SHORTAGE: Shortage	Medicines affected		
of Testosterone	Tostran 2% gel (Kyowa Kirin Ltd)		
(Tostran) 2% gel			
	Actions for prescribers		
	Clinicians should:		
	review patients to determine	if this is still the most suita	able therapy
	consider prescribing an altern		
	not intolerant to any of the e		
	dose and how to administer	•	
	<ul> <li>if the above options are not of from appainlists on management</li> </ul>		vice should be sought
	from specialists on managem	ient options.	
	Alternatives		
	<ul> <li>Testogel 16.2mg/g pump</li> </ul>		
	Testogel 40.5mg/2.5g gel sac	hets	
	Testavan 23mg/1.15g pump		
	Clinical Information		
	Licensed use of topical testosterone	:	
	Testosterone replacement therapy for	71 <b>e</b>	
	deficiency has been confirmed by clir	nical features and biochemi	cal tests.
	Off label use:		
	Testosterone gel is used in women w	ith decreased libido in the	menopause.
	Switching products Please refer to table below to select a	an alternative product bace	d on the current doce
	of testosterone that the patient is rec	•	
	of testosterone when switched and t		
	testosterone levels, and signs and syn	nptoms related to testoste	rone deficiency.
	Tostran 2% gel pump – Out of stock		
	No. Pump actuations (depressions)	Testosterone dose (mg)	
	1	10	
	2	20	
	4	40	
	6	60	
	8	80	
	Testogel 16.2mg/g pump – In stock v	with supplier	
	No. Pump actuations (depressions)	Testosterone dose (mg)	
	1	20.25	
	2	40.5	
	3	60.75	
	4	81	

		mg/2.5g gel sachets – In		
	No. Sachets	Testosterone dose (mg	<u>;</u> )	
	1/2 sachet	20.25		
	1 sachet	40.5		
	2 sachets	81		
	Testavan 23m demand)	ng/1.15g pump – In stoc	k with supplier (can supp	ort partial uplift in
	No. Pump ac	tuations (depressions)	Testosterone dose (mg)	
	1		23	
	2		46	
	3		69	
	Medicine Sup MSN/2023/06	ply Notification		
Shortage of Ketamine	Anticipated re	•••		
(Ketalar) 10mg/ml solution for injection	6 October 202	23		
vial (Schedule 2	Actions			
controlled drug)	prescribe, dis	bense or administer keta their local Medication Sa	v and secondary care inclu mine 10mg/1ml solution afety Officer (MSO) should	for injection vials,
	stock Ketala Trusts inject Pharn produ If furt betwe Pharn If esse 50mg neede prese soluti are in where consid inject <b>differ</b>	holding and their allocat ar 10mg/1ml solution for are advised to order G. ion in line with current u hacy teams should under ict (see Supporting Infor- her supplies of ketamine een September and Octo hacy Procurement Specia ential to maintain supply /1ml solution for injection ed. Local clinical decision ntation is <b>five times mon</b> on for injection, and MU place to avoid dosing er e licensed alternatives ar der prescribing unlicense ion, taking into account f	e 10mg/1ml solution for in ober, Trusts should contact alist. , clinical teams can consid on (from September 2023 making should take into a re concentrated than keta ST ensure all appropriate rors (see below); re not available or appropriate d imports of ketamine 10 these products could be to the safety advice in Support nce that references use of	any unlicensed Swiss zer previously supplied. /ml solution for cified allocation. nt before using this jection are required t their Regional er prescribing ketamine onwards) where account this mine 10mg/1ml patient safety measures riate, clinical teams may mg/1ml solution for wice as potent or in ing information); f ketamine 10mg/1ml

	<ul> <li>measures should be applied to avoid dosing errors and patient harm when using higher strength or unlicensed ketamine, for example, before administration, the volume is checked by two staff members.</li> <li>Alternatives <ul> <li>Unlicensed imports of ketamine 10mg/ml solution for injection have been sourced via specialist importers have been sourced. Please see Supporting Information on how to order.</li> <li>There are limited supplies of unlicensed Swiss ketamine (Ketalar) 10mg/1ml solution for injection imported by Pfizer. Please order via Regional Pharmacy Procurement Specialists (RPPS).</li> <li>Ketamine 50mg/1ml solution for injection vials remain available but cannot currently support a full uplift in demand until September 2023.</li> <li>There are patient safety implications which need to be considered when switching preparations. Please see Supporting Information below.</li> </ul> </li> <li>Medicines Supply Notification Number MSN/2023/043U</li> </ul>
Shortage of	Anticipated re-supply date
Shortage of Rasburicase (Fasturtec) 7.5mg powder and solvent for solution for infusion vials	<ul> <li>Anticipated re-supply date 7 June 2024</li> <li>Actions Clinicians should: <ul> <li>Use multiples of the 1.5mg vials to make the required dose. FIVE x 1.5mg vials are equivalent to ONE x 7.5mg vial.</li> <li>Work with their Trust's Medication Safety Officer (MSO) to: <ul> <li>ensure availability of stock in relevant clinical areas and emergency drug cupboards to avoid omitted or delayed doses;</li> <li>ensure there is clear guidance in clinical areas outlining that the lower strength (1.5mg) vials only are currently available.</li> </ul> </li> <li>Alternatives Rasburicase (Fasturtec) 1.5mg vials remain available and can support an uplift in demand to cover the duration of the shortage. </li> <li>Clinical Information Rasburicase is licensed for prophylaxis and treatment of acute hyperuricaemia, before and during initiation of chemotherapy, in patients with haematological malignancy and high tumour burden and at risk of rapid tumour lysis. Adult dose is 200 micrograms/kg once daily for up to 7 days according to plasma-uric acid concentration. It is administered by intravenous infusion. Supply To ensure timely access to rasburicase ensure: <ul> <li>clinical areas where rasburicase is routinely used hold sufficient stock</li> <li>there is a central location where rasburicase can be obtained in a timely manner, e.g., an out of hours pharmacy service and/or 'emergency drugs cupboard'</li> <li>stockholding in these areas do not fall below the minimum level without escalation to a clinical lead</li> </ul> </li> </ul></li></ul>
	preparation and under-dosing.

	Madicina Cumply Natification
	Medicine Supply Notification
	MSN/2023/065
Shortage of Bromfenac	Anticipated re-supply date
(Yellox) 900	3 November 2023
micrograms/ml eye	
drops	Actions
	Where supply of licensed bromfenac 900 micrograms/ml eye drops is not available,
	clinicians should:
	<ul> <li>consider prescribing ketorolac 0.5% w/v eye drops which is able to support the market during this time, ensuring that the patient is not intolerant to any of the excipients and is counselled on the appropriate dose to administer; or</li> <li>consider prescribing unlicensed products only where licensed alternatives are not appropriate.</li> </ul>
	Alternatives
	The following non-steroidal anti-inflammatory eye drops remains available and can
	support an uplift in demand:
	Ketorolac trometamol 0.5% w/v eye drops
	The following encodelist important have confirmed they are service without a
	The following specialist importers have confirmed they can source unlicensed
	bromfenac 900 micrograms/ml eye drops (please note there may be other companies
	that can also source supplies):
	Mawdsleys (lead time 3 weeks)
	Target Healthcare
	Other non-steroidal anti-inflammatory eye drops also remain available but are unable to provide an uplift in demand.
	Clinical information
	Bromfenac eye drops are licensed for use in adults for the treatment of postoperative inflammation following cataract surgery. One drop is instilled in the affected eye(s) twice daily, beginning the next day after cataract surgery and continuing through the first 2 weeks of the postoperative period. Treatment should not exceed 2 weeks as safety data beyond this is not available.
	Alternative nen storoidal anti inflammatory que drens includes l'eterolas tromotomal
	Alternative non-steroidal anti-inflammatory eye drops includes ketorolac trometamol, diclofenac, flurbiprofen and nepafenac eye drops, but only ketorolac trometamol can support an uplift in demand at present.
	Ketorolac trometamol 0.5% w/v eye drops are licensed for the prophylaxis and
	reduction of inflammation and associated symptoms following ocular surgery in adults.
	One drop is instilled into the eye three times daily starting 24 hours pre-operatively and
	continuing for up to three weeks post-operatively.
	Medicine Supply Notification Number MSN/2023/054
Shortage of	Anticipated re-supply date
Dulaglutide (Trulicity)	3 June 2024
0.75mg, 1.5mg, 3mg	
and 4.5mg solution for	Actions
injection devices	A <u>National Patient Safety Alert</u> was issued on the 18 July 2023 for the shortage of GLP1
	RA medicines.
	Please refer to the National Patient Safety Alert for information and advice on alternatives

	<b>Enquiries about page or supply issue</b> You can send any enquiries about this page or the individual supply issue raised to: <u>DHSCmedicinesupplyteam@dhsc.gov.uk</u>
Shortage of Semaglutide (Ozempic	Anticipated re-supply date 28 August 2023
and Rybelsus) presentations	Medicines affected
presentations	Anticipated re-supply date
	Ozempic 0.5mg/0.37ml solution for injection 1.5ml pre-filled pens (Novo Nordisk Ltd) 1 pre-filled disposable injection 28 June 2024
	Ozempic 1mg/0.74ml solution for injection 3ml pre-filled pens (Novo Nordisk Ltd) 1 pre-filled disposable injection
	28 June 2024 Ozempic 0.25mg/0.19ml solution for injection 1.5ml pre-filled pens (Novo Nordisk Ltd) 1 pre-filled disposable injection
	28 June 2024 Rybelsus 3mg tablets (Novo Nordisk Ltd)
	28 August 2023
	Rybelsus 7mg tablets (Novo Nordisk Ltd) 28 August 2023
	Actions
	A <u>National Patient Safety Alert</u> was issued on the 18 July 2023 for the shortage of GLP1 RA medicines.
	Please refer to the National Patient Safety Alert for information and advice on
	alternatives.
	<b>Enquiries about page or supply issue</b> You can send any enquiries about this page or the individual supply issue raised
	to: <u>DHSCmedicinesupplyteam@dhsc.gov.uk</u>
Shortage of Glucagon 1mg powder for injection kit (GlucaGen)	Anticipated re-supply date 5 January 2024
	Actions
	Primary care
	In primary care, where patients have insufficient supplies of GlucaGen to last until the re-supply date, healthcare professionals should:
	<ul> <li>prescribe or administer Ogluo (glucagon) pre-filled auto-injector pen for the</li> </ul>
	<ul> <li>treatment of severe hypoglycaemic episodes;</li> <li>counsel patients how to administer the pre-filled auto-injector pen and;</li> </ul>
	<ul> <li>limit prescriptions to two devices per patient until normal supply resumes.</li> </ul>
	Secondary care
	Pharmacy staff in secondary care should:
	<ul> <li>use Ogluo or GlucaGen<sup>®</sup> stock where available;</li> <li>ensure any short dated GlucaGen<sup>®</sup> stock kept back in pharmacy is used up before it expires</li> </ul>
	<ul> <li>Clinicians considering the use of glucagon in secondary care settings should:</li> <li>Call the NPIS (0344 892 0111) to discuss treatment options if treating severe</li> </ul>
	hypotension in a poisoned patient e.g. toxicity related to beta-blockers, calcium

channel blockers or tricyclic antidepressants, please; further detail is also available on TOXBASE.
<ul> <li>Use Ogluo (glucagon) pre-filled auto-injector pen to treat severe hypoglycaemic episodes when GlucaGen is not available.</li> </ul>
Ambulances
Ambulance clinicians should:
Conserve GlucaGen for use when IV glucose 10% has failed or there is no IV
access.
Only use a GlucaGen kit ONCE in patients who are unconscious and
<ul><li>unresponsive to IV glucose 10%.</li><li>Follow the JRCALC guidelines for the treatment of severe hypoglycaemic</li></ul>
• Pollow the stocale guidelines for the treatment of severe hypogrycaemic episodes.
Alternatives
Ogluo 0.5mg and 1mg pre-filled auto-injector pens remain available via Alliance
The following specialist importers have confirmed they can source some supplies of
GlucaGen:
<ul> <li>Mawdsleys</li> <li>Target Healthcare</li> </ul>
Other importers may also be able to source stock within Europe
Clinical Information
Hypoglycaemia
Glucagon is indicated for treatment of severe hypoglycaemic reactions, which may occur in the management of insulin treated children and adults with diabetes mellitus.
It is available in two formulations:
GlucaGen (powder for reconstitution) – licensed to be given subcutaneously
and intramuscularly. It is also licensed to be used diagnostically for testing
<ul> <li>gastric motility.</li> <li>Ogluo (pre-filled auto-injector pen containing solution) – only licensed to be</li> </ul>
given subcutaneously.
Rete blocker and other Drug Outside as
Beta-blocker and other Drug Overdoses Intravenous <u>glucagon</u> (unlicensed) is a treatment option for severe cardiovascular
instability in beta-blocker overdose, and some other drug overdoses including calcium
channel blockers and tricyclic antidepressants. GlucaGen vials are normally
reconstituted and given as an initial bolus which may be followed by an IV infusion;
Ogluo is not licensed nor suitable for the management of beta-blocker or other drug
overdoses. This is a pre-filled device, and the solution cannot be removed to be added to an IV infusion, in the same way as GlucaGen normally is.
Whilst there are supply problems with glucagon, clinicians treating severe hypotension
in a poisoned patient e.g. with toxicity related to beta-blockers, calcium channel blockers or tricyclic antidepressants, should call the NPIS (0344 892 0111) to discuss
treatment options; further detail is also available on TOXBASE.
Patient Counselling
Ogluo instruction videos for patients can be found on the manufacturer's website: Ogluo   Tetris Pharma

Medicine Supply Notification Number MSN/2023/051UPDATED

Shortage of GLP-1	Anticipated re-supply date	
receptor agonists	28 June 2024	
(semaglutide,		
dulaglutide, liraglutide,		
exenatide)	A <u>National Patient Safety Alert</u> was issued on the 18 July 2023 for the shortage of GLP1	
	RA medicines.	
	Please refer to the National Patient Safety Alert for information and advice on	
	alternatives.	
	Enquiries about page or supply issue	
	You can send any enquiries about this page or the individual supply issue raised	
	to: DHSCmedicinesupplyteam@dhsc.gov.uk	
Shortage of Liraglutide	Anticipated re-supply date	
(Victoza) 6mg/ml solution for injection	28 June 2024	
solution for injection	Actions	
	A <u>National Patient Safety Alert</u> was issued on the 18 July 2023 for the shortage of GLP1	
	RA medicines.	
	Please refer to the National Patient Safety Alert for information and advice on	
	alternatives	
	Enquiries about page or supply issue	
	You can send any enquiries about this page or the individual supply issue raised to: <a href="mailto:DHSCmedicinesupplyteam@dhsc.gov.uk">DHSCmedicinesupplyteam@dhsc.gov.uk</a>	
	to. <u>Drochedicinesupplytean@drisc.gov.uk</u>	
Shortage of Liraglutide	Anticipated re-supply date	
(Saxenda) 6mg/ml	28 June 2024	
solution for injection		
3ml pre-filled	Actions	
disposable devices	<ul> <li>Actions for Clinicians / Weight Management Programme Specialists</li> <li>Do not initiate new patients on liraglutide (Saxenda<sup>®</sup>) during the national</li> </ul>	
	shortage	
	<ul> <li>Identify patients prescribed liraglutide 6mg/mL solution for injection (Saxenda<sup>®</sup>)</li> </ul>	
	and determine how much supply they have at home to prioritise the urgency	
	for review	
	Review the clinical need against the licensed indication and <u>NICE Obesity</u>	
	guidance	
	<ul> <li>Discontinue liraglutide 6mg/ml solution for injection (Saxenda<sup>®</sup>) if at least 5% of initial body-weight has not been lost after 12 weeks at maximum dose</li> </ul>	
	<ul> <li>Consider the use of Orlistat for patients who have not previously tried this</li> </ul>	
	medicine	
	<ul> <li>Avoid switching to using any other GLP1-RA off-label</li> </ul>	
	Review all patients under a multidisciplinary team with dietetic and	
	psychological support in place to discuss further non-pharmacological options	
	during the time where liraglutide 6mg/ml solution for injection (Saxenda <sup>®</sup> ) is	
	unavailable	
	Alternatives	
	Liraglutide is one of three medicines recommended by <u>NICE</u> for weight loss in adults;	
	the other two include another GLP-1 analogue, semaglutide (Wegovy) injection, which	
	has not yet been launched, and orlistat.	
	See NICE obesity guidance for further information and non-pharmacological advice	
	Supply overview	

	<ul> <li>Liraglutide 6mg/ml solution for injection (Saxenda®) is currently out of stock and there will be intermittent supply available until mid-2024.</li> <li>There are very limited, intermittent supplies of all glucagon-like peptide-1 receptor agonists (GLP-1 RAs) <ul> <li>Supply is not expected to return to normal until at least mid-2024.</li> <li>See <u>Shortage of GLP-1 receptor agonists National Patient Safety Alert</u> for further advice.</li> </ul> </li> <li>Enquiries about page or supply issue <ul> <li>You can send any enquiries about this page or the individual supply issue raised to: <u>DHSCmedicinesupplyteam@dhsc.gov.uk</u></li> </ul> </li> </ul>
Shortage of Selegiline	Anticipated re-supply date
tablets	4 September 2023
	Medicines affected
	Anticipated re-supply date
	Eldepryl 5mg tablets (Orion Pharma (UK) Ltd)
	4 September 2023
	Eldepryl 10mg tablets (Orion Pharma (UK) Ltd)
	4 September 2023
	Achieve
	Actions Primary and secondary care
	<ul> <li>Practices in primary care should proactively identify any patients on selegiline, contact them to establish how much supply they have left, and make arrangements to prescribe an alternative agent if patient has insufficient supply. This should be done <b>as soon as possible</b> so that those patients who have run out or are low in supply minimise/avoid the break in treatment and risk of disease deterioration.</li> <li>Clinicians in secondary care should review patients admitted on selegiline; where the hospital has no stock and the patient did not bring in their own supply, prescribe an alternative agent and communicate any changes to primary care.</li> </ul>
	Where clinicians are confident to safely switch patients to an alternative therapy, they should:
	<ul> <li>consider prescribing rasagiline 1mg tablets, where appropriate (see supporting information below);</li> </ul>
	<ul> <li>counsel patients on the change to treatment and dosing, including reassurance that rasagiline is a similar agent to selegiline (see supporting information below), and advise them to report worsening of disease control, non-motor</li> </ul>
	<ul><li>symptoms, mood, and/or side effects;</li><li>signpost patients to Parkinson's UK helpline for further support/information, if</li></ul>
	<ul> <li>required;</li> <li>inform the patients' specialist teams that treatment has been switched to</li> </ul>
	<ul> <li>rasagiline;</li> <li>liaise with the patient's specialist team for advice on management options if patients experience a deterioration in disease control or troublesome side effects after switching.</li> </ul>
	Where above options are not considered appropriate, selegiline oral suspensions available via specials manufacturers and supplies of unlicensed selegiline (Eldepryl <sup>®</sup> ) 5mg and 10mg tablets can be sourced. Specialist teams should be consulted if this option is to be considered as it may not be viable for patients who have run out already or are low in supply due to likely delay in obtaining these products. Contact should be

made with local pharmacy teams to ensure orders are placed within appropriate time frames as lead times may vary (see supporting information below).

## Specialist teams should:

- ensure no new patients are initiated on selegiline 5mg or 10mg tablets;
- support primary care clinicians seeking advice on managing the switch to alternative treatment, including provision of individualised management plan, where required.

## Alternatives

The following alternative remains available and can support an uplift in demand:

• Rasagiline 1mg tablets

## **Clinical Information**

Selegiline, an MAO-B inhibitor, is licensed for the treatment of Parkinson's disease, or symptomatic parkinsonism. It may be used alone in early Parkinson's disease for symptomatic relief to delay the need for levodopa, or as an adjunct to levodopa. The recommended dose is 10 mg daily, either as a single dose in the morning or in two divided doses of 5 mg, taken at breakfast and lunch.

Rasagiline is another MAO-B inhibitor, licensed for the treatment of idiopathic Parkinson's disease as monotherapy or as adjunct therapy (with levodopa) in patients with end of dose fluctuations. In practice, it is the preferred first line MAOI-B inhibitor for most patients due to better tolerability profile. The recommended dose is 1 mg once daily.

As both drugs are selective MAO-B inhibitors, daily rasagiline treatment may be started the day after selegiline has been stopped. The SmPC for rasagiline warns that it may cause daytime drowsiness, somnolence, and, occasionally, especially if used with other dopaminergic medicinal products, falling asleep during activities of daily living. Patients must be informed of this and advised to exercise caution while driving or operating machines during treatment with rasagiline. As rasagiline has a different metabolic pathway, in that it is metabolised by cytochrome P450 1A2 (CYP1A2) rather than by CYP2B6 and CYP2C19 (as with selegiline), it has the potential to interact with inhibitors and **inducers of this** enzyme. The SmPC should be consulted for the full list of contraindications and interactions.

## **Guidance on ordering and prescribing unlicensed imports**

The following specialist importers and specials manufacturers have confirmed		
they can source unlicensed <i>Selegiline (Eldepryl®) 5mg and 10mg tablets</i> and		
various presentations of <i>selegiline oral suspension</i> (please note there may be		
other companies that can also source supplies):		
<ul> <li>Nova (specials manufacturer)</li> </ul>		
<ul> <li>Temag Pharma (specials manufacturer)</li> </ul>		
<ul> <li>Target (specialist importer)</li> </ul>		
<ul> <li>Any decision to prescribe an unlicensed medicine must consider the relevant</li> </ul>		
guidance and NHS Trust or local governance procedures. Please see the links		
below for further information:		
<ul> <li><u>The supply of unlicensed medicinal products</u>, Medicines and Healthcare</li> </ul>		
products Regulatory Agency (MHRA)		
<ul> <li>Professional Guidance for the Procurement and Supply of Specials,</li> </ul>		
Royal Pharmaceutical Society		
<ul> <li><u>Prescribing unlicensed medicines</u>, General Medical Council (GMC).</li> </ul>		
<ul> <li>When prescribing a product that is not licensed in the UK due to a supply issue</li> </ul>		
with the licensed alternative prescribers must indicate on the FP10 prescription		
that an unlicensed product is required. This can be done in one of the following		
two ways:		

	<ul> <li>Electronic prescriptions – if the required unlicensed product is shown on electronic prescribing systems, GPs should select:         <ul> <li>Selegiline 5mg tablets (imported)</li> <li>Selegiline 10mg tablets (imported)</li> </ul> </li> <li>Paper prescriptions – where the unlicensed product is not shown on electronic prescribing systems, GPs should use a paper prescription and annotate with the following wording: "special order".</li> </ul>
Shortage of Meptazinol (Meptid) 200mg tablets	Anticipated re-supply date 14 August 2023
	<ul> <li>Actions</li> <li>Clinicians should:         <ul> <li>not start any new patients on meptazinol tablets</li> <li>review existing patients on meptazinol, given its indication for the short-term management of moderate pain, to determine if analgesia is still required; and whether use has been on an acute or chronic basis</li> <li>assess risk of drug withdrawal syndrome upon abrupt cessation or dose reduction of meptazinol in patients who have been taking it on chronic basis</li> <li>determine if patients who have been on chronic therapy and deriving no benefit or no longer requiring treatment, have enough stock left to enable dose tapering and cessation of treatment (see link to Faculty of Pain Medicine guidance)</li> <li>consider prescribing an alternative analgesic if treatment is still needed (see Supporting Information), ensuring that the patient is counselled on the new medication and dose; and</li> <li>seek advice from specialist pain teams if above options are not considered appropriate</li> </ul> </li> <li>Alternatives         <ul> <li>Alternative analgesic products including non-opioids remain available (see clinical information).</li> <li>Clinical Information</li> <li>Meptazinol is a centrally acting analgesic, which has demonstrated mixed agonist and antagonist activity at opioid receptors. It is licensed for the short-term treatment of moderate pain. The usual dose is 200mg every 3-6 hours. The BNF notes it is claimed to have a low incidence of respiratory depression, though the SmPC advises that caution should be exercised in patients whose respiratory system is already compromised. As with other opiods, it warns that withdrawal syndrome may occur upon abrupt cessation or dose reduction of meptazinol.</li> </ul> </li> <li>Meptazinol tablets do not feature in pain management guidelines as a treatment option. NICE CKS guidance on analgesia for mild-t</li></ul>

	1	
	The guidance suggests that in most cases, when switching between different opioids, the calculated dose-equivalent must be reduced to ensure safety. The starting point for dose reduction from the calculated equi-analgesic dose is around 25-50%. Dose equivalence of meptazinol is not covered in this guidance or other standard sources. Hospital guidelines that include meptazinol suggest that 200mg is approximately equivalent to oral morphine 4mg to 8mg.	
	Codeine, dihydrocodeine and tramadol at a dose of 50mg is equivalent to a 5mg dose of oral morphine.	
	Thus 200mg of meptazinol would equate to a dose range of 40 to 80mg of above mentioned weak opioids. As it is recommended to start on 50-75% dose equivalence of the original opioid, the usual licensed dose for the weak opioids could be prescribed and titrated according to individual response and side effects.	
	<b>Medicine Supply Notification Number</b> MSN/2023/019	
Shortage of Topotecan	Anticipated re-supply date	
	31 August 2023	
	Medicines affected	
	Anticipated re-supply date Topotecan 4mg powder for solution for infusion vials	
	31 August 2023	
	Topotecan 1mg capsules 30 September 2023	
	Topotecan 250microgram capsules	
	30 September 2023	
	Actions	
	For <b>topotecan 4mg powder for concentrate for solution for infusion</b> , NHS provider	
	Trust pharmacy procurement teams and clinical teams should:	
	• review local stock holding and ensure stock is available for patients already	
	<ul> <li>commenced on treatment;</li> <li>review chemotherapy scheduling systems to identify all patients due to start</li> </ul>	
	treatment with topotecan infusion during the period of shortage;	
	<ul> <li>only order sufficient stock from established distribution routes to meet actual</li> </ul>	
	<ul> <li>demand during the period of shortage;</li> <li>consider using topotecan hydrochloride <b>1mg powder for concentrate for</b></li> </ul>	
	solution for infusion to make up dose if unable to source sufficient volumes of	
	<ul><li>4mg vials;</li><li>consider placing orders for unlicensed imports if a larger than usual number of</li></ul>	
	patients are scheduled for treatment during the period of shortage; and	
	<ul> <li>contact Regional Pharmacy Procurement specialist if unable to source</li> </ul>	
	both <b>1mg powder for concentrate for solution for infusion</b> or unlicensed imports as they may be able to facilitate mutual aid between hospitals.	
	For topotecan (Hycamtin <sup>®</sup> ) 0.25mg and 1mg capsules, where patients have insufficient	
	supply to last until the re-supply date, all healthcare professionals in secondary care	
	who prescribe or dispense topotecan capsules should:	
	<ul> <li>review local stock holding of topotecan 0.25mg and 1mg capsules and ensure stock is available for all patients already commenced on treatment;</li> </ul>	

<ul> <li>review chemotherapy patient scheduling systems to identify all patients due to start treatment with topotecan capsules during the period of shortage;</li> <li>if unable to source either 0.25mg and 1mg topotecan capsules, contact Regional Pharmacy Procurement specialist who may be able to facilitate mutual aid between hospitals;</li> <li>consider prescribing unlicensed products only where licensed alternatives are not appropriate. Prescribers should work with local pharmacy teams to ensure orders are placed within appropriate time frames as lead times may vary (see supporting information below); and</li> <li>if the above options are not considered appropriate, advice should be sought from specialists on management options.</li> </ul>
Alternatives
<ul> <li>Topotecan hydrochloride 1mg powder for concentrate for solution for infusion remains available and can support an uplift in demand for topotecan 4mg powder for concentrate for solution for infusion.</li> <li>Unlicensed supplies of topotecan 1mg/1ml and 4mg/4ml solution for injection may be sourced, lead times vary</li> </ul>
<u>Clinical Information</u> Topotecan intravenous infusion as monotherapy is licensed for the treatment of patients with metastatic carcinoma of the ovary after failure of first-line or subsequent therapy, and for patients with relapsed small cell lung cancer (SCLC) for whom re- treatment with the first-line regimen is not considered appropriate. Topotecan infusion in combination with cisplatin is licensed for treatment of patients with carcinoma of the cervix recurrent after radiotherapy and for patients with stage IVB disease.
For ovarian and SCLC, the recommended dose is 1.5 mg/m <sup>2</sup> per day for five consecutive days with a three-week interval between the start of each course. If well tolerated, treatment may continue until disease progression. For cervical carcinoma, the recommended dose is 0.75 mg/m <sup>2</sup> /day on days 1, 2 and 3, with cisplatin administered day 1 following the topotecan dose. This treatment schedule is repeated every 21 days for six courses or until progressive disease.
Topotecan capsules are licensed as monotherapy for the treatment of adult patients with relapsed SCLC for whom re-treatment with the first-line regimen is not considered appropriate. The recommended dose is 2.3mg/m <sup>2</sup> per day for five consecutive days with a three-week interval between the start of each course. If well tolerated, treatment may continue until disease progression. The capsule(s) must be swallowed whole and must not be chewed crushed or divided.
Guidance on ordering and prescribing unlicensed importsThe following specialist importers have confirmed they can source unlicensedtopotecan 1mg/1ml solution for injection (please note there may be other companiesthat can also source supplies):• Mawdsleys• Target Healthcare
<ul> <li>The following specialist importers have confirmed they can source unlicensed topotecan 1mg/1ml solution for injection (please note there may be other companies that can also source supplies): <ul> <li>Alium</li> <li>Mawdsleys</li> <li>Orifarm</li> </ul> </li> </ul>

	Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information:
	<ul> <li>The supply of unlicensed medicinal products, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li>Professional Guidance for the Procurement and Supply of Specials, Royal Pharmaceutical Society</li> </ul>
	<ul> <li><u>Prescribing unlicensed medicines</u>, General Medical Council (GMC),</li> <li>* Please note no specialist importers can source unlicensed topotecan capsules</li> </ul>
	Medicine Supply Notification MSN/2023/067
Shortage of Atomoxetine 40mg and 60mg capsules	Anticipated re-supply date 30 September 2023
	<ul> <li>Actions</li> <li>Primary and secondary care:</li> <li>Clinicians/prescribers in primary and secondary care should:         <ul> <li>proactively identify any patients on atomoxetine 40mg and 60mg capsules;</li> <li>contact patients to establish how much supply they have left; and</li> <li>liaise with the patient's specialist team for advice on management options.</li> </ul> </li> <li>Specialist teams</li> <li>Specialist teams should:         <ul> <li>ensure no new patients are initiated on atomoxetine capsules until the shortage is resolved</li> <li>support primary care clinicians seeking advice for patients currently taking atomoxetine 40mg and 60mg capsules, including provision of individualised management plans, where required; and</li> <li>offer alternatives in line with NICE ADHD guidance NG87 where required.</li> </ul> </li> <li>Where the above options are not considered appropriate, supplies of unlicensed atomoxetine 40mg and 60mg capsules may be sourced. Contact should be made with local pharmacy teams to ensure orders are placed within appropriate time frames as lead times may vary (see clinical information below).</li> <li>Alternatives</li> <li>Other strengths and formulations of atomoxetine remain available but in insufficient quantities to meet increased demand.</li> <li>Guanfacine (Intuniv) prolonged release tablets remain available.</li> <li>Refer to the following link for further information on the availability of methylphenidate prolonged release tablets,</li> <li>Unlicensed imports</li> <li>The following specialist importers have confirmed they can source unlicensed atomoxetine 40mg and 60mg capsules (please note there may be other companies that can also source supplies and lead times vary):         <ul> <li>Alium</li> <li>BAP Pharma</li> <li>Qmed Pharma</li> <li>Qmed Pharma</li> <li>T</li></ul></li></ul>
	<b>Clinical information</b> Stimulants such as lisdexamfetamine or methylphenidate are recommended first-line treatments for attention deficit hyperactivity disorder (ADHD). Treatment with non-

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	stimulants (e.g. atomoxetine or guanfacine) are an option in patients who are intolerant to both methylphenidate and lisdexamfetamine, or who have not responded to separate 6-week trials of both drugs ( <u>NICE ADHD guidance NG87</u> ). These treatments must be initiated by a specialist in the treatment of ADHD.
	Atomoxetine selectively inhibits pre-synaptic noradrenaline reuptake and is licensed for the treatment of ADHD in children aged 6 years and older, in adolescents, and in adults. In the paediatric population up to 70 kg body weight, atomoxetine should be initiated at a total daily dose of approximately 0.5 mg/kg and dose titrated upwards after a minimum of 7 days. according to clinical response and tolerability. The recommended maintenance dose is approximately 1.2 mg/kg/day. For paediatric population over 70 kg, the initial dose is 40mg for minimum of 7 days followed by upwards dose titration. The recommended maintenance dose is 80mg. In adults, atomoxetine is initiated at 40 mg for a minimum of 7 days prior to upward dose titration and the recommended maintenance daily dose is 80 mg to 100 mg.
	Guanfacine, a selective alpha2A-adrenergic receptor agonist, is licensed for the treatment of ADHD in children and adolescents aged 6-17 years for whom stimulants are not suitable, not tolerated or have been shown to be ineffective. Use of atomoxetine and guanfacine in children aged 5 years as per <u>NICE guidance</u> is off
	label, as is the use of guanfacine in adults, which should not be initiated without advice from a tertiary ADHD service. Patients on atomoxetine should be periodically reviewed in line with <u>NICE</u> guidance.
	<ul> <li>Guidance on ordering and prescribing unlicensed imports         Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information:         <ul> <li><u>The supply of unlicensed medicinal products</u>, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li><u>Professional Guidance for the Procurement and Supply of Specials</u>, Royal Pharmaceutical Society (RPS)</li> <li><u>Prescribing unlicensed medicines</u>, General Medical Council (GMC)</li> </ul> </li> </ul>
Shortage of Clarithromycin 125mg/5ml and	Anticipated re-supply date 29 September 2023
250mg/5ml oral suspension	Actions Actions for pharmacists
	Where a prescription for clarithromycin 125mg/5ml or 250mg/5ml oral suspension is presented and cannot be fulfilled community pharmacists and dispensing doctors should:
	• supply an alternative clarithromycin preparation where available and according to the products specified in SSP053 or SSP054.
	<ul> <li>ensure the patients age, weight (where appropriate), cautions and exclusion criteria are taken into account when considering using an SSP; and</li> <li>ensure patients/parents/carers are counselled regarding any switch in formulation including the appropriate dose and volume of the substitute product;</li> <li>ensure the patient's prescriber and/or GP practice is notified when supplying a</li> </ul>
	<ul> <li>ender the patient of presender ana/or of practice is notified when supplying a patient in accordance with any of these SSPs; and</li> <li>if the patient is deemed ineligible or does not consent to receive an alternative product via the SSP, they should be promptly referred back to the prescriber.</li> </ul>
	Actions for prescribers

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	Remaining clarithromycin oral suspensions should be reserved for patients prescribed doses lower than clarithromycin 250mg as these doses cannot be substituted with the 250mg tablets.
	<ul> <li>Consider use of clarithromycin tablets in the first instance if suitable (see Supporting information below)</li> </ul>
	<ul> <li>If clarithromycin tablets are not suitable, and clarithromycin is the most appropriate antibiotic, consider prescribing clarithromycin oral suspension, working with local pharmacy teams to understand availability; and</li> <li>If the above options are unsuitable or unavailable, consider prescribing an alternative antibiotic taking into account any allergies and referring to local guidance.</li> </ul>
	Summary
	Clarithromycin 125mg/5ml and 250mg/5ml oral suspension are in limited supply until end of September 2023.
	Serious Shortage Protocols (SSP) for clarithromycin 125mg/5ml and 250mg/5ml oral suspension were issued on 06/04/2023
	Supporting information
	Clarithromycin is a macrolide antibiotic used in the treatment of infections caused by aerobic and anaerobic gram-positive and gram-negative organisms, as well as certain atypical organisms that do not respond to beta-lactams. It is also a potential treatment option in penicillin-allergic patients.
	Clarithromycin oral suspension is licensed for use in children aged 6 months to 12 years. Clarithromycin tablets are unlicensed in children under 12 years, so use of the tablets in this age group would be considered "off-label". Where children are unable to swallow solid oral dosage forms of antibiotics, SPS have
	provided <u>advice</u> on crushing or dispersing immediate release clarithromycin tablets (off label manipulation).
	Consideration should be given to local and <u>national guidance</u> on antimicrobial prescribing
	Medicine Supply Notification Number MSN/2023/044
Shortage of Capsaicin 0.075% (Axsain) and 0.025% (Zacin) cream	Anticipated re-supply date 30 September 2023
	Actions Where patients have insufficient supplies to last until the resupply dates, prescribers
	should:
	<ul> <li>refer to local and national treatment guidelines for choice of an alternative agent, taking into account treatments already tried, and reasons for being on a topical agent (see clinical information below); and</li> </ul>
	• where topical capsaicin is still considered the most suitable therapy, consider prescribing unlicensed products where appropriate. Prescribers should work with local pharmacy teams to ensure orders are placed within appropriate time frames as lead times may vary (see alternatives below).
	Alternatives The following specialist importers have confirmed they can source unlicensed capsaicin 0.025% and 0.075% cream (please note there may be other companies that can also source supplies and lead times may vary):
	Target Healthcare

	Clinical Information Axsain (capsaicin 0.075% cream) is licensed for the symptomatic relief of neuralgia associated with and following Herpes Zoster infections (post-herpetic neuralgia) after open skin lesions have healed, and the symptomatic management of painful diabetic peripheral polyneuropathy. Zacin (capsaicin 0.025% cream) is licensed for the symptomatic relief of pain associated with osteoarthritis. <i>Neuropathic pain</i> NICE guidance recommends oral therapies such as amitriptyline, duloxetine, gabapentin or pregabalin as initial treatment for neuropathic pain in the non-specialist settings; if the initial treatment is not effective or is not tolerated, one of the remaining three drugs should be offered, and switching again if the second and third drugs tried are also not effective or not tolerated. Use of capsaicin cream is supported as an option for people with localised neuropathic pain who wish to avoid, or who cannot tolerate, oral treatments. <i>Osteoarthritis</i> NICE guidance notes that there was some evidence showing that topical capsaicin
	reduces pain in knee osteoarthritis, but not hand osteoarthritis, and it has minimal adverse events. However, it is more expensive and topical NSAIDs were considered a better option. If topical medicines are ineffective or unsuitable, an oral NSAID is recommended, taking into account potential gastrointestinal, renal, liver and cardiovascular toxicity, and any risk factors the person may have, including age, pregnancy, current medication and comorbidities. Paracetamol or weak opioids are not recommended unless they are only used infrequently for short-term pain relief and all other pharmacological treatments are contraindicated, not tolerated or ineffective. Please refer to the links below for further information
	<b>Guidance on unlicensed imports</b> Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information:
	<ul> <li><u>The supply of unlicensed medicinal products</u>, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li><u>Professional Guidance for the Procurement and Supply of Specials</u>, Royal Pharmaceutical Society (RPS)</li> <li><u>Prescribing unlicensed medicines</u>, General Medical Council (GMC)</li> </ul>
	Medicine Supply Notification Number MSN/2022/028
Shortage of Estradiol (Progynova TS) 100micrograms/24hou	Anticipated re-supply date 1 September 2023
rs transdermal patches	<ul> <li>Actions</li> <li>For patients with insufficient supplies of estradiol (Progynova TS)</li> <li>100micrograms/24hours transdermal patches: <ul> <li>community pharmacists may supply FemSeven (estradiol)</li> <li>100mcirograms/24hours transdermal patches in accordance with the Serious Shortage Protocol (SSP) for Progynova TS 100micrograms/24hours patches for eligible patients (see Supporting Information);</li> <li>pharmacists must ensure that the patient's prescriber and/or GP practice is notified when supplying a patient in accordance with this SSP; and</li> </ul> </li> </ul>

	<ul> <li>if the patient is deemed ineligible or does not consent to receive an alternative product via the SSP, they should be referred to the prescriber to establish if ongoing treatment is required and switch to an alternative hormone replacement therapy (HRT), taking into consideration wider supply issues.</li> </ul>
	Alternetives
	Alternatives
	FemSeven (estradiol) 100mcirograms/24hours transdermal patches remain available
	and can support a full uplift in demand.
	Connecting Information
	Supporting Information
	An SSP for Estradiol (Progynova TS) 100microgram/24hours patches was issued on
	28/03/2023.
	DHSC will continue to provide updates on HRT stock availability on the <u>Medicine Supply</u>
	Tool and designated 'Prescribing available HRT products' page on the Specialist
	Pharmacy Service (SPS) website.
	Medicines Supply Notification Number MSN/2023/035
Shortage of Solivito N	Anticipated re-supply date
powder for	28 June 2024
concentrate for	
solution for infusion	Actions
vials	Inpatient Parenteral Nutrition:
	Nutritional teams and/or other clinicians prescribing Solivito N (for inpatients) should
	follow the below advice:
	Complete a multi-disciplinary review of all patients prescribed Solivito N and only where it is safe, switch patients to an alternative treatment or regime as per agreed local guidance;
	Special consideration should be given to the highest risk patients including neonates, paediatrics and clinically vulnerable adults with supply being prioritised for these patient groups. It is essential that neonates receive multivitamin supplementation when prescribed;
	Review local stock holding and anticipated demand for that month, and order Solivito N in line with allocations from Fresenius Kabi (FK);
	RPPS will assess stock levels and may ask Trusts to reallocate any excess stock via mutual aid; or
	Where Trusts have a deficit in supply, Pharmacy teams should escalate to their RPPS to engage with FK to request a review of allocations or facilitate stock sharing where appropriate.
	From w/c 21st August 2023, clinical teams can consider prescribing Cernevit. Orders should be conservative and in line with usual Solivito N requirements to cover the deficit.
	Home Parenteral Nutrition: Home Parenteral Nutrition patients are not affected by this supply disruption.
	However, due to the ongoing issues, clinical teams should:
	not initiate any new Home Parenteral Nutrition patients on Solivito N without liaising with their commercial compounder to establish if supply can be fulfilled.

	Alternatives
	The following products remain available:
	<ul> <li>Cernevit powder for solution for injection vials but can only support an increase in demand from w/c 21st August 2023.</li> </ul>
	<ul> <li>Forceval capsules</li> </ul>
	Forceval Soluble tablets
	Forceval Soluble Junior tablets
	<ul> <li>Nutratain 932mg powder for solution for infusion vials</li> </ul>
	<ul> <li>Pabrinex Intravenous High Potency solution for injection 5ml and 5ml ampoules</li> </ul>
	Summary
	Solivito N is used in the compounding of parenteral nutrition (PN).
	Solivito N vials will be in limited supply until mid-2024.
	Trusts will receive allocated stock of Solivito N vials for the duration of this period.
	Home Parenteral Nutrition patients are not affected by this shortage.
	Cernevit powder for solution for injection vials remain available but cannot support a full uplift in demand until w/c 21st August 2023.
	MSN Number
	MSN/2023/070
Shortage of	Anticipated re-supply date
Paracetamol	30 November 2023
100mg/10ml solution	
for infusion ampoules	Actions
	NHS provider Trust pharmacy procurement teams, working with the appropriate
	clinical specialists should:
	<ul> <li>update clinical guidance/formularies, where necessary, to ensure paracetamol</li> <li>introduced and a statistical where clinically compared and a state of a state of the state of the</li></ul>
	intravenous 1g/100ml is only initiated when clinically appropriate and switched
	to either oral paracetamol or an alternative treatment as soon as practical or to
	alternative parenteral analgesia if administration via the oral route is not possible (see <u>NICE guidance</u> or refer to local guidelines).
	<ul> <li>ensure stock of paracetamol 500mg/50ml is reserved for use in children's and</li> </ul>
	neonatal services, where alternative treatments are not suitable. Over ordering
	stock will be challenged, and;
	<ul> <li>order a maximum of 1 week of stock at 75% of historic demand of paracetamol</li> </ul>
	1g/100ml at any one point, over ordering will be challenged.
	Alternatives
	<ul> <li>Paracetamol suppositories remain available but cannot support an uplift in demand</li> </ul>
	<ul> <li>Paracetamol 500mg/50ml solution for infusion remains available but cannot</li> </ul>
	• Paracetanior Sound, Sound Sound on Infusion remains available but cannot support an uplift in demand and should be reserved for use in children and
	neonates where alternative treatments are not suitable
	Supporting information
	Paracetamol solution for infusion is licensed for the short-term treatment of
	moderate pain, especially following surgery, and for the short-term treatment
	of fever, when intravenous administration is clinically justified by an urgent
	need to treat pain or hyperthermia and/or when other routes of administration
	are not possible.
	• The 1g/100 ml presentation is restricted to use in adults, adolescents and children weighing more than 33 kg (approximately 11 years of age). The

	E00mg/E0 ml procentation is adapted to tarm a sub-sur information information
	<ul> <li>500mg/50 ml presentation is adapted to term newborn infants, infants, toddlers and children weighing less than 33 kg. Dosing is based on patient weight as outlined in the dose tables in the <u>SmPC</u>.</li> <li><u>NICE guidance</u> on perioperative care in adults recommends oral paracetamol before and after surgery including dental surgery interpretive of pein sourcity.</li> </ul>
	before and after surgery, including dental surgery, irrespective of pain severity, and intravenous paracetamol should only be used if patients cannot take oral medicine.
Shortage of	Anticipated re-supply date
Microgynon 30 ED tablets	24 November 2023
	Actions Clinicians should:
	• Prescribe alternative brands of oral contraceptives that provide ethinylestradiol 30mcg and levonorgestrel 150mcg providing appropriate counselling to ensure the patient understands the difference between the ED regimen and the 21-day cycle regimen
	<ul> <li>If the above option is unsuitable and it is considered necessary to prescribe an ED presentation, prescribe an alternative contraceptive which comes as ED packs ensuring that the patient is not intolerant to any of the excipients</li> </ul>
	Alternatives Alternative ethinylestradiol 30mcg and levonorgestrel 150mcg preparations (21-day
	pack) available:
	<ul> <li>Ambelina 150microgram/30microgram tablets</li> <li>Elevin 150microgram/30microgram tablets</li> </ul>
	Levest 150/30 tablets
	Maexeni 150microgram/30microgram tablets
	<ul> <li>Microgynon 30 tablets</li> <li>Rigevidon tablets</li> </ul>
	Alternative ED preparations:
	<ul><li>Logynon ED</li><li>Femodene ED</li></ul>
Shortage of	Anticipated re-supply date
Triamcinolone hexacetonide	26 January 2024
20mg/1ml suspension	Actions
for injection ampoules	Actions for prescribers
	Clinicians should consider:
	<ul> <li>prescribing an alternative steroid injection during this time</li> </ul>
	Alternatives
	Triamcinolone acetonide and other steroid injections remain available.
Shortage of Cisplatin	Anticipated re-supply date
50mg/50ml and 100mg/100ml	22 September 2023
concentrate for	Actions
solution for infusion vials	NHS provider pharmacy procurement teams in Pfizer (CESW, LSNE & DNW) contracted regions should:
	<ul> <li>urgently place orders for unlicensed imports (see supporting information) to meet the needs of patients;</li> </ul>
	<ul> <li>work with the aseptic and quality assurance leads in Trusts to be ready to use unlicensed imports in aseptic units on receipt; and</li> </ul>
	<ul> <li>work with their pharmacy aseptic lead to ensure appropriate mitigations are put in place to minimise the risk of product confusion and dosing errors if</li> </ul>

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	Trusts are likely to have multiple unlicensed products in use within the
	organisation at the same time.
	NHS provider pharmacy procurement teams in Accords (DLN) contracted region should:
	<ul> <li>continue to place orders in line with forecasted demand. Any over ordering will</li> </ul>
	be challenged.
	Alternatives
	Accord remains in stock of both strengths and can continue to supply their contracted region (London North & East of England (DLN).
	Accord cannot support the demand from non-contracted regions (North West (DNW), East Midlands, West Midlands, South West and South-Central regions (CESW) & South London, South East Coast, North East, and Yorkshire & Humber (LSNE)) during this period.
	Supplies from commercial compounders will remain available but they are not able to increase capacity or accept new customers during this period. Any new or increased ordering will be challenged.
	<ul> <li>Unlicensed Imports</li> <li>The following specialist importers have confirmed they can source unlicensed cisplatin 50mg/50ml and 100mg/100ml concentrate for solution for infusion vials (please note there may be other companies that can also source supplies):         <ul> <li>Clinigen Healthcare*</li> </ul> </li> </ul>
	<ul> <li>Orifarm</li> </ul>
	Qmed Pharma
	• Smartway*
	Target Healthcare
	* Specialist importer has applied for MHRA letter of no objection.
	Medicine Supply Notification Number
	MSN/2023/066
	Please note this MSN has now been superseded by MSN/2023/072 Platinum-based Chemotherapy Agents: Cisplatin, Carboplatin and Oxaliplatin
	Guidance on ordering and prescribing unlicensed imports
	Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further
	information:
	<u>The supply of unlicensed medicinal products</u> , Medicines and Healthcare     products Populatory (MHPA)
	<ul> <li>products Regulatory Agency (MHRA)</li> <li>Professional Guidance for the Procurement and Supply of Specials, Royal</li> </ul>
	• <u>Professional Guidance for the Procurement and Supply of Specials</u> , Royal Pharmaceutical Society (RPS)
	<ul> <li><u>Prescribing unlicensed medicines</u>, General Medical Council (GMC)</li> </ul>
Shortage of Irinotecan hydrochloride 330mg/ 220ml and 360mg/	Anticipated re-supply date 27 August 2023
240ml bags	Actions
	NHS provider Trust pharmacy procurement teams, Aseptic units and their local
	Medication Safety Officer should:
	<ul> <li>assess current stock holding of irinotecan hydrochloride 330mg/ 220ml bags and 360mg/ 240ml bags to ensure current stock levels are correctly recorded in</li> </ul>
	pharmacy systems

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	<ul> <li>consider placing orders of irinotecan hydrochloride 330mg/ 220ml bags and 360mg/ 240ml bags from commercial compounders where there are insufficient supplies during this period (see Supporting Information); or</li> <li>consider in-house aseptic preparation of irinotecan hydrochloride 330mg/ 220ml and 360mg/ 240ml bags for the duration of this shortage, ensuring work systems including appropriate documentation and worksheets are updated to support this</li> <li>Alternatives</li> <li>Able to support demand</li> <li>The following suppliers can provide a full uplift in demand with the following vials sizes.</li> </ul>
	Consilient Irinotecan 40mg/ 2ml, 100mg/5ml, 300mg/15ml vials
	Fresenius Kabi Irinotecan 100mg/5ml, 300mg/15ml, 500mg/25ml vials
	Seacross Pharmaceuticals LTD Irinotecan 100mg/5ml, 300mg/15ml vials
	<b>Unable to support demand</b> The following suppliers cannot support an increase in demand with the following vials sizes.
	Accord Irinotecan 100mg/5ml, 300mg/15ml, 500mg/25ml vials, 1000mg/50ml vials Pfizer
	Campto (Irinotecan) 40mg/ 2ml ,100mg/5ml, 300mg/15ml vials
	Supporting information Commercial Compounders
	Commercial compounders have confirmed they have capacity to accept new customers for the compounding of irinotecan hydrochloride 330mg/ 220ml and 360mg/ 240ml bags during this period. The following commercial compounders have confirmed they can support with the compounding of Irinotecan hydrochloride 330mg/ 220ml and 360mg/ 240ml bags
	<ul> <li>during this period and have provided contact email addresses (please note there may be other compounders that can also support):</li> <li>ITH Pharma: <u>commercial@ithpharma.com</u></li> </ul>
	<ul> <li>Quantum: west@quantumpharma.co.uk: caroline.munday@quantumpharma.co.uk</li> <li>Sciensus: Appleby@sciensus.com</li> </ul>
	<ul> <li>Bath ASU: limited capacity – individual Trusts need to approach Bath ASU and they will advise on a case-by-case basis: gailey@pharmaxo.com</li> </ul>
	Medicine Supply Notification Number MSN/2023/022
Shortage of Disopyramide 100mg capsules and 250mg	Anticipated re-supply date 18 August 2023
modified-release tablets	Medicines affected         Anticipated re-supply date         Disopyramide 100mg capsules 84 capsule
	1 September 2023 Disopyramide 250mg modified-release tablets 60 tablet 18 August 2023
	Alternatives

	<ul> <li>Parallel imports of disopyramide 100mg capsules and 250mg modified release tablets are available and can cover the demand for the duration of the shortage.</li> <li>Orders can be placed directly with the following suppliers: <ul> <li>DrugsRUs Limited – via DrugsRUs Limited by contacting Veer@drugsrus.co.uk</li> </ul> </li> <li>Enquiries about page or supply issue <ul> <li>You can send any enquiries about this page or the individual supply issue raised to: DHSCmedicinesupplyteam@dhsc.gov.uk</li> </ul> </li> </ul>
Platinum-based Chemotherapy Agents: Cisplatin, Carboplatin and Oxaliplatin	Anticipated re-supply date 22 September 2023 Medicines affected Anticipated re-supply date Cisplatin 100mg/100ml solution for infusion vials 13 October 2023 Cisplatin 50mg/50ml solution for infusion vials 30 October 2023 Carboplatin 600mg/60ml solution for infusion vials (Pfizer Ltd) 1 vial 22 September 2023 Actions Cisplatin and Carboplatin NHS provider pharmacy procurement teams in all regions should: • urgently place orders for unlicensed imports (see Supporting Information) to meet the needs of patients during this period; • work with the acentic and quality accurate leads in trusts to be ready to use
	<ul> <li>work with the aseptic and quality assurance leads in trusts to be ready to use unlicensed imports in aseptic units on receipt (see Supporting Information); and</li> <li>work with their pharmacy aseptic lead to ensure appropriate mitigations are put in place to minimise the risk of product confusion and dosing errors in the event that trusts have multiple unlicensed products in use within the organisation at the same time.</li> <li>Oxaliplatin</li> <li>NHS provider pharmacy procurement teams in all regions should continue to order oxaliplatin in line with historic order patterns acknowledging that unusual orders will be challenged.</li> </ul>
	Alternatives         Oxiplatin         Whilst oxaliplatin solution for infusion vials remain available, these, cannot support any uplift in demand.         Cisplatin and carboplatin unlicensed imports         Cisplatin and carboplatin unlicensed imports are available from a range of suppliers.         The SPS Quality Assurance team has produced advice on both available cisplatin products and available carboplatin products.         These lists and assessments will be kept up-to-date with advice and available unlicensed products as the situation changes.
	<ul> <li>Supporting information</li> <li>There are supply constraints facing the platinum-based chemotherapy agents.</li> <li>Supplies of all strengths of cisplatin solution for infusion vials are in very limited supply and unable to meet full UK demand until at least early October 23. A resupply date is yet to be confirmed.</li> <li>Supplies of all strengths of carboplatin solution for infusion vials are in limited supply and unable to meet full UK demand until mid- September 2023.</li> </ul>

<ul> <li>Trusts should place orders immediately for unlicensed imports to support during this period.</li> <li>The NHSE Commercial Medicines Unit is actively working with the appropriate clinical advisers to provide clinical guidance in to support management during this time. Further information will be shared when finalised.</li> <li>Please note, this MSN supersedes <u>MSN/2023/066 Cisplatin 50mg/50ml and 100mg/100ml solution for infusion vials.</u></li> </ul>
<ul> <li>MSN/2023/072</li> <li>Guidance on ordering and prescribing unlicensed imports</li> <li>Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information: <ul> <li>The supply of unlicensed medicinal products, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li>Professional Guidance for the Procurement and Supply of Specials, Royal Pharmaceutical Society (RPS)</li> <li>Prescribing unlicensed medicines, General Medical Council (GMC)</li> </ul> </li> </ul>
Anticipated re-supply date . September 2023 Medicines affected Anticipated re-supply date regretol 100mg tablets (Novartis Pharmaceuticals UK Ltd) . September 2023 Actions Where patients have insufficient supplies to last until the re-supply date, clinicians hould: consider prescribing half of a Tegretol 200mg tablet (unlicensed manipulation), ensuring patients are able to split the tablet, and understand they are receiving the ame dose (see Supporting Information); consider prescribing Tegretol 100mg/Sml liquid for patients unable to split a Tegretol 100mg tablet, ensuring the patient is counselled on the appropriate volume to take; ind eek advice from specialists on alternative management options, if the above are not considered appropriate. Nternatives The following products remains available and can support an uplift in demand: Tegretol (carbamazepine) 200mg tablet Tegretol (carbamazepine) 100mg/Sml liquid Seneric carbamazepine 100mg tablets remain available but are unable to support an increase in demand.

	Tegretol (carbamazepine) tablets are licensed for the management of generalised tonic- clonic and partial seizures in epilepsy, the prophylaxis of manic-depressive psychosis in patients unresponsive to lithium therapy, and for trigeminal neuralgia.
	As carbamazepine is a category 1 anti-epileptic drug, there are clear indications that clinically relevant differences between different manufacturers' products might occur, even when the pharmaceutical forms are the same and bioequivalence has been shown, thus patients should be maintained on a specific manufacturer's product.
	Tegretol 200mg tablets are scored but they are not licensed to be halved to deliver a part dose, and there may be slight variation in bioavailability from halving a 200mg tablet or switching to the liquid, but these are pragmatic options that have to be considered whilst Tegretol 100mg tablets are out of stock. Patients should be advised to report any loss of disease or seizure control, and adverse effects, after the switch.
	Patients prescribed Tegretol 200mg tablets, or their carer, should be counselled on dosing, ensuring they are able to halve the tablet, and to use a tablet cutter if there are manual dexterity issues. They should also be advised to only halve one tablet at a time for immediate use, and store the remaining half for the next dose, in the tablet cutter if using one, or in an empty tablet bottle.
	Medicine Supply Notification Number MSN/2023/074
Shortage of TicoVac Junior vaccine suspension for	Anticipated re-supply date 25 August 2023
injection 0.25ml pre- filled syringes	Actions Please refer to the following resource which includes practical advice for travellers and advice for health professionals: <u>NaTHNaC – Tick-borne encephalitis risk: practical advice</u> <u>during vaccine shortage (travelhealthpro.org.uk)</u> Links
	<ul> <li><u>SmPC TicoVac Junior 0.25 ml Suspension for injection in a pre-filled syringe</u></li> <li><u>BNF Tick-borne encephalitis vaccine, inactivated</u></li> </ul>
	<b>Enquiries about page or supply issue</b> You can send any enquiries about this page or the individual supply issue raised to: <u>DHSCmedicinesupplyteam@dhsc.gov.uk</u>
Shortage of Varenicline 0.5mg and 1mg tablets	Actions Please refer to the updated <u>Supply Disruption Alert</u> issued on 28th October 2021 for management advice.
	<ul> <li>Alternatives</li> <li>In addition to the advice in the updated Supply Disruption Alert [28th October 2021], the following specialist importers have confirmed they can source unlicensed varenicline 500micrograms tablets and/or varenicline 1mg tablets (please note there may be other companies that can also source supplies):         <ul> <li>Thistle Pharma (please contact for further information- Tel: 0330 123 3001, E: <u>Contactus@thistlepharma.com</u>)</li> </ul> </li> </ul>
	<b>Guidance on ordering and prescribing unlicensed imports</b> Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information:

	<ul> <li><u>The supply of unlicensed medicinal products</u>, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li><u>Professional Guidance for the Procurement and Supply of Specials</u>, Royal Pharmaceutical Society (RPS)</li> <li><u>Prescribing unlicensed medicines</u>, General Medical Council (GMC)</li> <li>Enquiries about page or supply issue</li> </ul>
	You can send any enquiries about this page or the individual supply issue raised to: <a href="mailto:DHSCmedicinesupplyteam@dhsc.gov.uk">DHSCmedicinesupplyteam@dhsc.gov.uk</a>
Shortage of Reboxetine (Edronax) 4mg tablets	Anticipated re-supply date 3 November 2023
	<ul> <li>Actions</li> <li>Clinicians in primary and secondary care: <ul> <li>Should not initiate new patients on reboxetine (Edronax) 4mg tablets until the shortage has resolved.</li> <li>Use unlicensed imports (see details below) where available until the resupply date</li> </ul> </li> </ul>
	<ul> <li>Where an import is not readily available:</li> <li>In secondary care, where there are insufficient stocks, request mutual aid, facilitated by Regional Pharmacy Procurement Specialist.</li> <li>In primary care, if stock is unavailable, consider referring the patient back to the initiating hospital specialist where stock may still be available. This should be checked before a referral is made.</li> <li>If there are insufficient supplies, prescribers in primary and secondary care should consider switching to an alternative antidepressant (with noradrenergic properties) such as lofepramine or venlafaxine, if not contra-indicated or previously tried.</li> <li>If stopping or switching to alternative treatment, national guidance on tapering (see below) should be followed, involving the patient so that a shared decision can be reached on the preferred treatment options</li> </ul>
	Alternatives Guidance on ordering and prescribing unlicensed imports The following specialist importer has confirmed they can source unlicensed reboxetine 4mg tablets (please note there may be other companies that can also source supplies): • Mawdsleys • Target Healthcare Summary
	Reboxetine (Edronax) 4mg tablets are out of stock from mid-August until the end of October 2023.
	<b>Unlicensed imported stock is available.</b> If local stock holding, imported stock and mutual aid cannot meet anticipated demand until the re-supply date, alternative antidepressants with noradrenergic properties should be considered.
	<b>Supporting information</b> Reboxetine, a noradrenaline reuptake inhibitor, is licensed for the acute treatment of depressive illness/major depression and for maintaining clinical improvement in patients initially responding to treatment.
	Stopping medication

	If it is considered appropriate to stop antidepressants, the Royal College of Psychiatrists have issued guidance on stopping antidepressants (see link below).
	Medicine Supply Notification Number MSN/2023/073
	<ul> <li>Guidance on ordering and prescribing unlicensed imports</li> <li>Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information: <ul> <li>The supply of unlicensed medicinal products, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li>Professional Guidance for the Procurement and Supply of Specials, Royal Pharmaceutical Society (RPS)</li> <li>Prescribing unlicensed medicines, General Medical Council (GMC)</li> </ul> </li> </ul>
Shortage of Permethrin 5% cream	Anticipated re-supply date 4 August 2023
	<b>Considerations and background</b> In recent weeks there have been delays in resupply of some brands of permethrin 5%
	cream During this period, alternative suppliers remained in stock but supplies may have been limited.
	It has now been confirmed that by Friday 4 <sup>th</sup> August 2023 there will be a large quantity of permethrin 5% cream available to the market that is sufficient to meet demand. Further large deliveries are scheduled for delivery in mid-September 2023, with regular monthly supplies at a similar volume thereafter. To manage supply, wholesalers may have maximum order caps in place however, if there is a requirement for large quantities of stock then local services should engage with wholesalers to alert them to the need for a large quantity of stock for the treatment of an outbreak.
Shortage of Fluvoxamine (Faverin)	Anticipated re-supply date 18 August 2023
50mg and 100mg tablets	Medicines affected Anticipated re-supply date Fluvoxamine 100mg tablets 18 August 2023 Fluvoxamine 50mg tablets 6 October 2023 Actions Actions for primary and secondary care:
	If the patient has insufficient stock to last until the resupply date, consider unlicensed imports of fluvoxamine 50mg and 100mg tablets (see below for guidance on ordering and prescribing unlicensed imports).
	<b>Following resupply of licenced fluvoxamine 100mg tablets:</b> For patients with insufficient supply of fluvoxamine 50mg, if suitable, consider prescribing fluvoxamine 100mg tablets (when resupply is confirmed) which can be halved along a score line into two equal doses. Splitting of the tablet along the break line is within the product licence and therefore this would not be off-label use of the medicine.

	<ul> <li>These patients prescribed fluvoxamine 100mg tablets who require a 50mg dose should be counselled on the splitting of tablets, including the following points: <ul> <li>For a 50mg dose, half a tablet = 50 mg fluvoxamine</li> <li>The remaining half of the tablet should be disposed of in accordance with local requirements</li> <li>For patients who may have issues breaking the tablets, e.g., poor dexterity, a tablet cutter should be provided, or a carer should be counselled on the splitting of tablets</li> </ul> </li> <li>Alternatives Fluvoxamine 50mg and 100mg tablets are currently available as an import via Target</li></ul>
	<ul> <li>Healthcare</li> <li>Guidance on ordering and prescribing unlicensed imports</li> <li>Any decision to prescribe an unlicensed medicine must consider the relevant guidance and NHS Trust or local governance procedures. Please see the links below for further information: <ul> <li>The supply of unlicensed medicinal products, Medicines and Healthcare products Regulatory Agency (MHRA)</li> <li>Professional Guidance for the Procurement and Supply of Specials, Royal Pharmaceutical Society (RPS)</li> <li>Prescribing unlicensed medicines, General Medical Council (GMC)</li> </ul> </li> </ul>
Shortage of Aspirin Suppositories	<ul> <li>Medicines affected         <ul> <li>Anticipated re-supply date</li> <li>Aspirin 150mg suppositories (Martindale Pharmaceuticals Ltd)</li> <li>25 August 2023</li> </ul> </li> <li>Actions         <ul> <li>Clinicians should</li> <li>review all patients on aspirin suppositories and switch patients to oral therapy if possible;</li> <li>consider using an alternative licensed medication(s) where a switch to oral therapy is not possible;</li> <li>prescribe appropriate Specials or unlicensed imports where the above actions are not considered appropriate (see information below).</li> </ul> </li> <li>Alternatives         <ul> <li>Use oral therapy if possible.</li> <li>Consider an alternative licensed medication where oral therapy is not possible.</li> <li>Use specials or unlicensed imports where licensed alternatives are not considered appropriate (see information below)</li> </ul> </li> <li>Clinical Information         <ul> <li>Aspirin suppositories are licensed for the treatment of mild to moderate pain, pyrexia due to colds and influenza, and musculoskeletal pain and inflammation. They are also used off-label for their antiplatelet effect (e.g., after a stroke or MI) in patients who cannot swallow oral medicines, including those who do not have an enteral feeding tube in situ.</li> </ul> </li> <li>Specials         <ul> <li>The following companies have indicated they can supply specials of aspirin suppositories (please note, there may be other companies that can manufacture supplies):</li> <li>Internation</li> </ul> </li> </ul>

<ul> <li>PCCA</li> <li>Unlicensed imports</li> <li>The following importer companies have indicated they can source supplies of aspirin suppositories (please note, there may be other companies that can also source supplies):         <ul> <li>Alium Medical Pharma</li> <li>Smartway Pharma</li> <li>U.I clobal</li> <li>Target</li> <li>Mawdsleys</li> </ul> </li> <li>Any decision to prescribe an unlicensed medicinal products, Medicines and Healthcare products Regulatory Agency (MHRA);</li> <li>Professional guidance for the procurement and supply of specials, Royal Pharmaceutcal Society (RS); and</li> <li>Professional guidance for the procurement and supply of specials, Royal Pharmaceutcal Society (RS); and</li> <li>Prescribing unlicensed medicines, General Medical Council (GMC).</li> </ul> <li>Please see the following links for further information:         <ul> <li>SmPC aspirin 300mg suppositories</li> </ul> </li> <li>Shortage of Diazepan 10mg/2.5ml rectal solution tube (Desitin Pharma Ltd)</li> <li>September 2023</li> <li>Actions</li> <li>Where supply of diazepan 10mg/2.5ml rectal solution tubes are not available, clinicitans should:             <ul> <li>review patients and consider prescribing midazolam oromucosal solution which can support the market during this time, ensuring that the patient is not intolerant to any of the excipients and parent/carer is consulled on the appropriate dose and volume required, and advised on how to administer the dose</li> <li>if midazolam oromucosal solution tubes (Desitin Pharma Ltd)</li> <li>September 2023</li> </ul> </li>		Mandeville Medicines
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	• use diazepam 5mg/2.5ml rectal solution tubes to make up the dose required
	for the patient.
	·
	Alternatives
	The following midazolam oromucosal solution pre-filled syringes remain available and
	can support an uplift in demand:
	<ul> <li>Midazolam 2.5mg/0.5mL oromucosal solution pre-filled syringes</li> </ul>
	<ul> <li>Midazolam 5mg/1mL oromucosal solution pre-filled syringes</li> <li>Midazolam 7 5mg/1 5mL oromucosal solution pre-filled syringes</li> </ul>
	<ul> <li>Midazolam 7.5mg/1.5mL oromucosal solution pre-filled syringes</li> <li>Midazolam 10mg/2 mL oromucosal solution pre-filled syringes</li> </ul>
	• Midazolam tong/z me oromicosal solution pre-mied symiges
	The following specialist importers have confirmed they can source unlicensed diazepam
	10mg/2.5ml rectal solution tubes (please note there may be other companies that can
	also source supplies):
	Orifarm
	Clinical information
	Diazepam rectal solution tubes are licensed in epileptic and febrile convulsions, to
	relieve muscle spasm caused by tetanus, as a sedative in minor surgical and dental procedures, and for initial use in acute severe anxiety and agitation.
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	Midazolam oromucosal solution is licensed in the treatment of prolonged, acute,
	convulsive seizures in infants, toddlers, children, and adolescents (from 3 months to <
	18 years). Midazolam oromucosal solution is not licensed for use in children under 3
	month or in adults over 18 years. It is used off-label for status epilepticus in these age
	groups
	Madising Cumply Natification Number
	Medicine Supply Notification Number MSN/2023/063
	101510/2025/005
Shortage of Imiquimod	Anticipated re-supply date
(Aldara 5% and Zyclara	16 June 2023
3.75%) cream	
	Medicines affected
	Anticipated re-supply date
	Bascellex 50mg/g cream 250mg sachets (Sun Pharmaceutical Industries Europe B.V.) 16 June 2023
	Aldara 5% cream 250mg sachets (Viatris UK Healthcare Ltd)
	3 November 2023
	Zyclara 3.75% cream 250mg sachets (Viatris UK Healthcare Ltd)
	1 December 2023
	Actions
	NHS Provider Trust Pharmacy Procurement teams should:
	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream,</li> </ul>
	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream, including stock being held at ward locations</li> </ul>
	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream,</li> </ul>
	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream, including stock being held at ward locations</li> <li>estimate if they hold sufficient stock to meet the anticipated demand until the</li> </ul>
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	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream, including stock being held at ward locations</li> <li>estimate if they hold sufficient stock to meet the anticipated demand until the re-supply date; and</li> <li>where there are insufficient stocks, the organisation should request mutual aid,</li> </ul>
	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream, including stock being held at ward locations</li> <li>estimate if they hold sufficient stock to meet the anticipated demand until the re-supply date; and</li> <li>where there are insufficient stocks, the organisation should request mutual aid, facilitated by their Regional Pharmacy Procurement Specialist</li> </ul>
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	<ul> <li>review local stock holding of Aldara 5% cream and Zyclara 3.75% cream, including stock being held at ward locations</li> <li>estimate if they hold sufficient stock to meet the anticipated demand until the re-supply date; and</li> <li>where there are insufficient stocks, the organisation should request mutual aid, facilitated by their Regional Pharmacy Procurement Specialist</li> <li>Where patients have insufficient supplies to last until the re-supply date, clinicians/prescribers should:         <ul> <li>defer initiating new patients on Aldara 5% cream and Zyclara 3.75% cream until</li> </ul> </li> </ul>

<ul> <li>not intolerant to any of the excipients and is counselled on dosing and administration (see Clinical Information and Alternatives)</li> <li>consider prescribing unlicensed products only where licensed alternatives are not appropriate, working with local pharmacy teams to ensure orders are placed within appropriate time frames as lead times may vary (see information below); and</li> </ul>
<ul> <li>if the above options are not considered appropriate, advice should be sought from specialists on management options</li> </ul>
Alternatives
For actinic (solar) keratosis
Bascellex 50 mg/g cream (Imiquimod) Indication: The topical treatment of clinically typical, nonhyperkeratotic, nonhypertrophic actinic keratoses on the face or scalp in immunocompetent adult patients when size or number of lesions limit the efficacy and/or acceptability of cryotherapy and other topical treatment options are contraindicated or less appropriate.
Solaraze 3% gel (Diclofenac sodium gel) Indication: Treatment of actinic keratosis
Efudix 5% cream (Fluorouracil)
Indication – topical treatment of:
<ul> <li>superficial pre-malignant and malignant skin lesions;</li> <li>keratoses including senile, actinic and arsenical forms;</li> <li>keratoacanthoma;</li> <li>Bowen's disease;</li> <li>superficial basal-cell carcinoma.</li> </ul>
<ul> <li>Fluorouracil produces a more marked inflammatory reaction than diclofenac sodium, but lesions resolve faster</li> </ul>
Actikerall 5mg/g + 100mg/g Cutaneous Solution (Fluorouracil with salicylic acid) Indication: Topical treatment of slightly palpable and/or moderately thick hyperkeratotic actinic keratosis (grade I/II) in immunocompetent adult patients.
Klisyri 10 mg/g ointment (Tirbanibulin)
Indication: Field treatment of non-hyperkeratotic, non-hypertrophic actinic keratosis (Olsen grade 1) of the face or scalp in adults.
This is a new product and is subject to additional monitoring
For superficial basal cell carcinomas
Efudix 5% Cream (Fluoruracil) Indication – topical treatment of:
<ul> <li>superficial pre-malignant and malignant skin lesions;</li> <li>keratoses including senile, actinic and arsenical forms;</li> <li>keratoacanthoma;</li> <li>Bowen's disease;</li> </ul>
superficial basal-cell carcinoma.

<ul> <li>Deep, penetrating, or nodular basal cell and squamous cell carcinomas do not usually respond to Efudix therapy. It should be used only as a palliative therapy in such cases where no other form of treatment is possible</li> </ul>
For anogenital warts
Warticon Cream and Solution (Podophyllotoxin) Indication: Topical treatment of condylomata acuminata affecting the penis or the external female genitalia.
Catephen 10% Ointment
Indication: Cutaneous treatment of external genital and perianal warts (condylomataacuminata) in immunocompetent patients from the age of 18 years
Note: Condyline 0.5% solution (podophyllotoxin) has been discontinued so would has been removed as an alternative option for anogenital warts indication.
Other therapies Cryotherapy or other forms of physical ablative therapy (e.g., surgery, laser treatment) may also be considered for anogenital warts, particularly for patients with a small number of low-volume warts, irrespective of type.
Unlicensed Imports
Where the above licensed alternatives are not suitable, unlicensed supplies may be sourced, lead times vary.
Clinical Information Imiquimod preparations
<ul> <li>Aldara 5% Cream is licensed for the topical treatment of:</li> <li>External genital and perianal warts (condylomata acuminata) in adults</li> <li>Small superficial basal cell carcinomas (sBCCs) in adults</li> <li>Clinically typical, nonhyperkeratotic, nonhypertrophic actinic keratoses on the face or scalp in immunocompetent adult patients when size or number of lesions limit the efficacy and/or acceptability of cryotherapy and other topical treatment options are contraindicated or less appropriate</li> </ul>
Zyclara 3.75% cream is licensed for the topical treatment of clinically typical, nonhyperkeratotic, nonhypertrophic, visible or palpable actinic keratosis of the full face or balding scalp in immunocompetent adults when other topical treatment options are contraindicated or less appropriate.
*In the USA, imiquimod (Zyclara) 3.75% cream is approved to treat external genital and perianal warts/condyloma acuminata in patients 12 years or older.
Medicine Supply Notification Number MSN/2023/010

Shortage update taken from SPS Medicines Supply Toolkit on 14<sup>th</sup> August 2023. Information provided by DHSC and NHSEI Medicines Supply Teams and published on Specialist Pharmacy Services Medicines Supply Tool. Not formally reviewed by NHS Kent and Medway Medicines Optimisation. Practices are encouraged to register for access to the SPS website <a href="https://www.sps.nhs.uk/">https://www.sps.nhs.uk/</a> and access this tool directly in real time.