

## Patient information

# Outpatient Parenteral Antimicrobial Therapy (OPAT) Self-administration of Benzylpenicillin 1.8g IV bolus

This leaflet is designed to support patients, and nursing staff who are teaching patients to self-administer Benzylpenicillin, with the assistance of the OPAT team. Please use this information in conjunction with the '*Patient Self-Administration IV Therapy Competency Tool*'.

Through comprehensive individual demonstration, training and assessment, you will be able to:

- Minimise the risk of introducing infection into a vein by keeping everything very clean.
- Avoid touching the key parts of syringes, needles and extension sets.
- Prevent injecting air into a vein by learning to prime syringes and extension sets carefully.

### What is Benzylpenicillin?

Benzylpenicillin is an antibiotic; it is a narrow-spectrum penicillin antibiotic. Benzylpenicillin is given intravenously, by multiple doses throughout the day. Please read the patient information leaflet inside medication box for further information about your medication.

### What you will need

The ward nursing team and the OPAT nurses will ensure that you are happy and safe to administer Benzylpenicillin following the procedure below:

Equipment per dose:	<p>1 tray and sani-cloth detergent wipes</p> <p>1 pair sterile gloves and non-sterile gloves</p> <p>3 10ml syringes</p> <p>1 20ml syringe</p> <p>4 red needles</p> <p>2 clinell wipes 2%</p> <p>4 red bungs</p>
Patient dose:	<p>sharps bin</p> <ul style="list-style-type: none"> <li>• 10ml ampoules 0.9% sodium chloride (normal saline) <b>x2</b></li> <li>• Benzylpenicillin 1.2g vial and 600mg vial. <b>x2</b> ampoules of water for injection: 20 ml and 10ml</li> </ul>

## What to do

**Remember** to check the dose and the expiry date of the drug, diluent and normal saline.

- 1 Wash your hands and clean the tray with detergent wipes; assemble equipment. Use non-sterile gloves to prepare medication; protect key parts by using a non-touch technique throughout the procedure.
- 2 **Prepare medication**
  - Clean the stoppers of the Benzylpenicillin vials with a clinell wipe 2%, allow 30 seconds to dry.
  - **Using the 20ml water for injection - draw up 10mls** into a 20 ml syringe using a red needle and slowly inject into the vial of **1.2g Benzylpenicillin**, shake until clear and the medication is fully dissolved.
  - Withdraw the prepared solution and further dilute to a final volume of 20mls of water. Remove the needle from the syringe and dispose of it directly into the sharps bin. Do not touch the top of the syringe. Tap the syringe to move air bubbles to the top and expel.

- **Using the 10ml water for injection draw up 4mls** into a 10 ml syringe using a red needle and slowly inject into the vial of **600mg Benzylpenicillin**, shake until clear and the medication is fully dissolved.
- Withdraw the prepared solution and further dilute to a final volume of 10mls of water. Tap the syringe to move air bubbles to the top and expel.
- Place a red sterile cap on the syringe before placing in the tray.

### 3 Prepare saline flushes

- Draw up saline into a 10ml syringe using a red needle. Remove the needle from the syringe and dispose of it directly into the sharps bin.
- Remove any air from the syringe as before and place a red sterile cap on the syringe. Repeat for the second flush.

### 4 Administering medication

- Wash hands and put on sterile gloves.
- Clean the connector on your PICC line thoroughly with a clinell wipe 2% and allow 30 seconds to dry.
- Flush the PICC line with the 10mls of normal saline using the 'push-pause' pulse technique.
- **Administer each reconstituted Benzylpenicillin slowly via the syringe over 5 minutes, one after the other – 10 minutes in total for the 1.8g dose.**
- Flush the line again with 10mls of normal saline using the pulse technique.
- Safely dispose of equipment. Needles and glass vials must be discarded in the sharps bin provided.

### 5 Any difficulties?

Please contact the OPAT team should any problems occur, all relevant phone numbers are listed in your care plan.