

	RESPIRATORY SERVICES	DATE CREATED: August 2007 DATE REVIEWED/REVISED: August 2016
POLICY & PROCEDURE	TITLE: <u>Pulmonary Diagnostics:</u> Cleaning of Medical Devices (Respiratory Therapy) NUMBER: B-00-12-12111	RELATED DOCUMENTS:

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SITE APPLICABILITY:

ST. PAUL'S HOSPITAL
MOUNT SAINT JOSEPH HOSPITAL

POLICY STATEMENT:

The Pulmonary Function Lab is responsible for cleaning delicate pulmonary function equipment that cannot be sterilized in the Medical Device Reprocessing Department (MDRD). A cleaning audit will be completed yearly by MDRD to allow the lab to continue cleaning these items.

GENERAL INFORMATION:

Items that will be cleaned in the cleaning room include:

- Methacholine challenge nebulizer blocks
- Nebulizer cups
- SpiroPro pneumotachs
- Hans Rudolf Valves
- Flow sensors from the cardiopulmonary exercise equipment

The cleaning room is located in room 8047.

REQUIRED SUPPLIES & EQUIPMENT:

- Gloves
- Gown
- Faceshield
- Cidex
- Empower
- Sterile Water
- Cidex Test Strips
- Thermometer
- High Level Disinfection Binder
- Blue pads

- Lint free clothes
- Towels
- Basins for rinsing

PROCEDURE:

1. Wear gloves, goggles/face shield and apron while cleaning items.
2. Clean all items in Empower detergent by soaking for a minimum of 1 minute.
3. Rinse items three times using sterile water and the three rinse containers provided.
4. Dry items using lint free clothes.
5. Next, soak items in Cidex OPA (high level disinfection) for a minimum of 10 minutes. Lid should remain on Cidex container while in use.
6. Rinse items three times (as described above) in a fresh set of sterile water using the separate rinse containers.
7. Place items on towels to dry.
8. If items cannot be cleaned on the day of use they should be left soaking in a basin of water overnight until they can be cleaned.

The Respiratory Therapist assigned to do calibration is responsible for the following duties which are to be completed on a daily basis.

- Change the drying towels
- Change the Empower solution
- Washing all plastic containers with soap and water
- Checking Cidex solution with test strips (*at start of shift*)
- Documenting all cleaning procedures in log book
- Changing Cidex solution every 14 days (*or earlier if visibly soiled*)

INSTRUCTIONS FOR THE USE OF CIDEX AND EMPOWER:

Cidex:

- Check expiry date on Cidex container to ensure solution is viable
- Once opened the unused portion of Cidex may be stored in original container for up to 75 days; Using an indelible marker write the date **75 days from opening date** on the outside of Cidex container
- Cidex that has been poured into cleaning tub must be discarded after 14 days or when the solution is visibly soiled
- Use Cidex at full strength, do not dilute; Cidex strength will be tested every morning
- Cidex temperature will be checked every morning
- If Cidex fails, the HLD Recall procedure will be followed ([see RTD7201](#))

Disposing of Cidex:

- Add 15 mL of Glute-Out to the Cidex solution
- Wait 5 minutes for the neutralization to occur (*solution will turn from blue to green*)
- With cold water running, dispose of the Cidex down the sink drain (*cold water must be running before, during, and after disposing the Cidex*)
- Clean and dry the container prior to refilling with new Cidex solution

Cidex Test Strips:

- Check expiry date
- Write **dated opened** and the **date 90 days from opening** on bottle
- Test strips are not to be used once 90 days has elapsed after opening bottle

Empower:

- Dilute solution at a ratio of ¼ oz Empower per 1 L of sterile water
- Solution must be discarded daily or earlier if solution visibly soiled

QUALITY CONTROL FOR CIDEX TEST STRIPS:**Preparation:**

- Check the expiry date for the Cidex solution
- Create a positive control (regular Cidex solution)
- Create a negative control (dilute 1 part Cidex with 1 part water)
- Label each solution

Testing:

- Submerge 3 test strips in each of the labeled solutions for 1 second
- Remove the strips and place them on a paper towel
- After 90 seconds check strips
- Positive control should be purple in color
- Negative control should be blue or have an incomplete color change
- Refer to color chart on the test strip bottle to interpret results

Frequency:

- Must be completed whenever a new bottle of Cidex test strips are opened

Documentation:

- Record results in the high level disinfectant record

REFERENCES:

1. MDRD Policy and Procedures

REVIEWED BY:

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