

# Contacts

## Royal Children's Hospital

**Switchboard:** 9345 5522  
**Nephrology:** 9345 5054  
**PD Coordinator:** 9345 5721/0481 010 628  
**Koala Ward:** 9345 5702

If you need to speak to the PD Coordinator please call the hospital and ask to page 5721

For after hours (evenings and weekends) medical advice please call RCH switchboard and ask for the nephrologist on-call.

## Fresenius

**Stock Ordering:** 1800 012 808  
Please ask for Rhonda regarding any home orders.  
**Technical Services:** 1800 757 378 (24hours)

Call this number for any MACHINE problems 24 hours a day. Please leave a message if there is no answer and a technician will return your call.

# When you get home

## Equipment delivery:

The PD coordinator or a Fresenius representative will do a home visit to check equipment delivery and assist with set up. They will check that you have everything you need to commence PD and attend to exit site care.

## Set up equipment for ease of use:

- Set the machine trolley to the same level as the child's bed
- Remove the machine from the case and place on trolley
- Clean the machine with chlorhex and paper towel

## Degass Machine:

1. Put in the memory card
2. Press the smiley face/teddy bear icon
3. Press the machine picture
4. Press the blue bubble icon
5. Press the forward arrow to begin the manual check. It will prompt to ensure the machine is empty; at this time ensure the inside of the machine is clean.
6. Clean inside the tray with alcohol wipes

Ensure that you have all the supplies ready for evening dialysis.

## Supplies & Equipment:

- Ensure that supplies (fluids, dressings etc) are set up in a convenient, clean, dry place.
- Ensure that you can easily read the barcodes of the equipment for ease when stocktaking.

**Please do not hesitate to call if you have any questions when you get home.**

# Peritonitis/Troubleshooting

## PERITONEAL DIALYSIS IN CASE OF AN EMERGENCY

### If you suspect peritonitis:

- Collect a sample see [“How to collect a PD sample”](#)
- Call PD coordinator 9345 5721 or switch 9345 5522 and page 5721 (8am – 4.30pm Mon-Fri)
- If after hours or weekend call Switch 9345 5522 and ask for the nephrologist on call.

### Questions you may be asked:

- Is the fluid cloudy
- Does your child have a fever
- Does your child have abdominal pain, nausea or vomiting
- Is the catheter and betadine cap intact

### Action:

- You may be asked to put cephazolin into a 2L 1.5% PD bag see [“How to prepare Intraperitoneal Cephazolin”](#).
- You may be asked to bring your child to RCH for review or admission.
- **If your child is significantly unwell call 000 Ambulance.**

**Please do not hesitate to call.**

**Peritonitis is a serious condition and should be acted on ASAP!!!!**

# Peritonitis/Troubleshooting

## What do I do if my/my child's bag drain bag is cloudy?

### If it happens DURING THE DAY between 8am-5pm

If you notice the fluid in the drain bag is cloudy please call the PD coordinator as soon as possible on:

1. 9345 5721 or
2. 9345 5522 (switch) and ask for pager 5721 or
3. 9345 5054 (nephrology office)

### After 5 pm weekdays and on weekends and public holidays

Call the hospital on 9345 5522 (switch) and ask to speak to the nephrologist on call. They will ask about specific symptoms and direct you as to what to do next.

### Likely plan:

- Present to RCH Emergency
- A PD Specimen will be taken
- Prophylactic antibiotics administered
- Await results for more specific treatment

## Collecting a PD sample

### Equipment:

- |                                 |                         |
|---------------------------------|-------------------------|
| 1. Manual drain bag             | 5. 19g needle           |
| 2. Betadine cap                 | 6. 30ml Syringe         |
| 3. Organiser (remove blue clip) | 7. Yellow top container |
| 4. Alcohol swab                 |                         |

- Place the dial of the drain bag into the organiser (remove blue clip first)
- Remove betadine cap from Tenckhoff and connect manual drain bag
- Unclamp the Tenckhoff and drain a minimum of 50ml into the drain bag
- Once finished draining turn the dial on the bag to 4 dots to engage pin
- Re-clamp the Tenckhoff and place a new betadine cap using the organiser
- It is important to keep both ends of the Tenckhoff and drain bag sterile
- Connect the needle to the syringe and swab the blue port.
- Insert the needle and withdraw 30ml of fluid and place into the sterile jar.
- Never use a syringe to try and drain the Tenckhoff, it should always drain freely.
- If you are unable to drain freely and there is fluid in the peritoneum, contact RCH immediately.
- If you are coming directly to RCH you can bring the drained fluid with you in a bag, no need to place sample into spec jar.

# IPAB: How to prepare Intraperitoneal Cephazolin

## Required Equipment:

(per bag of balance fluid)

- 1x 1gm Cephazolin Vial
- 1x 10ml ampoule of water for injection
- 1x 10ml syringe
- 1x (19g) needle (brown)
- 1x (23g) needle (blue)
- 2x alcohol swab

## Procedure:

- 1) Wash hands
- 2) Wipe down bench with methylated spirits/chlorhex
- 3) Place all equipment on bench
- 4) Remove cover from Cephazolin vial swab top with alcohol swab
- 5) Draw up 9.5 ml water for injections using 19g needle and 10ml syringe
- 6) Tap syringe gently to remove bubbles.
- 7) Insert needle straight into rubber cap of vial
- 8) Push 9.5 ml of water for injection into vial
- 9) Keeping needle and syringe in vial shake until powder dissolved
- 10) Make sure the point of the needle is under the fluid level in the vial
- 11) Withdraw the required amount of fluid from the vial
- 12) For a 2 litre bag of balance fluid draw up 2.5mls  
For a 5 litre bag of balance fluid draw up 6.25mls
- 13) It is better to withdraw too much fluid and discard the excess from the syringe
- 14) Remove the needle from the vial
- 15) Gently tap syringe to remove bubbles
- 16) Ensure the correct dose by pushing plunger to the correct level
- 17) Remove the 19g needle and place new 23 g needle on syringe
- 18) Swab rubber bung on balance fluid bag (blue) and let dry
- 19) Insert needle into blue bung (being careful not to pierce the bag) and push in solution
- 20) Mix bag and set up PD as usual for a 5lt bag or perform a manual dwell as directed for a 2lt bag  
see instructions on ["how to perform a manual dwell"](#)

# Troubleshooting

## What to do if your machine breaks down

- Clamp the Tenckhoff at the patient end and call technical support
- If device fault and treatment unable to continue:
- Cease all treatment
- Disconnect child from the machine
- Manual drain if in dwell at the time of fault
- Call nephrologist on call to notify of issue
- PD CNC will follow-up in AM
- Turn off machine (if it will not turn off, turn off power supply and leave it to turn off by itself)

**SWAP OUT:** If a device fault occurs you may require a new machine.

In the unlikely event a new machine cannot be delivered the next day call the PD CNC 9345 5721 or Koala ward 9345 5702 (after hours) and a machine can be loaned from the ward if available.

**Please also contact the PD coordinator if you are having ongoing faults or irregular alarms on your machine. This may mean that the device is faulty and should be swapped out before a device fault occurs.**






















### **FAULTS**

































**24 Hour Technical Support**

**1800 757378**

If you can remember at the time of the fault to write down the fault code. *This will appear in the top right hand corner of machine and will be a letter followed by numbers.* This detail will help determine the exact fault and we can inform you of how to troubleshoot if it occurs in the future.

# sleep•safe Icons List

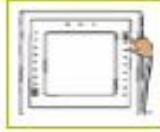
	Continue Confirm Next screen		Menu reserved for the physician or the nurse to enter treatment data		Selection of the glucose concentration
	To previous screen		Menu for changing patient-related settings		Selection/indication of the flow rates
	Increase a value		Menu for changing patient-related options		Selection of the inflow temperature
	Decrease a value		Aborts the treatment		Edit level
	Online help		Turn cyclo off		Statistics of the last treatment
	Pause treatment		Show current treatment results		Identifies a pediatric treatment
	Confirm data entered		Programming a new treatment Adding a PD-PLUS cycle		Duration of the treatment in hours and minutes Time statistics
	Discard changes Return without making any changes		Selecting the treatments on the patient card		Icon for automatic filling and draining
	Information on: Current cycle Treatment results Alarms and bags		External key to confirm actions		Selection of audible alarm volume
	Previous page		Basic therapy settings		Mute
	Next page		Entering parameters for the PD-PLUS treatment		Display brightness
	Menu for changing cyclo-related settings		Selection of the solution type		Screen saver

	Calendar Setting the date		Icon for connecting the drainage bag / drain line extension		Outflow settings
	Displaying/changing the patient limits		Icon for the number of cycles		Selection of the initial outflow volume
	Icon for inserted patient card		System check icon		Initiating a manual outflow
	Saving treatment data to patient card		Dilution factor		Cycle settings
	Alarm delay		Inflow settings		Button for changing the settings during the treatment
	Alarms list		Last inflow settings		Selection of the number of cycles for the Standard treatment
	Cycler busy icon Please wait		Alarm last Inflow		Selection of the number of base cycles
	Symbol for: Alarm Caution Warning		Dwell time		Selection of the number of Tidal cycles
	Icon for opening the catheter extension		Stop dwell time		Selection of the base inflow and the base outflow volume
	Icon for closing the catheter extension		Welcome icon		Selection of the Tidal cycle
	Icon for connecting the catheter extension		Start of treatment icon		Selection: identical glucose concentration for all inflows
	Icon for disconnecting the catheter extension		Additional Outflow		Programming a glucose profile with different glucose concentrations per cycle



## sleep•safe Set Up & Connection Procedure

1. Turn machine ON.



2. Check patient card is in the machine.



3. Touch the smiley face.



4. Check prescription displayed is correct, or change prescription.

5. Wash your hands.



6. Clean work surface, organizer and blue clip.

7. Collect equipment and place on work surface.

- 5L solution bags
- sleep•safe set
- Drainage, line, bag or container
- New disinfection cap



8. Check PD solution bags, for glucose %, expiry date and leaks.

9. Open outer pouches of sleep•safe set and solution bags.

10. Then press forward arrow.



11. Wash hands as instructed by your PD Unit.



12. Insert the sleep•safe set into the loading tray.



13. Place the patient line in to the organizer.

14. Press forward arrow to continue.



15. Disinfect your hands.



## sleep•safe Set Up & Connection Procedure

16. Hang fluid bags, uncoil tubing, remove coloured cap and place connector in to loading tray.



17. Press arrow and the loading tray will close.

18. Connect drain line to bag, or place in to container.



19. Press arrow to initiate the priming.



20. Remove your catheter extension from your clothing.



21. Thorough hand wash.



22. Place your catheter in the organizer.



23. Disinfect your hands.

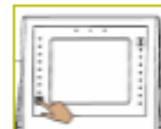
24. Unscrew the protective cap from the patient connector of the sleep•safe set and discard it.

25. Unscrew your catheter extension from the old disinfection cap. Screw catheter extension onto the patient connector of the sleep•safe set.



26. Open the white clamp on your catheter extension.

27. Confirm your connection using designated key.



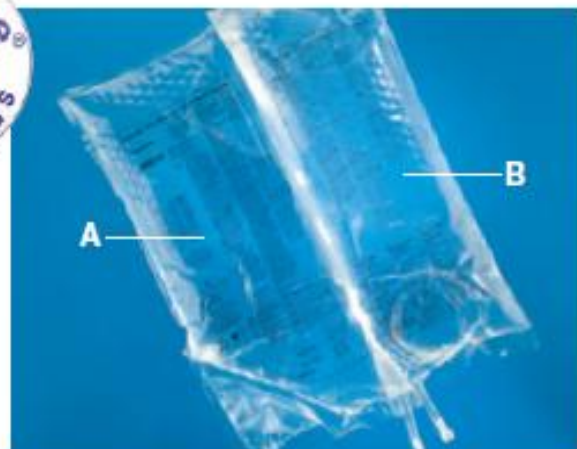
28. Press arrow to start treatment.



# sleep•safe / Safe•Lock® balance 5 L solution bag



*Innovative safety chamber*



*Solution A: Acidic glucose-based electrolyte solution  
Solution B: Alkaline lactate solution*

- Biocompatible PD solution in high volume double chamber bags means less bags and fewer connections are required per treatment
- Thanks to the innovative safety chamber, unmixed solution cannot be inflowed, thus offering more safety
- Easy to handle and to carry thanks to the design of the bag and outer wrapper
- Available with sleep•safe or Safe•Lock® connector
- The solution bags are made from Biofine®, a plasticiser-free material
- Less waste due to the fact that fewer bags are needed for one treatment

① Please refer to the balance information sheet.



*Easy to handle and carry with a handgrip integrated into the outer wrapper*



**Fresenius Medical Care**

# Handling instructions



- ① Unfold the middle peel seam and the bag connector
- ② Roll up the bag which is lying on the outer wrapper diagonally towards the bag connector
- ③ The middle peel seam will open and the solution will be mixed
- ④ Continue until the peel seam of the small chamber opens as well
- ⑤ Check that all peel seams are completely open. Check that the solution is clear and that the bag is not leaking

If you are using the sleep\*safe cyclor it will remind you about this mixing procedure if a double chamber bag is used.

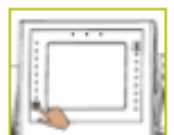


**Fresenius Medical Care**

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## sleep•safe Disconnection Procedure

1. Touch the black screen and confirm End of Treatment
2. Open outer wrapper of disinfection cap and leave in packaging.
3. Turn the blue button on the patient connector clockwise and firmly push the blue button.
4. Close the white clamp on your catheter extension.
5. Insert the patient connector of the sleep•safe set in to the organizer.
6. Disinfect your hands.
7. Place new disinfection cap in to organizer and unscrew its protective cap.
8. Unscrew your catheter extension from the patient connector and on to new disinfection cap.
9. Remove your catheter extension from the organizer.
10. Confirm your disconnection by pressing the external button
11. Your treatment results, are available for you.
12. Touch the arrow start the emptying phase.
13. The loading tray will open automatically when the emptying phase is completed
14. Remove sleep•safe set, empty solution bags and discard.
15. Confirm by touching the arrow.
16. The loading tray will close and system check will begin.
17. The sleep•safe turns itself off and remains in standby mode.



# Exit Site Care

## Tenckhoff Exit Site:

- The Tenckhoff exit site must be kept dry and clean at all times  
A moist exit site creates granulomas and increases the risk of infection
- The exit site must be changed immediately after every bath or shower
- The dressing should be changed every 2-5 days depending on age  
More frequent changes may be necessary when infection is present
- If the exit looks moist, oozy or red notify the PD co-ordinator or nephrologist on-call immediately
- Mupirocin (bactroban) cream or medi-honey wound gel may be required
- In cases where a granuloma is present silver nitrate may be required to burn the granuloma
- Round Acticoat dressings can be used on moist infected exit sites covered with the normal dressing. Acticoat is a silver coated antimicrobial dressing that is effective in treating exit site infections. Acticoat can be left on for 7 days but must be changed after a bath.

## Bath Dressing:

- Before the bath, coil the catheter over the existing dressing and cover with tegaderm to minimize water entry
- Bath as normal
- After the bath remove the tegaderm along with the existing dressing
- Clean with normal saline, dry and redress with supplied dressing

## Shower Dressing:

- Secure Tenckhoff around waist with elastic or tape
- Remove dressing (before shower or under running water if preferred)
- Shower as normal with antibacterial soap
- Step out of shower and immediately dry exit site with sterile gauze
- Apply supplied dressing and secure Tenckhoff as desired



### **Palmolive Antibacterial Soft Wash**

Sold as a hand wash not body wash

Preferred soap option for Shower dressing

Use when not waterproofing dressing prior to bathing

Never refill pump bottle due to infection control

# stay•safe balance Procedure

## 1. Preparation



1.1 Social hand wash  
Collect equipment  
Clean work surfaces



1.2 Open outer wrapper



1.3 Wash Hands



1.4 Open the middle seam



1.5 Open the Y shaped  
seam



1.6 Check solution



1.7 Hang bag, place Disco  
Into organizer



1.8 Insert disinfection cap  
into organizer



1.9 Insert catheter extension  
into organizer

## 2. Connection



2.1 Disinfect hands



2.2 Remove protective  
cover from disco



2.3 Connect to the system



2.4 Open clamp and DRAIN will  
commence



2.6 Turn to FLUSH



2.6 Turn to FILL



2.7 Turn to OLOSE

## 3. Disconnection



3.1 Close the clamp



3.2 Disinfect hands



3.3 Remove cover from  
new disinfection cap



3.4 Unscrew catheter  
extension from disco



3.5 Screw on to new  
disinfection cap



3.6 Close the disco



3.7 Check drained  
dialysate






3.8 Prepare new bag



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Phone: +61 (0)3 9400-0000 - Fax: +61 (0)3 9400-0200

## Manual PD using Fresenius Stay.Safe Set (2L bags)

- **Keep child's catheter clamped**
- Attach set to child's catheter using the holder
- Unclamp catheter. First drain the child 
- After draining **reclamp** catheter.
- On weigh scales measure how much has drained.
- Turn dial to the 2 dots to prime the line for 10 seconds 
- Weigh fluid on scales, it should weigh just under 2L.
- Turn dial to the 3 dots. 
- Unclamp catheter. Fill child to prescribed volume. You will need to stop, clamp and weigh the bag a few times to know that the prescribed volume is being reached. It is recognised that the exact volume may not be achieved but +/- 50ml is not harmful.
- **It is important to keep child's tenckhoff clamped in between draining and filling.**
- When dialysis treatment is complete, turn dial to **the four dots to push in blue safety pin**, and disconnect set from child's Tenckhoff. Cap tenckhoff with betadine cap.