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Owner:	*Roshelle Satterthwait: Dir Perioperative Svcs*
Policy Area:	*Sterile Processing*
References:	
Applicability:	*WA - Kadlec Regional Medical Center*

High Level Disinfection 32.16.04

Document Type: Policy, Procedure

DISINFECTION PROCESS:

PURPOSE:

To establish guidelines for the utilization of high level disinfection of semi-critical reusable medical equipment.

POLICY:

1. All high level disinfectants will be used in accordance with their manufacturers recommendations and facility guidlines.
2. Personal protective equipment (PPE)(face shield, gown, shoe covers, hair cover and gloves) will be worn for the safety of the staff.

DISINFECTANTS:

- Revital-Ox Resert - Hydrogen Peroxide (8 minute soak time, 21 day shelf life)
- Rapicide - Gluteraldahyde (10 minute soak time, 28 days shelf life)
- Rapicide PA - Peracetic Acid (5 minute soak time, 21 day shelf life)

PROCEDURE:

1. Thoroughly clean all external surfaces and internal lumens of the device according to the manufacturer's recommendations.
2. Thoroughly rinse and dry the device.
3. Test the quality of the solution. (The Rapicide PA will be checked after soaking)
4. Ensure device is completely immersed in solution. Fill all internal lumens as applicable.
5. Leave device completely immersed for required time.
6. At the end of the required time, remove device from the solution using aseptic technique.
7. Ensure item is rinsed thoroughly with the appropriate quality of water based on manufacturers guidelines (if the automated process is used, the soaking takes place within the machine)

8. Thoroughly dry the device and store in a manner to minimize recontamination and according to manufacturer's recommendations.

For further information on processes, please refer to SPD Standards of Work and Competencies.

TEMPERATURE CONTROL:

All High Level Disinfectants must be maintained at their proper temperatures for use in accordance with manufacturers directions.

TESTING THE SOLUTION:

PURPOSE:

To determine that the disinfectant solution is above the minimum effective concentration and minimum recommended temperature required for the high level disinfection of medical devices.

POLICY:

1. The solution will be tested:
    - After a new solution is prepared
    - Immediately before disinfecting every device
2. The solution will be changed:
    - Every 21 days for Rapicide PA and Resert
    - Every 28 days for Rapicide
    - When it becomes discolored/cloudy
    - When it fails quality testing.

PROCEDURE:

1. Check the solution temperature with thermometer
2. Remove one test strip from the test strip bottle. Replace the bottle cap immediately.
3. Completely submerge the indicating pad of the test strip into the sample of HLD.
4. Leave the test strip in for the exact required time outlined by the manufactures IFU's. This may affect the results of the test.
5. Read the results of the color reaction present on the indicating pad after the test strip is removed from the solution at correct time according to manufacturers recommendations.
6. The indicating pad will be completely changed color to indicate an effective concentration of the solution. If any discolorization appears on the indicating pad, the solution is below the minimum effective concentration. Discard the solution.
7. Dispose of the test strip in a waste receptacle.
8. Document all results on the documentation log.

For further information on processes, please refer to SPD Standards of Work and Competencies.

TEST STRIP QUALITY CONTROL:

PURPOSE:

To ensure the accuracy of the test strip to determine the minimum effective concentration of the disinfectant solution.

POLICY:

A quality control test will be performed when a new bottle of test strips is opened. (This test is not required for Rapicide PA. Test Resert and Rapicide test strips only)

PROCEDURE:

1. Verify that the labeled expiration date is appropriate.
2. To prepare a positive control:
    - Undiluted full strength solution is used for the positive control.

   To prepare a negative control:
    - Dilute one part of full strength activated solution with one part of water.
3. Remove 3 test strips and dip into the full strength positive control solution. Read the indicating pad at required time. The test strips color should be completely changed.
4. Remove 3 test strips and dip into the diluted negative control solution. Read the indicating pad. The test strips should be completely unchanged or exhibit discolorization. Refer to the color chart on the test strip bottle for interpretation of results.
5. If the results obtained from using the positive and negative controls indicate the test strip is not functioning properly, discard the remaining strips. Notify the manufacturer. (quarentine and remove all strips with the same lot number)
6. Document in Quality Assurance Log with all required information.

For further information on processes, please refer to SPD Standards of Work and Competencies.

PATIENT IDNTIFICATION/REULTS

PURPOSE:

To provide guidelines for the proper recording of results.

POLICY:

1. Test date and results are recorded in the HLD log.
2. Name of individual conducting test.
3. Record RME Name and Serial number in log.
4. Indicate weather the RME was used on a patient or has exceeded its 7 day expiration date.
5. Patient information must be recorded in the HLD log and/or the tracking system.
6. Complete HLD log with remaining information.

For further information on processes, please refer to SPD Standards of Work and Competencies.

Attachments

No Attachments

Approval Signatures

Approver	Date
Kirk Harper: CNO	01/2020
Heather Shipman: Executive Assistant	01/2020
Roshelle Satterthwait: Dir Perioperative Svcs	01/2020

Applicability

WA - Kadlec Regional Medical Center