

Safety Notice 008/23

Issue date 3 April 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:

- Intensive Care Units
- Emergency Departments
- Cardiology
- Haematology
- Dialysis Units
- Medical
- Nursing/Midwifery
- Pharmacy Services

Drug & Therapeutics Committees

All other relevant clinicians and clinical departments where these products are prescribed, stored and administered

Expert Reference Group

Content reviewe by:

Medicine Shortage Assessment and Management Team

Medication Safety Expert Advisory Committee

Clinical Excellence Commission

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Intranet

Review date September 2023

Disruption to supply: Heparin sodium (Pfizer®) 5000 units/5 mL injection ampoule

Situation

The Australian registered medicine heparin sodium (Pfizer) 5000 units/5 mL injection (AUST R: 49232) is currently in short supply due to manufacturing issues.

An alternative product is currently being considered for supply under Section 19A (S19A) of the Therapeutic Goods Act. If approved, details of the alternative will appear on the TGA S19A approvals atabase.

Background

- Heparin is a parenteral anticoagulat used or several indications including treatment and prevention, versus and actrial thromboembolic disease, treatment of acute coronary syntromes, atrial fibrillation, and prosthetic heart valves.
- Heparin 5000 units/5 mL is the recommended product for administration of intravenous bolus doses for the <u>AEC Intravenous Unfractionated</u> Heparin Recommended Standa
- Heparin has a nerrow therap dic index, and over- or underanticoagulation can result in significant adverse patient outcomes.
- Due to the high risk path, of heparin, it is included in the Anticoagul at Standa which exists as part of the NSW Health Policy Directive hyph-Risk M dicines Management PD2020_045.

Ass ssmal

In the absence of a S19A alternative, NSW Health facilities may not be able to paintain syncient stock of heparin 5000 units/5 mL to satisfy normal december 1. Prizer have confirmed that supply of heparin 5000 units/0.2 mL and 1500 units/1 mL continue to be available.

Clinical Recommendations

- Assess the current status and availability of heparin 5000 units/5 mL in each facility, ensuring all locations of stock are identified.
- Develop a local plan to manage the supply shortage that includes (but is not limited to); assessing local stock holdings, historical stock usage, ability to obtain alternative supply, and ongoing clinical needs.
- Reserve remaining Australian registered supply of heparin 5000 units/5 mL for patients receiving at-home care (e.g. dialysis patients).
- In the absence of the registered product, clinicians wishing to prepare a heparin 5000 units/5 mL (1000 units/1 mL) preparation can do so using alternative products (see **Table 1**).
- Extra caution should be taken to avoid confusion as the recommended alternative product may differ from local clinical protocols.

PTO





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 Patients receiving heparin should be closely monitored for signs and symptoms of sub- or supratherapeutic dosing. Laboratory testing (e.g. aPTT levels) should be continued as per local protocols and evidence-based references.

Table 1. Preparation instructions to achieve required concentration of 5000 units/5 mL (1000 units/1 mL)

Alternate product	Preparation to achieve required concentration of 5000 units/5 mL (1000 units/1 mL)
Heparin 5000 units/0.2 mL	Dilute with 4.8 mL of sodium chloride 0.9%. Use solution immediately afterbliution.
Heparin 5000 units/1 mL	Dilute with 4 mL of sodium choride 0.9%. Use solution immediately fter oution.

• In accordance with NSW Health Policy Directive <u>High Risk Male es Managment</u> PD2020_045, clinicians are reminded that a second person check should be undertain a prior to the preparation and administration of heparin.

Required actions for the Local Health Districts/Network

- 1. Distribute this Safety Notice to all relevant clinicians and clinical departments where heparin 5000 unit/5 mL is held, prescribed, and administered, and include this cafety Notice in relevant handovers and safety huddles.
- 2. Undertake a local risk assessment and in orpora, the base recommendation to manage the disruption to supply.
- 3. Ensure a system is in place to document actions talen in response to this Safety Notice.
- 4. Report any incidents associated much system e.g., ims+.
- 5. Confirm receipt and distribution. This Salety Notice within **72 hours** to CEC-MedicationSafety@health...w.gov.au.

