



**NEPHROLOGY PROGRAM
DEPARTMENT POLICIES AND PROCEDURES**

**Hemodialysis - Section 14 - Unit Specific - HGH Neph 14-24
Start-up of Reverse Osmosis Unit not following Chemical Disinfect
No.: 01682 (TOH Standardized Policy Number)**

ISSUED BY:

Hemodialysis Clinical Practice Committee

DATE OF APPROVAL:

2018/01

APPROVED BY:

Program Clinical Director & Division Head

LAST REVIEW/REVISION DATE:

N/A

CATEGORY:

Unit Specific – Satellite Unit (HGH)

IMPLEMENTATION DATE:

2018/01

POLICY STATEMENT:

- Provide the user with instructions to start up the reverse osmosis units (RO1 & RO2) if they are not already running or one RO is not able to run

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ALERTS:

- Ensure Nephrology Biomedical Technologist is aware when only 1 RO unit functioning
- Normally the RO units will be operating together (BIOSMOSIS)
- This policy applies for start up of the RO units when chemical disinfection has **NOT** been performed
- If this procedure is being performed at unit start-up then you will also need to follow this procedure with HGH Neph 14-20 Water Treatment room daily checks

IMPORTANT NOTE:

It is essential to follow the steps in this procedure in the sequence in which they appear

PROCEDURE 1: START UP OF RO1 & RO2 OSMOSIS

Section A: Equipment shutdown

1. Position RO2 OSMOSIS key (S3) to “0”.
2. Position RO1 OSMOSIS key (S2) to “0”.
3. Position BIOSMOSIS key (S1) to “RO1 + RO2”.

Section B: Start-up in BIOSMOSIS mode

4. Position RO1 OSMOSIS key (S2) to “AUTO”.
5. Position RO2 OSMOSIS key to (S3) to “MAN”.
6. **Wait one minute** and position RO2 OSMOSIS key (S3) to “AUTO”.

Note: the RO1 and RO2 systems will be in operation after 5 minutes. Check the two remote panels at the nursing station or Technical Lab—the green lights should be on and not flashing

Section C: Alarm

7. If an alarm occurs on one of the RO units press the “alarm” key on the RO screen to display the list of alarms. Refer to the Troubleshooting sheet attached to front of RO and to policy [HGH Neph 14-23 Troubleshooting Gambro Water Treatment](#).
8. Notify the Nephrology Biomedical Technical Services team in Ottawa at the Riverside campus at (613) 738-8400 ext. 82832 or 82825. If after 18:30, contact the Technologist on Call at (613) 759-9229. Notify Clinical Manager.

DOCUMENTATION:

9. Document details on the Daily Water Treatment Room Checks Sheet.



10. Proceed with [HGH Neph 14-20 Water Treatment Room Daily Checks: Nurse](#).

PROCEDURE 2: START UP OF RO1 OSMOSIS ONLY

Section A: Equipment shutdown

1. Position RO2 OSMOSIS key (S3) to “0”
2. Position RO1 OSMOSIS key (S2) to “0”
3. Position BIOSMOSIS key (S1) to “RO1”

Section B: Start-up of RO1 OSMOSIS mode

4. Position RO1 OSMOSIS key (S2) to “MAN”

Note: the RO1 system will be in operation after 3 minutes. Check that the remote panel for RO1 light is green and not flashing. There is a remote panel at the nursing station and one in the Technical Lab

Section C: Alarm

5. If an alarm occurs on one of the RO units press the “alarm” key on the RO screen to display the list of alarms. Refer to the Troubleshooting sheet attached to front of RO and to policy [HGHNeph 14-23 Troubleshooting Gambro Water Treatment](#)
6. Notify the Nephrology Biomedical Technical Services team in Ottawa at the Riverside campus at (613) 738-8400 ext. 82832 or 82825. If after 18:30, contact the Dialysis Technologist on Call at (613) 759-9229. Notify Clinical Manager

DOCUMENTATION

7. Document details on the Daily Water Treatment Room Checks Sheet



8. Proceed with [HGHNeph 14-20 Water Treatment Room Daily Checks: Nurse](#)

PROCEDURE 3: START UP OF RO2 OSMOSIS ONLY

Section A: Equipment shutdown

1. Position RO2 OSMOSIS key (S3) to “0”
2. Position RO1 OSMOSIS key (S2) to “0”
3. Position BIOSMOSIS key (S1) to “RO2”

Section B: Start-up of RO2 OSMOSIS mode

4. Position RO2 OSMOSIS key (S3) to “MAN”

Note: the RO2 system will be in operation after 3 minutes. Check that the remote panel for RO2 light is green and not flashing. There is a remote panel at the nursing station and one in the Technical Lab

Section C: Alarm

5. If an alarm occurs on one of the RO units press the “alarm” key on the RO screen to display the list of alarms. Refer to the Troubleshooting sheet attached to front of RO and to policy [HGHNeph 14-23 Troubleshooting Gambro Water Treatment](#)
6. Notify the Nephrology Biomedical Technical Services team in Ottawa at the Riverside campus at (613) 738-8400 ext. 82832 or 82825. If after 18:30, contact the Dialysis Technologist on Call at (613) 759-9229. Notify Clinical Manager

DOCUMENTATION

7. Document details on the Daily Water Treatment Room Checks Sheet



8. Proceed with [HGHNeph 14-20 Water Treatment Room Daily Checks: Nurse](#)

RELATED POLICIES / LEGISLATION:

1. Nephrology Policies and Procedures - [Hemodialysis - Section 14 - Unit Specific - HGH Neph 14-20 Water Treatment Room Daily Checks: Nurse](#)
2. Nephrology Policies and Procedures - [Hemodialysis - Section 14 - Unit Specific - HGH Neph 14-23 Troubleshooting Gambro Water Treatment](#)

REFERENCES:

1. Gambro Osmosis Operator procedures (June 21, 2011)
2. Gambro Operator's Manual for CWP 100, model WRO H/H DP (Rev 06.2012)
3. Nephrology Biomed Technical Services team
4. CSA-ISO 13959-15 *Water for haemodiaysis and related therapies*
5. CSA-ISO 26722-16 *Water treatment equipment for haemodialysis applications and related therapies*

COMMENTS / SIGNIFICANT REVISIONS: N/A