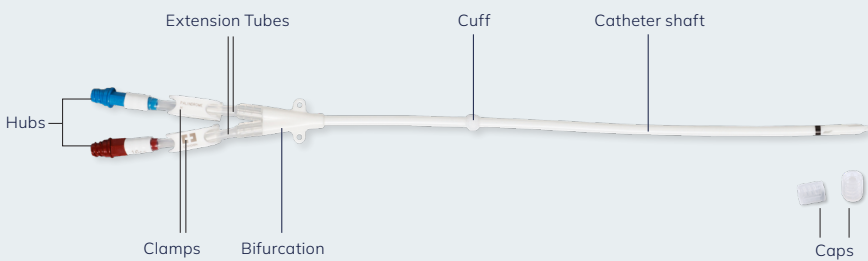




Cleaning and Handling Guidelines

Palindrome™ and Palindrome™ Precision chronic dialysis catheters



Note: We recommend these guidelines for cleaning and handling Palindrome™ dialysis catheters and Palindrome™ Precision dialysis catheters. Always defer to the physician's experience and judgment, and consult the institution protocol or device Instructions for Use for further details.

Exit Site and Hub Cleaning Steps



1

Apply an appropriate cleaning agent on the exit site.

- Circulate at least twice using a counterclockwise movement around the exit site, moving from the exit site outward.
- Allow appropriate cleaning agent to dry completely.



2

Clean the bifurcation, clamps, extension tubes, and hubs using an appropriate cleaning agent.

- Refer to page 5 for a list of the recommended appropriate cleaning agents.
- Allow appropriate cleaning agent to dry completely.



3

Remove gloves, perform hand hygiene, and don new clean gloves.




4


Place occlusive dressing or other appropriate dressing after ensuring that the appropriate cleaning agent has dried.



5

Not covering the bifurcation/catheter joint will ensure that the cleaning agent is completely dry.

 Allow appropriate cleaning agent to dry completely.

 Not covering joint will ensure that the agent is completely dry.

Hub To Cap Catheter Connection Steps



1

Perform hand hygiene and don new clean gloves.



2

Clamp the catheter.



Note: Always clamp the catheter before removing the cap.

Never leave an uncapped catheter unattended.



3

Disinfect the hubs with caps removed using an appropriate cleaning agent.

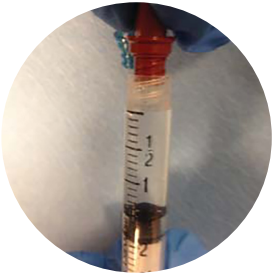
Allow appropriate cleaning agent to dry completely.



Do not allow hubs to touch nonsterile surfaces.

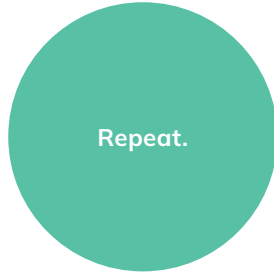
4

Always handle the catheter hubs aseptically. Once disinfected, do not allow the catheter hubs to touch nonsterile surfaces.



5

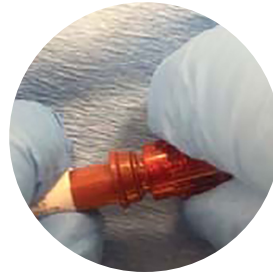
Attach sterile syringe, unclamp the catheter, withdraw blood, and flush per facility protocol.



Repeat.

6

Repeat for the other extension tube.



7

Connect the ends of the blood lines to the catheter aseptically.

Do not overtighten the blood lines into the hubs.



8

Remove gloves and perform hand hygiene.

Hub To Cap Catheter Disconnection Steps



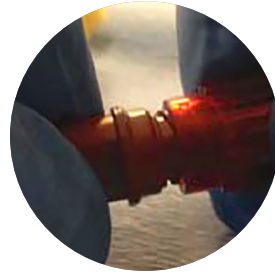
1

Perform hand hygiene and don new clean gloves.



2

Clamp the catheter (Always clamp the catheter before disconnecting the blood lines.)



3

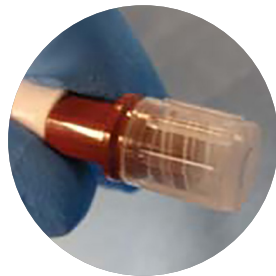
Disinfect the hubs with the blood line still connected using an appropriate cleaning agent.



4

Disconnect the blood line from the catheter and disinfect the hubs with a new antiseptic pad or other acceptable cleaning agent. Scrub the sides (threads) and end of the hubs thoroughly with friction, making sure to remove any residue (e.g., blood).

Once disinfected, do not allow the catheter hubs to touch nonsterile surfaces.



5

Always handle the catheter hubs aseptically. Once disinfected, do not allow the catheter hubs to touch nonsterile surfaces. Hold the catheter until the cleaning agent has dried.



6

Flush and lock the catheter per the facility protocol. Attach the new sterile caps to the catheter aseptically. Do not overtighten the caps to the hubs.

7

Ensure that the catheter is still clamped.



8

Remove gloves and perform hand hygiene.



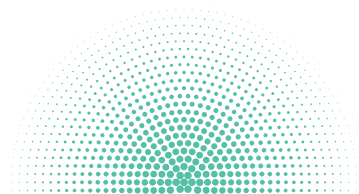
Caution: Never separate blood line connections by bending them back and forth.

Do

- ✓ Refer to page 5 for recommended cleaning agents for use on the catheter.
- ✓ Ensure the solution is completely dry before applying an occlusive dressing.
- ✓ Allow appropriate cleaning agent to dry completely.
- ✓ Ensure the bifurcation area is dry prior to dressing the exit site and/or catheter hubs.

Do not

- ✗ Use cleaning agents not recommended for use on the catheter (refer to page 5).
- ✗ Soak any part of the catheter in surgical scrubs such as Dyna-Hex, Betasept™*, or Maxi Cleanse™*.
- ✗ Expose the catheter to excessive or prolonged use of alcohol-based cleaning agents or ointments.
- ✗ Overtighten catheter connections as it may crack some adapters/hubs.
- ✗ Use sharp instruments near the catheter. Catheter tubing can tear when subjected to nicks, excessive force, or rough edges.
- ✗ Resterilize the catheter or components by any method. The manufacturer will not be liable for any damages caused by the reuse of the catheter.
- ✗ Use acetone on any part of the catheter.



Cleaning agents for Palindrome™ and Palindrome™ Precision chronic dialysis catheters

CLEANING AGENT ⁵	Palindrome™ Symmetric Tip, H-Heparin Coated and HSI-Heparin Coated and Silver Ion antimicrobial dialysis catheters ¹	Palindrome™ RT-Reverse Tunnel Catheter ^{2,3}
Alcavis™* 50 (fka amukin 50%) disinfectant	●	●
Aqueous-based povidone iodine	●	●
Bacitracin ointment	●	
Bactroban™* cream	●	
Chlorhexidine (Hibiclens™*) antiseptic	●	●
Chloraprep™ antimicrobial solution	●	●
Dilutis™* solution	●	●
Exsept™ (sodium hypochlorite) antiseptic	●	●
Hydrogen peroxide	●	●
Isopropyl alcohol 70%	●	●
Neosporin™* antibiotic	●	
Shur-Clens™* cleansing solution	●	●
Octenisept™* antiseptic solution (alcohol-free)	Palindrome™ and Palindrome™ H dialysis catheters only ⁴	



Please note: Mixing of these solutions has not been tested and is not recommended.

References:

1. Study 136-055-MAN-05
2. Study 50136-108-MS-09
3. Study 50136-098-MS-09
4. RE00347561 Rev.0
5. RE00290094 Rev B



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