Winnipeg Regional Health Authority / Office régional de la santé de Winnipeg
Caring for Health / À l'écoute de notre santé

kidneyhealth.ca
manitoba renal program

MANITOBA RENAL PROGRAM

SUBJECT ▪ Use of the HEMOdialert™ device with hemodialysis	**SECTION** **30.20** Vascular Access CODE **30.20.14**
AUTHORIZATION ▪ Professional Advisory Committee, Manitoba Renal Program	**EFFECTIVE DATE** February, 2010 **REVISION DATE** June 2013 April 2016 October 2018

PURPOSE:

1. The HEMOdialert™ is a blood access leakage alert. This device will sound an alarm when it detects moisture. The purpose of this alarm is to alert the patient and/or staff if blood is leaking from the patient's fistula/graft due to needle dislodgement or if there is a Central Venous Catheter disconnection.

POLICY:

1. The HEMOdialert™ must be used (if available) with all patients using an arteriovenous fistula (AVF) or graft (AVG) for vascular access and who are dialyzing in an isolation room or in a curtained isolation area in CDU and SCDU. Other units may opt to use the device.

2. Patients dialyzing in Critical Care areas at HSC require a HEMOdialert™ device (if available) if they are in isolation and have an AVF or AVG, and are not admitted to Critical Care.

3. Home Hemodialysis patients may be instructed in the use of the HEMOdialert™ at the discretion of the Home Hemodialysis team.

4. The HEMOdialert™ is a single patient use device that can be used multiple times for the same patient. Each device will be labeled with the patient's name. The HEMOdialert™ will be kept in a clean resealable plastic bag in a designated area.

5. If the patient no longer requires a HEMOdialert™, send the device to Dialysis Technology for preventative maintenance and testing, after which the device can be used for another patient.

6. The Venous Access Monitor (VAM) function should not be deactivated for patients using AVF or AVG for vascular access for hemodialysis treatment.

EQUIPMENT:

- HEMOdialert™
- Two 5cm x 5cm gauze
- Burn net/arm band (optional)
- Tape
- Resealable plastic bag

KEY POINTS:

PROCEDURE: **KEY POINTS:**

A. Use of the HEMOdialert™

1. Test the HEMOdialert™ alarm by touching the pad/probe with a wet finger or wet alcohol swab.

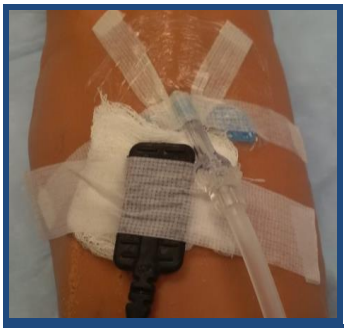
- If you do not hear an alarm, the battery needs to be replaced.

2. Disconnect the wire from the base to stop and reset the alarm.

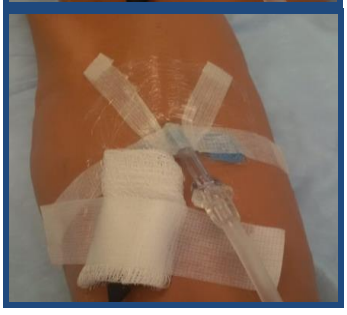
3. Reconnect the alarm to the base.

4. Once the venous needle has been inserted and taped, place 5cm x 5cm gauze under the venous blood line below the needle insertion site if possible.
   Place the HEMOdialert™ black pad over the gauze and secure with tape.

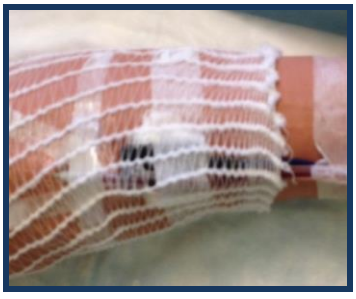
- Due to needle placement of the arterial needle, it may be necessary to place the HEMOdialert™ to the side of the venous puncture site. The gauze is used to prevent perspiration from setting off the alarm.



   Alternatively, wrap the sensor pad with a 5cm x 5cm gauze and then tape.



5. Burnet dressing may be used to help secure the pad and gauze.



6. For patients receiving in centre HD, place the HEMOdialert™ in the resealable plastic bag for the duration of the treatment.	▪ This is done to prevent gross contamination of the device with blood in the event of blood leakage.
B. <u>Post Use Cleaning of the HEMOdialert™</u>	
1. Following use, wipe the detector and sensor pad with site approved cleaning solution and a soft cloth. Place the device in a clean resealable plastic bag, which then may be placed in a designated area.	▪ The caregiver removing the first needle is responsible for ensuring that the HEMOdialert™ is cleaned, placed in a clean resealable plastic bag and returned to the designated area.
C. <u>Adherence to Isolation Precautions:</u>	
1. When the patient arrives for dialysis, bring the bag containing the device into the room.	
2. Place the device (except for the pad and cable) in the resealable plastic bag during use as indicated above.	
3. Once the treatment is complete, remove the device from the bag, wipe it with approved cleaning solution and place it into a new clean bag which has not entered the isolation area. The clean bag containing the device is placed in the designated area.	

<u>DOCUMENTATION:</u>

- Hemodialysis Treatment Sheet - Document testing and use of the HEMOdialert™

<u>REFERENCES:</u>

AMG Medical Inc Product insert **HEMOdialert™ by Anzacare,** Montreal, QC H4T 1V5, www.amgmedical.com

Benaroia, M., Pierratos, A., & Nestrallah, G. E., (2008) Core Curriculum-A primer for the prescription of short-daily and nocturnal hemodialysis*, Hemodialysis International; 12*: 23-29

Fresenius Medical Care: *5008 Hemodialysis System; Instruction for Use*, 2015, Software version 4.57 Edition:10B-2015

Van Waeleghem, J. P., Lindley, E. J., & Pancirova, J. (2008). Venous needle dislodgement: how to minimize the risks. *Journal of Renal Care 34*(4), 163-168