

Supply Issues Update for Primary and Secondary Care: June 2021

This report has been produced by the Department of Health and Social Care (DHSC) Medicine Supply Team. We aim to produce 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 Serious Shortage Protocol (SSP) has been issued*', this will be found [here](#).

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Information provided: w/c 31 May 2021

New Issues

Injectables

Dehydrated Alcohol (Absolute Alcohol) BP for Injection

- Absolute Alcohol (ethanol 100%) BP for injection is out of stock until early July 2021.
- Specialist importers can source unlicensed products. Lead times vary.
- In cases where alternative treatments are inappropriate, Trusts are advised to contact their Regional Pharmacy Procurement Specialist who may be able to facilitate stock sharing via mutual aid.

Esketamine (Vesierra) 25mg/ml and 5mg/ml solution for injection

- Vesierra 25mg/ml and 5mg/ml solution for injection is out of stock until November 2022.
- Sintetica launched esketamine 25mg/ml and 5mg/ml preservative free injection on 1 June 2021 which is available from Mawdsley's.

Lorazepam (Ativan) 4mg/ml solution for injection

- Pfizer are out of stock with no confirmed date for resupply. See DHCP letter attached.
- Macure Pharma, a new entrant to the lorazepam 4mg/ml injection market have stock available through Oxford Pharmacy Stores (NHS hospitals) and Chapper Healthcare (all other customers).

Urokinase (Syner-KINASE) 10,000IU injection

- Syner-KINASE 10,000IU injection is out of stock from early June until September 2021. See DHCP letter (attached).
- Details of suggested alternative products can be found in the [UKMi memo](#).
- See information below regarding Syner-KINASE 25,000IU injection.
- An MSN was issued 27 May 2021 (attached).

Orals

Calcium gluconate 544mg/5ml / calcium lactate 276mg/5ml oral solution (Alliance Calcium syrup)

- Alliance Calcium Syrup is out of stock until mid-September 2021.
- Patients in primary care should be referred to secondary care centres for review and management during the out-of-stock period.
- Any remaining supplies of Alliance Calcium Syrup should be reserved for neonates and patients in whom alternative options are not appropriate.
- All other patients should be switched to an alternative calcium formulation.
- An MSN was issued 27 May 2021 (attached).

Dihydrocodeine (DHC Continus) 60mg modified release tablets

- Supplies of dihydrocodeine 60mg modified release tablets may be limited between mid to late June 2021.

COMMERCIAL-SENSITIVE

- Supplies of dihydrocodeine 30mg and 40mg immediate release tablets and dihydrocodeine 90mg and 120mg modified release tablets remain available.

Fluoxetine (Olena) 20mg dispersible tablets

- Advanz, sole supplier is out of stock until the end of June 2021.
- Fluoxetine 20mg/5ml oral solution remains available.
- An MSN will be issued shortly.

Others

Diclofenac (Voltarol Ophtha Multidose) 0.1% eye drops

- Voltarol Ophtha Multidose eye drops 5ml are out of stock until mid-July 2021.
- Voltarol Ophtha 0.1% eye drops 0.3ml unit dose preservative free eye drops remain available and can support the uplift in demand.

Lidocaine 5%/hydrocortisone 0.275% (Xyloproct) ointment

- Aspen Pharmacare are currently out of stock until w/c 19 July 2021.
- Alternate topical anaesthetic/steroid preparations remain available:
 - Uniroid- HC (cinchocaine hydrochloride 5mg/hydrocortisone 5mg) ointment
 - Scheriproct (cinchocaine hydrochloride 5mg/prednisolone hexanoate 1.9g) ointment
 - Proctosedyl (cinchocaine hydrochloride 5mg/hydrocortisone 5mg) ointment

Ongoing Issues

Injectables

Adrenaline Auto-Injectors (AAIs)

- There are currently sufficient supplies of EpiPen and Jext to meet normal UK demand.
- The advice remains to conserve supplies of AAIs for patients who truly need them. All healthcare professionals providing services where anaphylaxis treatment may be required should have the competency to draw up and administer adrenaline from ampoules with a normal syringe and needle.
- We ask that when you renew the adrenaline in your anaphylaxis kits, you alert all your staff to please stock ampoules (ensuring you also include dosing charts, needles and syringes) and not AAIs.
- The [Green Book](#) and [Resus Council guidance](#) provides additional advice to healthcare professionals on the use of adrenaline in response to anaphylaxis.

Emerade (Bausch & Lomb UK Ltd)

- On [4 March](#), [7 April](#) and [18 May](#) 2020, the MHRA issued a patient level recall for Emerade 150microgram, 300microgram and 500microgram devices, respectively.
- Patients and/or carers should return Emerade 150, 300 and 500microgram auto-injectors to their local pharmacy once they have obtained a prescription for, and been supplied with, an alternative brand.

Bleomycin 15,000unit powder for solution for injection vials

- Accord, sole supplier is out of stock of bleomycin 15,000unit injection until at least Q3 2021.
- Specialist importers can source unlicensed products. Lead times vary.

COMMERCIAL-SENSITIVE

- See discontinuation section below for information on Bleo-Kyowa injection.
- An updated MSN was issued 15 May 2020 (shared previously).

Calcitonin (salmon) 50units/1ml solution for injection ampoules

- Essential Pharma, sole supplier only has short-dated stock available (expiry 31/10/2021).
- Customers can order direct from Movianto if supplies are not available via wholesalers.
- Next resupply is expected in March 2022.
- Calcitonin (salmon) 100units/1ml solution for injection ampoules remain available and can support the uplift in demand if required.

Diamorphine 5mg and 10mg injection

- There have been intermittent supplies of diamorphine 5mg and 10mg injections available since early 2020.
- Accord is out of stock of both strengths with no re-supply date.
- Wockhardt is expecting resupply of diamorphine 5mg during w/c 7 June 2021. Diamorphine 10mg is out of stock until late June 2021.
- An MSN was issued on the 9 April 2021 (shared previously) reminding clinicians of the permanent actions they were asked to take in the [Supply Disruption Alert](#) for diamorphine ampoules issued 25 March 2020.

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

- Diazemuls 10mg/2ml emulsion for injection is out of stock long term.
- Lorazepam 4mg/ml solution for injection is now available and able to support a full uplift in demand.
- Unlicensed imports of diazepam 10mg/2ml emulsion for injection can be sourced. Lead times vary.
- An updated MSN was issued 27 May 2021 (attached).

Human normal Immunoglobulin (IVIg 10%)

- There is limited supply of all brands of 10% IVIg until July 2021.
- Trusts are advised to utilise stock of all brands of available IVIg to treat any indicated acute conditions.
- Regional Pharmacy Procurement Specialists (RPPSs) will support mutual aid across Trusts based on local stock holding, if required.
- Small additional volumes of 10% IVIg are available to support additional acute demand. To access this stock local trusts will firstly need approval from their Sub Regional Immunoglobulin Assessment Panel. Following approval, the RPPS should be contacted who will escalate to the Commercial Medicines Unit (CMU) if stock cannot be found from mutual aid.
- An MSN was issued 29 April 2021 (shared previously).

Mitomycin 2mg and 10mg powder for solution for injection/infusion

- Mitomycin 2mg and 10mg vials are out of stock with no date for resupply.
- Other vial sizes of mitomycin for injection and/or infusion remain available including 20mg from Vygoris Ltd via Mawdsley's and 40mg from Accord-UK Ltd.
- Mitomycin for intravesical use remains available including 20mg from Vygoris Ltd and 40mg from Medac GmbH.
- Specialist importers can source unlicensed products. Lead times vary.
- An updated MSN was issued 24 December 2020 (shared previously).

COMMERCIAL-SENSITIVE

Ranitidine 50mg/2ml injection

- Ranitidine 50mg/2ml injection is out of stock until further notice.
- An updated MSN was issued 30 March 2021 (shared previously).
- Further advice on alternative intravenous acid suppressants for paediatric patients can be found via the SPS website [here](#).

Somatropin 200microgram MiniQuick (Genotropin) device

- Genotropin 200microgram MiniQuick devices are out of stock until the end of October 2021.
- All other Genotropin lines remain available.

Tenecteplase (Metalyse) 10,000 units powder and solvent for solution for injection

- Metalyse is out of stock with resupply expected in October 2021.
- UKMi have advised that alteplase (Actilyse) can be used as an alternative to tenecteplase.
- All strengths of Actilyse remain available and can support the increase in demand.
- Specialist importers can source unlicensed products. Lead times may vary.
- Ambulance services requiring further supplies of tenecteplase should contact their local Trust who may have stock to share/be able to source unlicensed supplies from specialist importers.

Tetracosactide (Synacthen Depot) 1mg depot injection

- Atnahs Pharma, sole suppliers will be out of stock until late July 2021.
- Specialist importers can source unlicensed products. Lead times vary.

Urokinase (Syner-KINASE) 25,000IU injection

- Syner-KINASE 25,000IU injection is out of stock until September 2021.
- Syner-KINASE 100,000IU injection remains available and can support an uplift in demand (see DHCP attached).
- Details of other suggested alternative products, if required, can be found in the [UKMi memo](#).
- See information above regarding Syner-KINASE 10,000IU injection.
- An MSN was issued 27 May 2021 (attached).

Verteporfin (Visudyne) 15mg powder for solution for infusion

- UK licensed Visudyne is out of stock until January 2022.
- Visudyne from the USA (considered unlicensed in the UK) is currently available in restricted quantities from Neon Healthcare.
- Unlicensed imports cannot currently be sourced by specialist importer companies.
- Remaining supplies of Visudyne should be reserved for the treatment of ocular cancer patients.
- An MSN was issued 27 May 2021 (attached).

Orals

Cloral betaine 707mg tablets

- Atnah's, sole supplier, are out of stock with resupply expected in November 2021.
- Alternative medicines for insomnia remain available.

COMMERCIAL-SENSITIVE

Chloral hydrate 143.3mg/5ml oral solution

- Chloral hydrate 143.3mg in 5ml oral solution is out of stock until September 2021.
- Specials manufacturers have confirmed they can manufacture chloral hydrate 143.3mg in 5ml oral solution to meet demand of the licensed product.
- An MSN was issued 30 March 2021 (shared previously).

Colestipol (Colestid) orange and plain 5g granules sachets

- Colestid plain sachets are out of stock with a resupply date to be confirmed.
- Colestid orange sachets are out of stock until w/c 14 June 2021 with only limited supplies available thereafter.
- UKMi have prepared a [clinical memo](#) containing further information on alternative bile-acid sequestrants.
- An MSN was issued 26 February 2021 (shared previously).

Colestyramine (Questran) Powder for Oral Suspension

- Cheplapharm are out of stock of Questran Powder 4g sachets until January 2022.
- Specialist importers can source unlicensed products. Lead times vary.
- Colestyramine light 4g sugar free sachets remain available.
- UKMi have prepared a [clinical memo](#) containing further information on alternative bile-acid sequestrants.

Contraceptive products (oral)

- See the table below for a summary of the supply position of oral contraceptive products.
- An updated MSN was issued 18 March 2021 (shared previously).

Product affected	Ingredients	Anticipated resupply date	Management Advice
Noriday	Norethisterone 350 microgram tablets	w/c 7 June 2021	<ul style="list-style-type: none"> – There are no exact equivalent preparations available in the UK market (see information below). – Clinicians are advised to refer to CKS guidance and BNF for advice. – Unlicensed imports have been sourced; lead times vary.
Norinyl-1	Mestranol 50microgram / Norethisterone 1mg tablets	w/c 5 July 2021	<ul style="list-style-type: none"> - There are no exact equivalent preparations available in the UK market (see information below). - Clinicians are advised to refer to CKS guidance and BNF for advice. - Unlicensed imports have been sourced; lead times vary.
Norgeston	Levonorgestrel 30mg tablets	w/c 28 June 2021	<ul style="list-style-type: none"> - There are no exact equivalent preparations available in the UK market (see information below).

COMMERCIAL-SENSITIVE

			<ul style="list-style-type: none"> - Clinicians are advised to refer to CKS guidance and BNF for advice. - Unlicensed imports have been sourced; lead times vary.
Qlaira	Estradiol valerate / Dienogest (various strengths)	w/c 25 Oct 2021	<ul style="list-style-type: none"> - See SmPC- Qlaira for full list of active ingredients. - There are no exact equivalent preparations available in the UK market (see information below). - Clinicians are advised to refer to CKS guidance and BNF for advice.
Yiznell	Ethinylestradiol 30microgram / Drospirenone 3mg tablets	w/c 7 June 2021	<ul style="list-style-type: none"> - Equivalent alternatives with the same composition remain available from suppliers of the following brands: Dretine, Yacella, Ellanite and Lucette.

Donepezil 10mg orodispersible tablets

- Donepezil 10mg orodispersible tablets are out of stock until the end of June 2021.
- The brand *Aricept Evess* remains available and can support an uplift in demand.

Fentanyl (Abstral) 800microgram sublingual tablets

- Abstral 800microgram sublingual tablets are out of stock until w/c 7 June 2021.
- Abstral 400microgram sublingual tablets remain available and can support an uplift in demand.

Fluoxetine 10mg tablets

- Endo Ventures are out of stock of fluoxetine 10mg tablets until March 2022.
- Fluoxetine 10mg capsules and fluoxetine 20mg/5ml oral solution remain available.
- A [serious shortage protocol](#) (SSP) was issued on 12 March 2020.
- An MSN was issued 12 March 2020 (shared previously).

Fluoxetine 30mg capsules

- Advanz, sole supplier is out of stock with resupply date to be confirmed.
- Fluoxetine 10mg and 20mg capsules remain available.
- A [serious shortage protocol](#) (SSP) was issued on 20 October 2020.
- An MSN was issued 21 October 2020 (shared previously).

Haloperidol 5mg/5ml oral solution sugar free

- Haloperidol 5mg/5ml oral solution sugar free is out of stock until late July 2021.
- Haloperidol (Haldol) 2 mg/ml oral solution is the only licensed oral solution that can support an uplift in demand.
- Haloperidol 500microgram, 1.5mg, 5mg and 10mg tablets remain available.
- Specials manufacturers have confirmed they can manufacture haloperidol 5mg/5ml oral solution sugar free.
- An MSN was issued 28 October 2020 (shared previously).

COMMERCIAL-SENSITIVE

Histamine (H2) antagonists

- See the table below for a summary of the supply position with oral H2 antagonists.
- An updated MSN was issued 18 March 2021 (shared previously).

Product	Supplier	Current Stock Position	Anticipated resupply date	Suggested management plan
Famotidine 20mg tablets	Tillomed	In stock	n/a	Unlicensed supplies have been sourced
	Teva	Out of stock	End June 2021	
Famotidine 40mg tablets	Tillomed	In stock	n/a	
	Teva	Out of stock	End June 2021	
Cimetidine 200mg tablets	Ennogen	Out of stock	End June 2021	
	Medreich	Out of stock	To be confirmed	
	Medley	Out of stock	End June 2021	
Cimetidine 400mg tablets	Ennogen	Out of stock	End June 2021	
	Medreich	Out of stock	To be confirmed	
	Medley	Out of stock	End June 2021	
Cimetidine 800mg tablets	Ennogen	Out of stock	End June 2021	
	Medreich	Out of stock	To be confirmed	
Cimetidine 200mg/5ml oral solution (sugar free)	Rosemont	In stock	n/a	
Cimetidine (Tagamet) 200mg/5ml syrup	Essential Pharma	In stock	n/a	
Nizatidine 150mg capsules	Viatrix	In stock	n/a	
	Medreich	Out of stock	To be confirmed	
	Relonchem	In stock	n/a	
Nizatidine 300mg capsules	Viatrix	In stock	n/a	
	Medreich	Out of stock	To be confirmed	
	Relonchem	In stock	n/a	

Hormone Replacement Therapy products (HRT)

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

Estradot 75microgram patches

- Novartis is out of stock until w/c 7 June 2021.
- Alternative estradiol 75microgram patches remain available.
- A [serious shortage protocol](#) (SSP) was issued on 29 April 2021.
- An MSN was issued 29 April 2021 (shared previously).

Ethinylestradiol 10microgram/50microgram tablets

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

COMMERCIAL-SENSITIVE

FemSeven Transdermal patch range

- Theramex have confirmed that whilst new manufacturing arrangements are being established, the FemSeven range will be out of stock until September 2021 except for FemSeven Conti which is now back in stock.
- Specialist importers can source unlicensed products. Lead times vary.

Progynova 2mg tablets

- Bayer are out of stock until w/c 21 June 2021.
- Progynova 2mg tablets remain available from parallel importers.
- Alternative estradiol tablets remain available.

Irbesartan/hydrochlorothiazide 150mg/12.5mg tablets

- Irbesartan/hydrochlorothiazide 150mg/12.5mg tablets are out of stock until w/c 7 June 2021.
- Irbesartan/hydrochlorothiazide 300mg/25mg tablets are unscored oval shaped tablets and not suitable for halving.
- Irbesartan 150mg tablets are available and can support an uplift in demand; hydrochlorothiazide tablets were discontinued years ago.
- An alternative thiazide diuretic, bendroflumethiazide 2.5mg, is available and can support an uplift in demand.
- A switch to separate components but using bendroflumethiazide 2.5mg tablets in place of hydrochlorothiazide, is an option for patients who run out of irbesartan/hydrochlorothiazide tablets.
- Consider prescribing an alternative fixed-dose antihypertensive combination product containing an angiotensin II receptor blocker with hydrochlorothiazide if the above option is not appropriate or adherence to separate components is in doubt.
- An updated MSN was issued 11 May 2021 (attached).

Isosorbide mononitrate (Isotard) 50mg modified release tablets

- Kyowa Kirin, sole supplier is out of stock until w/c 14 June 2021.
- Limited emergency stock is available for order through Kyowa Kirin Medical Information: medinfo@kyowakirin.com.
- Isosorbide mononitrate 50mg modified release capsules remain available.
- If the formulation is switched patients should be reassured that they are receiving the same treatment and to seek advice in the unlikely event of experiencing an increase in side effects, such as headache, or an increase in use of glyceryl trinitrate.

Isosorbide mononitrate (Imdur) 60mg modified release tablets

- Topridge, sole supplier, is out of stock with a resupply date to be confirmed.
- Parallel imports remain available as well as other brands of isosorbide mononitrate 60mg modified release tablets.
- If the brand is switched, reassure patients that they are receiving the same treatment and to seek advice in the unlikely event of experiencing an increase in side effects, such as headache, or an increase in use of glyceryl trinitrate.

Itraconazole 10mg/ml oral suspension

- Thame Laboratories and Kent Pharma are out of stock until w/c 28 June 2021.
- Supplies remain available from Janssen-Cilag (Sporanox brand).

COMMERCIAL-SENSITIVE

Naftidrofuryl 100mg capsules

- Accord is out of stock with resupply expected in August 2021.
- The brand, Praxilene, remains available and can support an uplift in demand.

Phenelzine sulphate (Nardil) 15mg tablets

- Neon Healthcare, the new suppliers of Nardil are currently out of stock. Resupply date is to be confirmed.
- Specialist importers can source unlicensed imports of the tablets.
- Supplies of phenelzine 15mg capsule specials are also available. Further information can be found in the SDA.
- An [SDA](#) was issued 25 June 2020 and a subsequent update was issued 3 July 2020.

Phillips' Milk of Magnesia 415mg/5ml (magnesium hydroxide) oral suspension

- Omega Pharma are out of stock until October 2021.
- Alternative antacids and laxatives remain available.

Promethazine 25mg tablets

- Teva are out of stock until w/c 14 June 2021.
- Promethazine (Phenergan) 25mg tablets remain available from Sanofi.

Ranitidine oral preparations

- Ranitidine tablets, effervescent tablets and oral solution are out of stock until further notice due to global regulatory investigations.
- An updated MSN was issued 30 March 2021 (shared previously).

Tapentadol (Palexia) 20mg/ml oral solution

- Batches of Palexia 20mg/ml oral solution have been [recalled](#) due to potential microbial contamination with resupply not expected until mid-2022.
- Palexia 50mg tablets remain available.

Trifluoperazine 1mg/5ml syrup

- Trifluoperazine 1mg/5ml syrup is out of stock until late July 2021.
- Trifluoperazine 1mg and 5mg tablets remain available and can support an increase in demand.
- Specials manufacturers have confirmed they can manufacture trifluoperazine 1mg/5ml oral suspension.
- Trifluoperazine 5mg/5ml oral solution remains available and can support an increase in demand.
- An MSN was issued 10 November 2020 (shared previously).

Other

Desmopressin (Desmospray) 10micrograms/actuation nasal spray

- Ferring Pharmaceuticals have [recalled](#) Desmospray with resupplies expected Q3 2023.

COMMERCIAL-SENSITIVE

- Desmopressin 10micrograms/actuation nasal spray remains available from Aspire Pharma Ltd.

Desmopressin (Octim) 150microgram/actuation nasal spray

- Desmopressin (Octim) 150 micrograms/actuation nasal spray is out of stock until Q3 2023.
- Ferring Pharmaceuticals have [recalled](#) Octim nasal sprays as a precautionary measure due to a lower volume of solution being observed and out of specification results of desmopressin acetate and benzalkonium chloride.
- Desmopressin (Octim) 15 micrograms/ml injection remains available and can be prescribed as an alternative.
- Unlicensed imports of desmopressin 150micrograms per dose nasal spray can be sourced.
- An MSN was issued 2 October 2020 (shared previously).

Fentanyl (Instanyl) 100 microgram and 200 microgram nasal sprays

- Takeda are out of stock of Instanyl 100microgram and 200microgram nasal sprays with resupply expected at the end of July 2021.
- Instanyl 50microgram nasal spray remains 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 have prepared a [clinical memo](#) containing further information.
- The UK recall notice for Instanyl 100microgram can be found [here](#).

Fluticasone (Flixotide) 100microgram Accuhaler

- GSK, sole supplier is out of stock until w/c 28 June 2021.
- Flixotide 50microgram Evohalers can support a partial uplift in demand.
- Flixotide 50microgram Accuhalers can support a partial uplift in demand.
- Flixotide 125microgram Evohalers remain available and can support a full uplift in demand.
- Specialist importers can source unlicensed products. Lead times vary.
- An MSN was issued 11 May 2021 (attached).

Gemeprost (Cervagem) 1mg pessary

- Sanofi, sole supplier, is out of stock until w/c 28 June 2021.
- Clinical alternatives remain available.

Metronidazole (Acea) 0.75% gel

- Ferndale Pharmaceuticals are out of stock of Acea 0.75% gel until mid-August 2021.
- Metrogel 0.75% and Rozex gel 0.75% gel remain available.
- An MSN was issued on 17 July 2020 (shared previously).

Vaccines

For updates on vaccine supply positions, please refer to PHE's [Vaccine Update Bulletin](#).

Discontinuations

Bleomycin (Bleo-Kyowa) 15,000unit powder for solution for injection vials (Kyowa Kirin)

- Kyowa Kirin have discontinued Bleo-Kyowa injection with immediate effect. They have been out of stock since 2020.
- Accord is out of stock of bleomycin 15,000I.U. injection until at least Q3 2021.
- Specialist importers can source unlicensed products. Lead times vary.
- An updated MSN was issued 15 May 2020 (shared previously).

Calcium carbonate (Cacit) 1.25g effervescent tablets sugar free (Accord)

- Accord have discontinued Cacit tablets and genericized the product.
- The equivalent generic product, calcium 500mg TAB effervescent, is now available.

Capecitabine (Xeloda) 150mg and 500mg tablets (Roche)

- Roche have discontinued Xeloda 150mg and 500mg tablets with immediate effect.
- Capecitabine 150mg and 500mg tablets remain available from several other suppliers.

Desmopressin (DDAVP) 0.01% w/v intranasal solution (Ferring)

- Ferring have confirmed that they are unable to resolve the manufacturing issues with DDAVP (desmopressin) 0.01% w/v (100micrograms/ml) intranasal solution, therefore the product will be discontinued.
- Supplies of desmopressin 100micrograms/ml nasal spray (10 micrograms per actuation) remain available from Aspire Pharma Ltd and can fully support demand during this time for patients on doses ≥ 10 microgram.
- Unlicensed imports of desmopressin 100micrograms/ml intranasal solution can be sourced.
- An updated MSN was issued 27 May 2021 (attached).

Gefitinib 250mg tablets (Wockhardt)

- Wockhardt have discontinued gefitinib 250mg tablets from the market with immediate effect.
- Gefitinib 250mg tablets remain available from several other suppliers.

Griseofulvin (Grisol AF) 1% spray (Transdermal)

- Transdermal intends to discontinue Grisol AF (griseofulvin) 1% spray from the UK market with immediate effect.
- Alternate treatments for athlete's foot remain available.

Human Papillomavirus Vaccine [Types 6, 11, 16, 18] (Recombinant, adsorbed) (Gardasil) suspension for injection 0.5ml pre-filled syringes (MSD)

- Merck, Sharp and Dohme have discontinued Gardasil for the private market only. This does not affect supply of Gardasil for the National Immunisation Programme.
- Stocks are expected to be exhausted by the end of June 2021.

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- Gardasil 9 remains available to support the market.

Prazosin (Hypovase) 1mg tablets (Pfizer)

- Pfizer have discontinued Hypovase 1mg tablets with immediate effect following a long period of out of stock (see DHCP letter attached).
- Hypovase 500 microgram tablets are available and able to support the full market demand for both strengths.

Sodium bicarbonate 500mg capsules (Teva)

- Teva have discontinued sodium bicarbonate 500mg capsules with immediate effect.
- Sodium bicarbonate 500mg capsules remain available from Relonchem who have indicated that they can meet any increase in demand.

Resolved

Docusate sodium 100mg capsules (5/21)

Fludrocortide 0.0125% cream (11/5/21)

Fluoxetine 40mg capsules (11/5/21)

Irbesartan/hydrochlorothiazide 300mg/12.5mg tablets (20/5/21)

Lorazepam 4mg/ml solution for injection (3/5/21)

Mianserin 10mg tablets (18/5/21)

Moclobemide 150mg and 300mg tablets (27/5/21)

Phenobarbital 30mg/ml solution for injection (25/5/21)

Pioglitazone 15mg/metformin 850mg (Competact) tablets (13/5/21)

Pneumovax 23 (PPV-23) pre-filled syringes (10/5/21)

Rifampicin 300mg/isoniazid 150mg (Rifinah) tablets (28/5/21)

Voriconazole 40mg/ml powder for oral suspension (21/5/21)

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Appendix

Table 2: HRT availability and anticipated resolution dates

Ingredient (s)	Manufacturer	Brand	Strength	Current Availability	Anticipated resupply date
		Oral preparations			
Oestrogen Only					
Estradiol hemihydrate	Mylan	Elleste Solo	1mg	In stock	
			2mg	In stock	
	Mylan	Zumenon	1mg	In stock	
			2mg	In stock	
Estradiol valerate	Bayer	Progynova	1mg	In stock	
			2mg	In stock (limited)	
Conjugated oestrogen	Pfizer	Premarin	300 microgram	In stock	
			625 microgram	In stock	
			1.25mg	In stock	
Ethinylestradiol	UCB pharma Ltd.	Ethinylestradiol	10 microgram	Long term OOS	Unlicensed imports available; lead times vary
			50 microgram	Long term OOS	
			1mg	Long term OOS	
Transdermal patches					
Estradiol	Theramex	Evorel	25 microgram	In Stock	
			50 microgram	In Stock	
			75 microgram	In Stock	
			100 microgram	In Stock	
Estradiol hemihydrate	Novartis	Estradot	25 microgram	In stock	Resupplies due w/c 7 th June 2021
			37.5 microgram	In stock	
			50 microgram	In stock	
			75 microgram	Out of stock	
			100 microgram	In stock	
	Merus Labs/Norgine	Estraderm	25 microgram	In stock	
			50 microgram	In stock	
			75 microgram	In stock	
100 microgram			In stock		

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	Theramex	FemSeven Mono	50 microgram	Long term OOS	Resupplies due September 2021
			75 microgram	Long term OOS	
			100 microgram	Long term OOS	
	Bayer	Progynova TS	50 microgram	In stock	
			100 microgram	In stock	
	Mylan	Elleste Solo MX	40 microgram	In stock	Product will be discontinued in October 2021
80 microgram			In stock (limited)	Product will be discontinued in July 2021	
Topical (Transdermal gels/creams/other delivery systems)					
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	7.5 microgram / 24hours	In stock	
	Novo Nordisk	Vagifem vaginal tablets	10 microgram	In stock	
Estriol	Flynn Pharma	Blissel	50 microgram/g	In stock	
	Marlborough Pharma	Estriol cream (generic)	0.01%	In stock	
	Aspen	Ovestin cream	1mg	In stock	
Progestogen only					
Levonorgestrel	Bayer	Mirena Intrauterine device	20 microgram /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	In stock	
	Novo Nordisk	Kliofem	2mg/ 1mg	In stock	
		Kliovance	1mg/ 500 microgram	In stock	

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Estradiol hemihydrate /	Mylan	Femoston Conti	500 microgram / 2.5mg	In stock	
Dydrogesterone			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	300 microgram /1.5mg	In stock	
Transdermal patch					
Estradiol hemihydrate/ norethisterone acetate	Theramex	Evorel Conti	3.2mg/11.2mg	In stock	
Estradiol hemihydrate/ levonorgestrel		FemSeven Conti	1.5mg/ 0.525mg	In stock	
Sequential combined therapy					
Oral preparations					
Estradiol hemihydrate / norethisterone acetate	Mylan	Elleste Duet	1mg/1mg	In stock	
			2mg/1mg	In stock	
Estradiol hemihydrate/ dydrogesterone		Femoston	1mg/10mg	In stock	
			2mg/10mg	In stock	
Estradiol hemihydrate / norethisterone acetate	Novofem	1mg/1mg	In stock		
a)Estradiol hemihydrate b)Estradiol hemihydrate/norethisterone acetate c)Estradiol hemihydrate	Novo Nordisk	Trisequens	a)1mg b)2mg/1mg c)1mg	In stock	
Estradiol valerate/ medroxyprogesterone acetate	Orion	Tridestra	2mg/20mg	In stock	
Transdermal patch					
a) Estradiol hemihydrate and b) estradiol hemihydrate/ norethisterone acetate	Theramex	Evorel Sequi	a)3.2mg b) 3.2 mg /11.2 mg	In stock	
a) 1.5mg of estradiol hemihydrate b) Estradiol		FemSeven Sequi	a) 1.5mg b) 1.5mg /1.5mg	Long term OOS	Resupplies due end of 2021

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hemihydrate /levonorgestrel					
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	In stock	