

# Safety Notice 036/23

#### **Issue date** 1 December 2023

#### **Distributed to:**

**Chief Executives Directors of Clinical** Governance Director, Regulation and

**Compliance Unit** 

# Action required by:

**Chief Executives Directors of Clinical** Governance

We recommend you also inform:

Directors, Managers and Staff of:

- Nursing/Midwifery •
- **Medical Services** .
- Pharmacy •
- Infectious Diseases • /Microbiology
- Cardiology •
- Rheumatology •
- Sexual Health .

Public Health Units **Drug and Therapeutics** Committees

Other relevant clinicians. departments and committees.

**Content reviewed by:** 

Antimicrobial Stewardship Expert **Advisory Committee** Centre for Population Health

Health Protection NSW

Medication Safety Expert **Advisory Committee** 

**Medication Shortage** Assessment and Management Team

#### **Clinical Excellence** Commission

Tel: 02 9269 5500 Email Internet Intranet

> **Review date** December 2024

> > Health



## Disruption to supply – Benzathine benzylpenicillin (Bicillin L-A) suspension for injection pre-filled syringe

#### Situation

There is a current global disruption to the supply of:

- Benzathine benzylpenicillin (Bicillin L-A) 600,000 units/1.17 mL suspension for injection pre-filled syringe until 15 November 2024.
- Benzathine benzylpenicillin (Bicillin L-A) 1,200,000 units/2.3 mL suspension for • injection pre-filled syringe until 29 February 2024.

This disruption to supply is a result of manufacturing issues (600,000 units) and increases in consumer demand (1,200,000 units). Limited supply of the 1,200,000 units/2.3 mL product may continue to be available.

At the time of publication:

- An alternative 1,200,000-unit product available from ORSPEC Pharma from the United Kingdom (UK) has been approved for supply under Section 19A (S19A)
- of the Therapeutic Goods Act until 30 Mar 2024. The S19A alternative is not currently upgoised under the Pharmaceutical
- Benefits Scheme (PBS).

#### Background

Benzathine benzylpenicillin is an intimicrobian dicated in the treatment of infections caused by penicillin-sensitive nicroorganisms that are susceptible to low and prolonged serum levels. Indication include:

- treatment of streptoccal interions (group A without bacteraemia): mild-• moderate infections of the upper respiratory tract.
- sexually transmined mechanic including syphilis prophylaxis against rhe matic fever. .

### Assessment

Urgent action required to ensure that the remaining supply of the Australian registered benzathine benzylpenicillin product is preserved for priority indications where alt matives are not available or suitable. NOTE - most patients requiring benzylpenicillin for priority indications access this medicine in the con munity etting.

The Sea Alternative available for the 1,200,000-unit strength from ORSPEC Pharma has safety considerations due to differences in presentation and storage from the alian registered product (see **Table 1** on page 3 for comparison).

The manufacturer of the S19A alternative has indicated that the powder displacement volume is approximately 1 mL. As this volume is an estimate, the S19A alternative cannot be utilised to administer smaller doses due to inability to accurately measure a dose other than 1,200,000-units.

# Priority indications in NSW Health facilities during disruption to supply

- Reserve supply of the Australian registered benzathine benzylpenicillin product (Bicillin-LA) for the following priority indications:
  - treatment of definite, probable and possible acute rheumatic fever (ARF) 0
  - secondary prophylaxis for acute rheumatic fever (ARF) and/or rheumatic 0 heart disease (RHD)
  - in specific circumstances where syphilis prophylaxis may be indicated for  $\circ$ high-risk uninfected neonates (600,000 units/1.17 mL product).
- Use the S19A alternative for the treatment of syphilis.
- Alternative antimicrobials should be used for all other indications.



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## Requirements of NSW Health facilities during the disruption to supply

Restrict orders for the Australian registered brand of benzathine benzylpenicillin (Bicillin L-A) to the priority indications outlined above until further notice, so that the limited remaining supply is available for use in the community setting. The S19A alternative should be ordered for the treatment of syphilis noting there is a lead time of 7-10 business days and a difference in cost.

### **Clinical Recommendations**

- Develop a local plan to manage the disruption to the supply of benzathine benzylpenicillin that includes (but is not limited to):
  - assessing the current status and availability of the medicine in each facility, ensuring all locations of stock are identified
  - reviewing historical stock usage
  - o determining ongoing clinical needs and ability to obtain alternative supply.
  - Seek advice from Infectious Diseases/Microbiology/Sexual Health and/or the <u>Therapeutic Guidelines: Antibiotic</u> (including the <u>Antibiotic prescribing in primary care: Therapeutic Guidelines summary table 2023</u>) for alternative antimicrobials in indications not identified as a priority indication.
  - Consider the appropriateness of the S19A alternative for each patient with reference to the information provided in Table 1. Particular attention is drawn to:
    - The volume required to administer a 1,200,000-unit dose (approximately 4.5 mL) and the acceptability of this volume in paediatric patients.
    - The presence of **soy lecithin (like the ARTG product)** making it inappropriate in patients with a soy or peanut allergy.
- Continue to dose benzathine benzylpenicillin according to the Product Information for the Australian registered product and evidence-based resources such as <u>Therapeutic Gridelines: Antibiotic</u>.
- A license to supply by wholesale has been issued to specified public health organisations which allows benzathine benzylpenicillin (Bicillin L-A) 1,200,000 units/2.3 min suspension for injection pre-filled syringe to be supplied to a community pharmacy on a written order some by a pharmacist (further detail here including the date at which the license remains in force).

## Table 1. Comparison of ARTG listed benza nine benzylpenicillin product and S19A alternative.

	AR G lister product	S19A alternative available from ORSPEC Pharma
Brand	Bio <sup>liti</sup> L-A (Pfizer)	Brancaster Pharma ( <u>image</u> )
Active ingredient	Benzathire benzylpenicillin tetrahydrate 200,00 units	Benzathine benzylpenicillin 1,200,000 units
Formulation	White fluid suspension in a pre-filled syringe	Powder (white/off white) and solvent (clear diluent) for suspension for injection
Volume required to administer 1,200,000- unit dose*	1,200,000 units = 2.3 mL	3.5 mL diluent plus powder displacement volume Total volume = approximately 4.5 mL
Consumer Medicines Information leaflet	Access here	Access here
Labelling	English	
Route of administration	Intramuscular (IM) injection ONLY	
Storage	2-8 degrees Celsius (Refrigerate, do not freeze)	Room temperature – below 25 degrees Celsius
Doses per pack	10 (individual pre-filled syringes)	1 x vial of powder for suspension 1 x ampoule containing 5 mL water for injection



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# Made obsolete 15 December 2023 - Replaced by SN:040/23



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#### Table 1 cont.

	ARTG listed product	S19A alternative available from ORSPEC Pharma
Additional excipients	<ul> <li>sodium citrate</li> <li>lecithin<sup>#</sup></li> <li>carmellose sodium</li> <li>povidone</li> <li>preservatives: <ul> <li>methyl hydroxybenzoate</li> <li>propyl hydroxybenzoate</li> </ul> </li> </ul>	<ul> <li>soy lecithin<sup>#</sup></li> <li>polysorbate 80</li> <li>sodium citrate</li> <li>carmellose sodium</li> <li>povidone</li> </ul>
	<sup>#</sup> The presence of lecithin makes these products NOT suitable for patients with an allergy to soy or peanuts.	

\*Please note – the manufacturer of the S19A alternative has indicated that the powder displacement volume is approximately 1 mL. As this volume is an estimate, the S19A alternative cannot be utilised to administer smaller doses of 600,000 units of the statement of the statement

# **Required actions for the Local Health Districts/Networks**

- 1. Distribute updated Safety Notice to all relevant clinicians and unical departments where benzathine benzylpenicillin is held, prescribed, and administered, and include this Safety Notice in relevant handovers and safety huddles.
- 2. Undertake a local risk assessment and incorporate the requirements and recommendations within this Safety Notice to manage the disruption to supply.
- 3. Ensure a system is in place to document action taken in Reponse to this Safety Notice.
- 4. Report any incidents associated with this disruttion to spply into the incident management system (ims+).
- 5. Confirm receipt and distribution of this Scienty Notice within **96 hours** to <u>CEC-MedicationSafety@health.nsw.gc\_.au</u>



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