Clinical Practice Procedures: Drug administration/ Priming of an Alaris™ two-way extension set (with clamps)

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<tr>
<th>Date</th>
<th>May, 2017</th>
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<tr>
<td>Purpose</td>
<td>To ensure a consistent procedural approach to the Priming of an Alaris™ two-way extension set (with clamps).</td>
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<td>Scope</td>
<td>Applies to all QAS clinical staff.</td>
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<td>Review date</td>
<td>May, 2020</td>
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<td>Information security</td>
<td>This document has been security classified using the Queensland Government Information Security Classification Framework (QGISCF) as UNCLASSIFIED and will be managed according to the requirements of the QGISF.</td>
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The Alaris™ 2-way extension set (with clamps) has been introduced to ensure the availability of emergency intravenous access via a second port when infusions are being administered (e.g. the Springfusor® 30 and the enflow® blood warmer).

Careful attention to the priming of the Alaris™ 2-way extension set (with clamps) will minimise the likelihood of air entrainment reducing the risk of air embolus.

**Indications**

- To prepare an Alaris™ 2-way extension set (with clamps) prior to the administration of medications AND/OR fluids via an appropriately placed cannula

**Contraindications**

- Nil

**Complications**

- Air embolism
- Infection

1. Remove the 2-way extension set from the packaging.
2. Clean both SmartSite™ valves with a 2% Chlorhexidine/70% Isopropyl Alcohol swab.
3. Close the blue and white clamp.
4. Insert a 10 mL Luer-Lok™ syringe containing 10 mL sodium chloride 0.9% into the SmartSite™ valve on the extension tubing with the blue clamp and rotate 1/4 clockwise to secure the connection.
5. Open the blue clamp.
6. Gently prime the tubing until fluid drips from the patient connection port. Priming slowly helps minimise turbulence that can cause air bubbles to form.
Procedure – Priming of an Alaris™ 2-way extension set (with clamps)

7. Close the **blue** clamp.
8. Disconnect the syringe’s luer by securely holding the SmartSite™ valve whilst turning the syringe counter clockwise.
9. Insert the same 10 mL Luer-Lok™ syringe containing (minimum 5 mL) sodium chloride 0.9% into the SmartSite™ valve on the extension tubing with the **white** clamp and rotate 1/4 clockwise to secure the connection.
10. Open the **white** clamp.
11. Gently prime the tubing until the fluid drips from the patient connection port. Priming slowly helps minimise turbulence that can cause air bubbles to form.
12. Close the **white** clamp.
13. Disconnect the luer by securely holding the SmartSite™ valve whilst turning syringe counter clockwise.
14. Inspect the 2-way extension set and SmartSite™ valves to ensure no air bubbles are visible. If air bubbles are present, repeat priming procedure until all air bubbles are dislodged and have been released from the tubing.
15. Remove the 2-way extension set patient's connection cap.
16. Connect the extension set to the SmartSite™ valve on the patient’s cannula.
17. Administer medications AND/OR fluids as necessary.

**Additional information**
- All IV cannulae should be checked for patency prior to the connection of a 2-way extension set.