

Parenteral Nutrition (PN) Administration

Central Venous Access Device (CVAD)

Equipment required

Alcohol hand gel or soap	Pre-prepared saline syringes	Prescription
Detergent wipes	Antiseptic swab pads	PN items (nurse to complete):
Rubbish bin	Paper towel/laundered towel	
Large washable tray	Bungs	
Sterile gloves	10mL sterile syringe	

Key points

1. Scrub the bung
2. Saline flush first
3. Give therapy
4. Saline flush using push, pause technique
5. Administer prescribed lock if required
6. Use a locking technique to prevent blood reflux

Start by

- Remove all jewellery/watches/false nails; short nails are preferable
- Wear laundered clothes or apron
- Roll up sleeves to the elbow
- Have a rubbish bin handy so that all used items go directly into the bin

Prepare your child

- Position your child comfortably so that you can access the line
- Explain to your child that once you have cleaned their bung it is really important they don't touch it so that it remains clean
- Offer your child something to comfort and/or engage them during the procedure. This can include their favourite toys, iPad or simply talking to your child



Wash your hands

- Turn on the tap for warm water
- Wet your hands and use enough soap to lather your hands and wrists
- Wash every surface of your hands and wrists
- Dry your hands with a clean paper towel, use the paper towel to turn off the tap

Assess the site

Look and feel the site to ensure there is no signs of infection and is securely dressed and safe to use. Signs of infection includes:

- Warmth
- Redness
- Swelling
- Tenderness
- Pus & discharge

Check that the external catheter measurement of the device (where applicable) has not changed.

Prepare yourself and the equipment

- Wash or gel your hands and wrists
- Gather equipment and check packaging for damage, expiry date and child details on the base of medication
- Clean your workspace along with the tray with detergent wipes, ensuring the sides, outside and base of tray are cleaned and then allowed to dry
- Wash or gel your hands
- Open the sterile equipment, leaving tips of the items protected in the opened packaging, ready for use in the tray. This includes:
 - Pre-prepared saline syringes (keep cap in place)
 - 10mL syringe
 - Bung
 - Antiseptic swab pads
 - Other (nurse to complete):



Prepare the PN therapy

Follow the instructions for your type of therapy and device (attached)

Program the pump

Follow the instructions for your type of therapy and device (attached)

Put on sterile gloves

Step 1

- Wash/gel hands, wrists and allow to dry
- Open the packet and unfold the contents to reveal the gloves without touching them



Step 2

- If you are right handed start with the right glove. Use your left hand to hold the cuff, while you slide your right hand in. Don't touch the outside of the gloves



Step 3

- Use your gloved hand to hold inside the cuff of the other glove while you slide your other hand in



Step 4

- Once both gloves are on you can now touch the outside of the gloves and make them fit
- Your gloved hands are now considered sterile, so touch only the bung and contents of the blue tray to limit contamination



Step A

- Pop seal on pre-prepared saline syringe by pushing upward on the syringe plunger, then remove cap and screw on to the end of bung, using a clockwise motion making sure end of syringe or flat surface of bung does not touch yourself, hands, clothing or environment

Step A



Step B



Step B

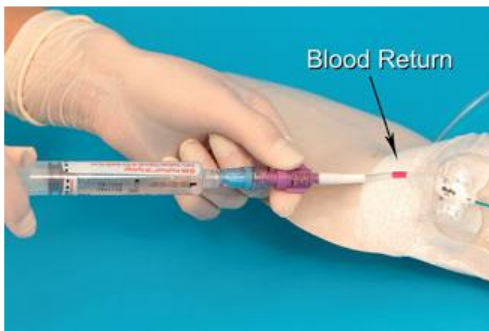
- Leaving the protective cap on the bung and the bung in the packaging, prime by gently pushing on the plunger of the pre-prepared syringe until saline is evident dripping into packaging

Checking line is OK to use and giving medication

- Open the large antiseptic swab pad and scrub the end of the device with friction for 20 seconds. Allow to dry for another 30 seconds
- Screw the syringe with saline onto the bung. Ensure the bung or tip of syringe does not touch your child, their clothing or environment. If contamination does happen, don't worry and start again with cleaning



- Pull back gently on the plunger with syringe in vertical position to check
 - a) For blood return
 - b) Allow bubble to rise to the top of syringe



PICC – blood return may not occur or can be sluggish

Tunnelled line – fast return expected

Port – fast blood return expected

- For troubleshooting devices that do not bleed back your nurse or doctor will discuss with you:
 - Checking the position of external parts of device (evidence of cuff, catheter measurement where applicable)
 - Positioning/coughing
 - Instillation of saline
 - Contact details for staff that can assist you
- Instil saline slowly checking there is no resistance or leaking seen anywhere along the catheter or under the dressing, if none then it is OK to use the line
- Unscrew syringe and continue to hold the end of the catheter to prevent it touching your child, clothing or anything else in the environment

Attach the PN and commence therapy

- Ensuring the bung and the tip of the infusion set does not come into contact with you, your child, clothing or environment, gently attach the infusion line to the bung by screwing the two together

Disconnecting PN and flushing after use

- On completion of therapy, it is necessary to follow the above process steps to flush and lock the device:
 - Alcohol gel/wash hands and put on clean gloves
 - Set up freshly cleaned tray with equipment – antiseptic swab and two pre-prepared saline syringes
 - Alcohol gel/wash hands and put on sterile gloves
 - Disconnect the infusion line, scrub the bung for 20 seconds and allow to dry
 - Connect the first saline flush and administer in a stop start fashion leaving a small amount of saline in the syringe when you disconnect. Follow with the second syringe
 - Finish with prescribed locking solution (nurse to complete):
 - Leave a small amount of fluid in syringe, disconnect syringe and clamp the line (if clamped device)
 - Scrub the bung to finish
- Remove gloves and place rubbish into waste bin and finish by washing your hands.



Government of **Western Australia**
Child and Adolescent Health Service

Child and Adolescent Health Service

15 Hospital Avenue, Nedlands, WA, 6009. Telephone:
(08) 6456 2222

Produced by: Anaesthetics

Ref: 1435 © CAHS 2022

This document can be made available in alternative formats on request for a person with a disability.

Disclaimer: This publication is for general education and information purposes. Contact a qualified healthcare professional for any medical advice needed.

© State of Western Australia, Child and Adolescent Health Service.