clinicians deem a switch appropriate.
- See the attached letter from Pfizer for further information.
- On 23 October, the MHRA issued a class 2 medicines recall for Sayana Press injection. See the link below for further details:  
<https://www.gov.uk/drug-device-alerts/class-2-medicines-recall-sayana-press-104mg-0-65ml-mdr-055-06-19>

### Tetracosactide 1mg depot injection

- Mallinckrodt, sole suppliers will be out of stock until the second half of 2020.
- Unlicensed imports are available; lead times vary.

### Tobramycin 240mg/6ml injection

- Pfizer are out of stock until early December 2019.
- There is sufficient 80mg/2ml available from both Pfizer and Flynn (via Alloga) to cover full usage and Trusts are advised to switch to this strength during the out of stock period.
- Reserve any 240mg/6ml injection for patients who are unable to switch to the 80mg/2ml, for example, those who use via a nebuliser.

### Urokinase injection

- Syner-Med are currently in stock of all strengths of urokinase injection.
- Supply restrictions will remain in place until 31 January 2020.
- Details of suggested alternative products, if required, can be found in the UKMi memo below:

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<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/>

- All suppliers of the suggested alternatives have sufficient supplies available to support during this time.
- Additional information for the product Taurolock is attached. To place orders for this product, contact [customerservice@kimal.co.uk](mailto:customerservice@kimal.co.uk) and copy [louise.kelly@kimal.co.uk](mailto:louise.kelly@kimal.co.uk)

## Orals

### Accupro (quinapril) 10mg/40mg tablets

- Pfizer, sole supplier of quinapril tablets is out of stock of Accupro 10mg until end November and Accupro 40mg until early January 2019.
- Accupro 5mg and 20mg tablets remain available.
- UKMi have issued the following advice regarding halving the 20mg scored tablets:
  - The 20mg quinapril tablets are scored, however manufacturers state this scored line is for facilitating breaking of tablets for ease of swallowing and may not divide in equal doses. It is unlikely that the distribution in the tablet will be significantly different in the two halves. Therefore, the majority of patients should not experience problems with splitting tablets and taking half of a 20mg tablet to equate 10mg dose.
  - Alternatively, an alternative ACE inhibitor can be prescribed (captopril, enalapril, fosinopril, imidapril, lisinopril, perindopril, ramipril andtrandolapril). There are no guidelines on converting patients between doses but considering 5mg is the lowest strength available it would be recommended to start with the lowest strength of the alternative ACE inhibitor and titrate the dose upwards, according to response.

### Accuretic (quinapril 10mg/hydrochlorothiazide 12.5mg) tablets

- Pfizer are currently out of stock.
- Pfizer anticipate a resupply in early January 2020.
- There are several alternative combination preparations of ACE-Inhibitors with diuretics and UKMi have advised that patients can be safely switched, with clinical supervision.
- Unlicensed quinapril 10mg/hydrochlorothiazide 12.5mg tablets are available from importers; lead times vary.

### Adalat (nifedipine) tablets

- There are ongoing supply issues with the Adalat Retard and LA range from Bayer. Alternative nifedipine presentations continue to remain available from generic suppliers.
- Supplies of nifedipine 5mg and 10mg immediate release soft gel capsules are now available from Relonchem.
- Please see the attached letter from Bayer and the shortages memo from UKMi:  
<https://www.sps.nhs.uk/articles/shortage-of-adalat-nifedipine/>

### Carbagen (carbamazepine) various preparations

- Carbamazepine is considered a Category 1 anti-epileptic medication and patients should normally be maintained on the same brand, however Mylan (manufacturers of Carbagen) will be out of stock of the below products until March 2020:
  - Carbagen 200mg and 400mg immediate release tablets
  - Carbagen 200mg and 400mg modified release tablets

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- Patients currently prescribed Carbagen tablets will need to be switched to an alternative brand of carbamazepine tablets during this time.
- Novartis, the manufacturer of Tegretol tablets, the alternative brand of carbamazepine, have confirmed that all presentations are currently available that they are able to support additional demand during this time for all affected strengths and formulations.
- DHSC have worked with NHSE/I and UKMi to develop a clinical memo, which has been produced to support clinicians in prioritising and switching patients:  
<https://www.sps.nhs.uk/articles/shortage-of-carbagen-carbamazepine-tablets/>

#### Co-fluampicil 250mg/250mg capsules

- Crescent are out of stock until 29 November 2019.
- Clinicians are advised to prescribe flucloxacillin and ampicillin capsules as separate preparations, considering patients' ability to swallow an increased number of capsules.
- Ampicillin 250mg and 500mg capsules are available from Crescent and Chemidex.
- Ampicillin oral suspensions (125mg/5ml and 250mg/5ml) are also available from Chemidex.

#### Colestid (colestipol) 5g granules

- Pfizer are out of stock of Colestid plain granules until 22 November 2019.
- Colestid Orange granules are available.
- Unlicensed Colestid plain granules are available from importers; lead times vary.
- Clinicians should refer to the UKMI memo for advice on alternatives if required:  
<https://www.sps.nhs.uk/articles/shortage-of-bile-acid-sequestrants/>

#### Diazepam 2mg/5ml oral solution

- Sandoz, sole supplier is out of stock until the end of November 2019.
- Diazepam 2mg/5ml (sugar-free) oral solution is available from alternative suppliers.

#### Disopyramide 150mg capsules

- Mylan, sole supplier is out of stock until mid-December 2019.
- Unlicensed imports are available from importers; lead times vary.
- Disopyramide **100mg** capsules (*Rythmodan*) are available from Sanofi.
- See link below for the Supply Disruption Alert issued 14 June 2019:  
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102869>
- A medicine supply notification will be shared with the NHS which provides further information.

#### Epanutin (phenytoin) 50mg Chewable Infatabs

- Pfizer are out of stock until mid-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 can be found attached.

#### Fluoxetine 10mg/30mg/40mg capsules

- Advanz, suppliers of fluoxetine 10mg capsules are out of stock until early December 2019.
- Morningside are currently in stock of fluoxetine 10mg capsules.
- Fluoxetine 10mg tablets remain available from Endo Ventures.
- Advanz, sole supplier of fluoxetine 30mg and 40mg capsules are out of stock of both strengths until beginning December/mid-November, respectively.

#### COMMERCIAL-SENSITIVE

- Fluoxetine 20mg capsules and fluoxetine 20mg/5ml oral solution remain available from multiple suppliers.
- Serious shortage protocols (SSPs) were first issued on 3 October. Current SSPs are in place for fluoxetine 30mg and 40mg capsules. See the below link for further information:  
<https://www.nhsbsa.nhs.uk/pharmacies-gp-practices-and-appliance-contractors/serious-shortage-protocols-ssps>

#### Fluoxetine (Olena) 20mg dispersible tablets

- Advanz, sole supplier is out of stock until February 2020.
- Fluoxetine 20mg/5ml oral solution is available from several suppliers.

#### Galantamine 8mg/12mg tablets

- Teva will be out of stock of their immediate release galantamine preparations (8mg and 12mg) until 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.

#### Hormone Replacement Therapy products (HRT)

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

#### *Elleste oral HRT Range*

- Mylan, sole supplier, has been experiencing ongoing manufacturing issues at their contract manufacturing site since the beginning of 2019.
- Mylan have now advised whilst new manufacturing arrangements are being confirmed, the Elleste range will be unavailable from the end of November/beginning of December 2019 until mid-2020.
- Current forecasted out of stock dates for specific Elleste products are listed in **Table 1 and 2**.
- See **Table 1** below for equivalent alternatives to the Elleste range.

**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	In stock until end of November	Progynova 1mg	estradiol hemihydrate	In stock
			Zumenon 1mg		In stock
Elleste Solo 2mg	estradiol hemihydrate	In stock until end of November	Progynova 2mg	estradiol hemihydrate	In stock
			Zumenon 2mg		In stock
Elleste Duet Conti	estradiol 2mg/ norethisterone 1mg	OOS	Kliefem	estradiol 2mg/ norethisterone 1mg	In Stock
Elleste Duet 1mg	estradiol 1mg/ norethisterone 1mg	In stock until mid-November	NovoFem	estradiol 1mg/ norethisterone 1mg	In Stock

## COMMERCIAL-SENSITIVE

### *Evorel transdermal patch range*

- On 24 October 2019, Janssen-Cilag divested the Evorel range (Evorel, Evorel Conti and Evorel Sequi) to Theramex UK Ltd.
- Theramex have advised a resupply date of February 2020.
- Most preparations will be out of stock from November 2019; others are expected to last until early 2020. Current forecasted out of stock dates for specific Evorel products are listed in Table 2.
- UKMi have published guidance to advise on suitable alternatives. This provides a range of alternative options and highlights the need for prescribers to seek specialist advice for more complex patients and consider prioritising the use of transdermal HRT therapy for women at increased risk of venous thrombosis:  
<https://www.sps.nhs.uk/articles/shortage-of-evorel-hormone-replacement-therapy-hrt-patch-range/>
- Unlicensed imports are available; lead times vary.

### *FemSeven transdermal patch range*

(FemSeven Mono (estradiol only); FemSeven Sequi and Conti (estradiol/ levonorgestrel)).

- 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 Q2 2020.
- Unlicensed imports for FemSeven Mono are available; lead times vary.

### *Indivina (estradiol/medroxyprogesterone) 1mg/2.5mg and 2mg/5mg tablets*

- Orion, sole manufacturer is out of stock of both strengths until January 2020 due to manufacturing issues.
- Unlicensed imports are available; lead times vary.

### *Indivina (estradiol/medroxyprogesterone) 1mg/5mg tablets*

- Orion, sole supplier is out of stock until end of November 2019 due to manufacturing issues.
- Unlicensed imports are available; lead times vary.

### *Hypovase (prazosin) 1mg tablets*

- Pfizer, sole supplier is out of stock until 10 January 2020.
- Hypovase 0.5mg tablets remain available.

### *Levofloxacin 250mg tablets*

- Accord, sole suppliers are out of stock until December 2019.
- UKMi have confirmed that levofloxacin 500mg tablets can be divided into equal doses to provide a 250mg dose.
- Supplies of levofloxacin 500mg tablets are currently available from Accord and Teva.

### *Metoprolol 50mg and 100mg tablets*

- There are ongoing supply issues affecting metoprolol 50mg and 100mg tablets.
- The issue has been caused by some manufacturers discontinuing the products and others having supply difficulties.
- Aurobindo-Milpharm are currently the sole supplier of both presentations in the UK.
- Supplies of both presentations are currently available but may be limited; supply is likely to be intermittent for several months.

#### COMMERCIAL-SENSITIVE

- See the link below for a UKMi memo with input from clinical experts at NHSE/I, which advises on management options:  
<https://www.sps.nhs.uk/articles/shortage-of-metoprolol-50mg-and-100mg-tablets/>
- The manufacturer of carvedilol has indicated it would be unable to meet demand if patients were switched to this product. Manufacturers of bisoprolol, atenolol and propranolol have indicated they have capacity to support any additional demand on their products.

#### Mianserin 10mg/30mg tablets

- Mylan, sole supplier is out of stock of both strengths until the end of 2019.
- For patients who do not have sufficient supplies of mianserin tablets for the duration of the expected out of stock period, **clinicians should consider prescribing an unlicensed preparation** of mianserin tablets as soon as possible in order to avoid abrupt withdrawal.
- Unlicensed imports can be sourced from abroad; lead times may vary.
- In order for pharmacies to dispense an unlicensed drug, FP10 prescriptions must indicate that a special is required/prescribed by the GP. This could include the GP annotating the prescription with the following wording: “special order”.
- For patients in whom unlicensed imports are not appropriate, DHSC have commissioned clinical advice which recommends:

#### Patients who have been prescribed mianserin for < 6 months

1. GP to start mirtazapine at a low dose depending on clinical judgement and the Summary of Product Characteristics (SPC)
2. Consider psychological therapies

#### Patients who have been prescribed mianserin for > 6 months

1. GP to start mirtazapine at a low dose depending on clinical judgement and the SPC
2. Seek specialist secondary care advice on management options

#### Moclobemide 150mg and 300mg tablets

- Mylan are out of stock of moclobemide 150mg tablets and are unable to provide a resupply date. Sandoz can support the market during this time.
- Sandoz are out of stock of moclobemide 300mg tablets with a resupply date of January 2020. Mylan can support the market during this time.

#### Nardil (phenelzine sulfate) 15mg tablets

- Kyowa Kirin, sole supplier is out of stock until at least March 2020 due to manufacturing delays.
- Unlicensed imports are available from the following specialist importer companies: Clinigen, Target, Alium, Mawdsleys, Durbin, WEP Clinical and Waymade. Lead times may vary.
- Unlicensed imports can be obtained through normal wholesaler routes. If unable to obtain through wholesalers, pharmacists are advised to contact the relevant specialist importers directly.
- UKMi have also published guidance on management including the need for specialist referral to mental health teams if unlicensed supplies of phenelzine sulfate 15mg tablets are deemed unsuitable:  
<https://www.sps.nhs.uk/articles/shortage-of-phenelzine-15mg-tablets-nardil/>

#### Oral Contraceptive Pill products (OCP)

##### *Noriday (norethisterone) 350 micrograms tablet*

- Pfizer are out of stock until 22 November 2019.

COMMERCIAL-SENSITIVE

- UKMI have advised that there are no exact equivalent preparations in the UK market and clinicians should refer to CKS guidance for advice on alternative POPs:  
<https://cks.nice.org.uk/contraception-progestogen-only-methods#!scenario>

Physeptone (methadone) 1mg/1ml oral solution

- Please see an overview of the current supply situation below:

Product	Pack Sizes	Manufacturers	Stock status	Further Detail
Physeptone 1mg/ml Oral Solution	100ml	Martindale Pharmaceuticals	Out of stock	Resupply dates are: sugar free – 24 Jan 2020 sugared – 13 Dec 2019
	500ml		In stock	Available from wholesalers
	2.5Litre			
Methadone 1mg/ml Oral Solution: Sugar Free and Sugared Formulations	100ml	Rosemont Pharmaceuticals	In stock	Special; Order direct
	500ml	Thornton and Ross		Available from wholesalers
	500ml			

Provera (medroxyprogesterone) tablets

- Pfizer are out of stock of Provera 100mg tablets until 13 December 2019 due to manufacturing delays.
- Provera 200mg tablets are also out of stock until 20 December 2019.
- Provera 400mg tablets currently remain available.
- Unlicensed imports of medroxyprogesterone 100mg tablets are available; lead times vary.
- For patients in whom unlicensed supplies are not considered appropriate a referral to secondary care cancer specialists will be required for consideration of alternative options, as per the UKMI memo below:  
<https://www.sps.nhs.uk/articles/shortage-of-provera-medroxyprogesterone-acetate-100mg-tablets/>
- A medicine supply notification will be shared with the NHS which provides further information.

Questran (colestyramine) Powder for Oral Suspension

- Bristol-Myers Squibb (BMS) divested the Questran range to Cheplapharm at the end of July 2019.
- Cheplapharm are out of stock of Questran Powder 4g sachets until mid-2020.
- Unlicensed imports of Questran sachets are available from importers; lead times vary.
- Supplies of Questran Light are currently available through Alliance Healthcare.
- Mylan have recently launched a generic colestyramine 4g light sachet that will be available in wholesalers w/c 18 November 2019.

Ranitidine oral preparations

- There are supply issues affecting several manufacturers of ranitidine tablets, effervescent tablets and oral solutions.
- This is due to a regulatory investigation into possible contamination of the active substance with N-nitrosodimethylamine (NDMA), a probable carcinogen.
- Refer to the Central Alerting System (CAS) alert issued 15 October 2019 for further information:  
<https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=102904>

## COMMERCIAL-SENSITIVE

### Seroxat (paroxetine) 10mg/5ml oral solution

- GSK are out of stock until end January 2020.
- Unlicensed imports of paroxetine 10mg/5ml oral solution are available from importers; lead times vary.
- See above for information on Seroxat 10mg tablets. Generic paroxetine tablets remain available and UKMi have advised that tablets can be crushed and mixed with water for administration (off-label use). The crushed tablets are bitter and have a slight local anaesthetic effect.

### Stemetil (prochlorperazine) 5mg in 5ml oral syrup

- Sanofi are out of stock until end of December 2019.
- Other presentations of prochlorperazine remaining are:
  - Buccal (maleate) 3mg
  - Injection (mesylate) 12.5mg
  - Tablets (maleate) 5mg
- UKMi memo on management options below:  
<https://www.sps.nhs.uk/articles/shortage-of-stemetil-prochlorperazine-5mg-5ml-syrup/>

### Trifluoperazine tablets

- There have been ongoing manufacturing issues affecting trifluoperazine 1mg and 5mg tablets causing long term issues with supplies not expected before mid-2020.
- Concordia and Rosemont have trifluoperazine liquid and supplies are available.
- Unlicensed imports of trifluoperazine tablets are available from importers; lead times vary.

## Tuberculosis medications

### *Ethambutol 100mg tablets*

- Morningside are out stock of this product until mid-December 2019.
- Thornton & Ross are also out of stock until early December 2019.
- Kent Pharmaceuticals Ltd are in stock but are unable to support any uplift in demand.
- Unlicensed supplies are available; lead times vary. Contact your Regional Procurement Lead for further information.

### *Ethambutol 400mg tablets*

- Thornton & Ross are out of stock until late January 2020.
- Kent Pharmaceuticals are out of stock until early February 2020.
- Intraparm are out of stock with no date for re-supply.
- Morningside can support during this time.

### *Isoniazid 50mg tablets*

- RPH pharmaceuticals manufacture isoniazid 50mg tablets and are out of stock until December 2019.
- Morningside can support with 100mg tablets and an unlicensed special manufactured liquid is available from Ennogen and Rosemont.
- Please see the attached memo for information on halving isoniazid 100mg tablets.

### *Pyrazinamide 500mg tablets*

- Morningside are out stock until early December 2019.
- Thornton & Ross are in stock and can support during this time.

## COMMERCIAL-SENSITIVE

### *Rifadin (rifampicin) 300mg capsules*

- Sanofi will be out of stock from mid-November until mid-December 2019.
- Rifadin 150mg capsules remain available.

### *Rifater tablets*

- Sanofi, sole supplier of this combination anti-tuberculosis product, is experiencing a delay in its manufacture with resupply not expected before December 2019.
- Unlicensed supplies are available; lead times vary.

### *Rifinah (rifampicin/isoniazid) 150mg/100mg tablets*

- Sanofi are out of stock with re-supply expected early December 2019.
- Unlicensed supplies are available; lead times vary.

## Others

### Anusol Ointment

- Church & Dwight UK Limited are out of stock until January 2020.
- Anusol cream and Anusol suppositories remain available.

### Capsaicin (Zacin) 0.025%/(Axsain) 0.075% cream

- Teva, sole supplier is out of stock until at least December 2019.
- Unlicensed imports are available from importers; lead times vary.
- For patients in whom unlicensed imports are not appropriate, UKMI have produced a clinical memo on alternative treatments:

<https://www.sps.nhs.uk/articles/shortage-of-capsaicin-cream-zacin-and-axsain/>

### Instanyl (fentanyl) nasal spray

- Takeda are currently out of stock of all strengths of Instanyl nasal sprays with resupply dates as follows:
  - 50mcg - no current resupply date
  - 100mcg - end-November 2019
  - 200mcg - end-December 2019
- 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/>

## Eye drops/treatments

### **Allergan**

#### Lacri-Lube

- Out of stock due to an ongoing manufacturing issue. Allergan are unable to provide a re-supply date at this stage.

#### COMMERCIAL-SENSITIVE

- The Royal College of Ophthalmology is aware of the Lacri-Lube shortage and is recommending Xailin Night Ointment. <https://www.rcophth.ac.uk/standards-publications-research/quality-and-safety/medicines-safety/drugs-shortages/>.

#### **Bausch and Lomb**

##### Lotemax

- Out of stock until early December 2019.

##### Phenylephrine 10% Minims eye drops solution

- Out of stock until early January 2020.
- Unlicensed phenylephrine 10% minims are currently available from Clinigen and Mawdsleys; lead times vary.

#### **RPH Pharmaceuticals AB**

##### Betamethasone Eye Ointment 0.1% w/w x 3g

- RPH Pharmaceuticals AB, have advised that following the discontinuation of Betnesol Eye Ointment 0.1% w/w x 3g they have experienced manufacturing problems which have resulted in the nonviability of launching a generic Betamethasone Eye Ointment 0.1% w/w x 3g.

##### Betnesol (betamethasone 0.1%) eye/ear/nose drops

- RPH Pharmaceuticals are currently out of stock of betamethasone 0.1% eye/ear/nose drops with a resupply date of late 2019. Martindale Pharma can support the full market during this time.

## 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.

#### Measles, Mumps and Rubella (MMR) vaccine

- Limited supplies of Priorix (GSK) and MMRVAXPRO (MSD) are available for the private market (locally procured stock) until February 2020 due to global increase in demand.
- This supply issue does not impact the nationally procured MMR vaccine used for the Public Health England's (PHE) national programme.
- Most of the MMR vaccinations provided in the UK are nationally procured by PHE and delivered as part of a national immunisation programme.

#### Menveo (meningitis A, C, W, Y):

- GSK have confirmed there is limited supply of Menveo.

#### COMMERCIAL-SENSITIVE

- Pfizer have confirmed they are in stock of Nimenrix and currently able to support increased demand.

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

- MSD, sole supplier of PPV23 vaccine, have limited supplies of both the PPV23 vials and Pneumovax pre-filled syringes until January 2020.
- 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](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/844742/PHE_11388_vaccine_update_300_bug_special_october2019ppv.pdf)

Rabipur (rabies vaccine)

- Limited supply of GSK's Rabipur is currently available. Supply issues resulting from manufacturing constraints have now resolved, however, GSK do not expect the situation to fully normalise until late 2019.
- Sanofi Pasteur have confirmed they are able to support the full market during this time with their unlicensed Rabies vaccine, Verorab
- NATHNAC have issued further information available at the following link: <https://travelhealthpro.org.uk/news/389/rabies-vaccine-availability>

## Discontinuations

Danol (danazol) 100mg and 200mg capsules (Sanofi)

- Danol 100mg capsules will be discontinued with immediate effect.
- Danol 200mg capsules will be discontinued in March 2020.
- Supplies of generic danazol 100mg and 200mg capsules remain available from Mylan.

Dihydrocodeine 10mg/5ml oral solution (Ethypharm)

- Dihydrocodeine 10mg/5ml oral solution has been discontinued with supplies expected to be exhausted during November 2019.
- Dihydrocodeine tablets remain available and can be crushed and dispersed in water to administer part doses (unlicensed use).
- If it is not appropriate to crush the tablet, morphine sulphate liquid is another treatment option. Please refer to the BNF, the BNF-C or a local paediatric formulary, for dosing information.
- For patients already on dihydrocodeine liquid who require a switch to morphine liquid, approximate dose conversion is by factor of 0.1 (e.g. 30 mg dihydrocodeine  $\approx$  3 mg oral morphine). Caution and careful monitoring are required during conversion to avoid both under dosing and excessive dosing.
- Clinical advice should be sought if these treatment options are not considered suitable for the patient.

Glibenclamide 2.5mg and 5mg tablets (Wockhardt)

- Glibenclamide 2.5mg and 5mg tablets have been discontinued with immediate effect.
- Unlicensed imports are available from importers; lead times vary.
- *Amglidia*, glibenclamide 6mg/ml oral suspension, licensed for neonatal diabetes, remains available for direct order from Amring Pharma.
- UKMi memo link below:

<https://www.sps.nhs.uk/articles/discontinuation-of-glibenclamide-2-5-and-5-0-mg-tablets/>

## COMMERCIAL-SENSITIVE

### Imbruvica (ibrutinib) tablets (Janssen Cilag)

- Imbruvica tablets are being discontinued in the UK and supplies will cease in November.
- Imbruvica capsules were launched earlier this year and replace the tablet formulation.

### Modecate (fluphenazine decanoate) injection (Sanofi)

- Manufacture of Modecate (fluphenazine decanoate) injection has ceased
- Existing stock of Modecate Injection (25 mg/ml) expired in August 2019.
- Existing stock of Modecate Concentrate Injection (100 mg/ml) will expire in August 2020 – stock will not be released after 29<sup>th</sup> February 2020.
- Prescribers should complete arrangements to transfer patients on Modecate to therapeutic alternatives under medical supervision.
- Unlicensed imports are available from importers; lead times vary.

### Palladone (hydromorphone) 50mg/ml injection

- NAPP Pharmaceuticals Limited have discontinued Palladone 50mg/ml injection.
- Hydromorphone 50mg/ml injection is available to order from Martindale as a special.
- Order via [order@ethypharm.com](mailto:order@ethypharm.com) or call 0800 137 627 using order code 178586.

### Zaditen (ketotifen) 1mg tablets (Alfasigma)

- Alfasigma are withdrawing Zaditen 1mg tablets from the UK market.
- Unlicensed ketotifen 1mg capsules are available from importers; lead times vary.

### Zaditen (ketotifen) 1mg/5ml elixir (Alfasigma)

- Alfasigma are withdrawing Zaditen 1mg/5ml elixir from the UK market.
- Remaining supplies are available to order via wholesalers.

COMMERCIAL-SENSITIVE

## Resolved (date resolved)

Accupro (quinapril) 5mg tablets (13/11/19)  
 Brevinor (norethisterone 500 micrograms and ethinylestradiol 35 micrograms) tablets (18/10/19)  
 Colestid (colestipol) orange 5g granules (18/10/19)  
 Cytotec (misoprostol) 200microgram tablets (7/11/19)  
 Delmosart (methylphenidate) XL 18mg tablets (6/11/19)  
 Detrusitol XL (tolterodine) 4mg capsules (7/11/19)  
 Flamazine (silver sulfadiazine) 1% cream (29/10/19)  
 Gabitril (tiagabine) 10mg tablets (28/10/19)  
 Gabitril (tiagabine) 5mg/15mg tablets (13/11/19)  
 Indocid (indometacin) 100mg suppositories (22/10/19)  
 Nifedipine 5mg and 10mg immediate release soft gel capsules (08/10/19)  
 NuvaRing (11.7 mg etonogestrel/2.7 mg ethinylestradiol) vaginal delivery system (11/11/19)  
 Oncaspar (pegaspargase) 750 U/ml solution for injection/infusion (28/10/19)  
 Prostin E2 (dinoprostone) 3mg vaginal tablets (28/10/19)  
 Rifadin (rifampicin) 150mg capsules (21/10/2019)  
 Rifinah (rifampicin/isoniazid) 300mg/150mg tablets (13/11/19)  
 Tostran (testosterone) 2% gel (10/19)  
 Zidovudine 250mg capsules (11/19)  
 Zumenon (estradiol) 1mg and 2mg tablets (11/19)

Table. 2 HRT Availability

		Oestrogen Only			
Active Ingredient (s)	Manufacturer	Brand	Strength	Current Availability	Anticipated resupply date
		Oral preparations			
Estradiol hemihydrate	Mylan	Elleste Solo	1mg	In stock until end of November	Mid- 2020.
			2mg		
	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		Ethinylestradiol	10mcg	OOS	Resupply date unavailable.

COMMERCIAL-SENSITIVE

	UCB pharma Ltd.		50mcg	OOS	Unlicensed imports available; lead times vary
			1mg	In stock	
<b>Transdermal patches</b>					
Estradiol	New owner: <u>Theramex</u>	Evorel	25 mcg	In stock until February 2020	February 2020. Unlicensed imports available; lead times vary
			50mcg	In stock until mid-November 2019	
			75mcg	OOS	
			100mcg	OOS	
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	In stock	
			50mcg	In stock	
			75mcg	In stock	
			100mcg	In stock	
	Theramex	FemSeven Mono	50mcg	OOS	Mid 2020 Unlicensed imports available; lead times vary
			75mcg	OOS	
			100mcg	OOS	Mid 2020
	Bayer	Progynova TS	50mcg	In stock	
			100mcg	In stock	
Mylan	Elleste Solo MX	40mcg	In stock		
		80mcg	In stock		
<b>Topical (Transdermal gels/creams/other delivery systems)</b>					
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	

COMMERCIAL-SENSITIVE

Estriol	Flynn Pharma	Blissel	50mcg/g	In stock	
	Marlborough Pharma	Estriol cream (generic)	0.01%	In stock	
	Aspen	Ovestin cream	1mg	In stock	
<b>Progestogen only</b>					
Medroxyprogesterone	Resource Medical UK	Climanor	5mg	long term OOS	
Levonorgestrel	Bayer	Mirena Intrauterine device	20mcg/24hrs	In stock	
Progesterone	Besins Healthcare (UK) Ltd	Utrogestan	100mg	In stock	
		Utrogestan	200mg	In stock	
<b>Combined HRTs (Progestogen and oestrogen)</b>					
<b>Continuous combined therapy</b>					
<b>Oral preparations</b>					
Estradiol hemihydrate / norethisterone acetate	Mylan	Elleste Duet Conti	2mg / 1mg	OOS	Mid 2020
	Novo Nordisk	Kliefem	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	OOS	January 2020. Unlicensed imports available; lead times vary. End of November 2019. Unlicensed imports available; lead times vary.
			2mg/ 5mg	OOS	
			1mg/5mg	OOS	
low dose conjugated oestrogen/medroxyprogesterone	Pfizer	Premique	300mcg/1.5mg	In stock	
<b>Transdermal patch</b>					
Estradiol hemihydrate/ norethisterone acetate	New Owner: <u>Theramex</u>	Evorel Conti	3.2mg/11.2mg	In stock (packs of 8 patches) until end of November 2019	Mid 2020 Unlicensed imports available; lead times vary
Estradiol hemihydrate/ levonorgestrel	Theramex	FemSeven Conti	1.5mg/ 0.525mg	Long term OOS	Mid 2020
<b>Sequential combined therapy</b>					
<b>Oral preparations</b>					

COMMERCIAL-SENSITIVE

Estradiol [X,X] / norethisterone acetate	Resource Medical UK	Clinorette	[2mg, 2mg]/ 1mg	Long term OOS	
Estradiol/norgestrel	Mylan	Cyclo-progynova	2mg/500mcg	Long term OOS	
Estradiol hemihydrate / norethisterone acetate		Elleste Duet	1mg/ 1mg	In stock until mid-November	Mid- 2020.
				In stock until end of November	
Estradiol hemihydrate/ dydrogesterone		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	
<b>Transdermal patch</b>					
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	OOS	February 2020. Unlicensed imports available; lead times vary
a) 1.5mg of estradiol hemihydrate b) Estradiol hemihydrate /levonorgestrel	Theramex	FemSeven Sequi	a) 1.5mg b) 1.5mg /1.5mg	Long term OOS	Mid -2020
<b>Gonadomimetic (s)</b>					
Tibolone 2.5mg	Advanz Pharma	Livial tablets	Tibolone 2.5mg	In stock	
<b>Selective oestrogen receptor modulator</b>					
Ospemifene 60mg tablets	Shionogi	Senshio tablets	Ospemifene 60mg tablets	In stock	
<b>Tissue-selective oestrogen complex</b>					
Conjugated oestrogen 300mcg/ bazedoxifene 20mg	Pfizer	Duavive	conjugated oestrogen 300mcg/ bazedoxifene 20mg	In stock	