SUNY DOWNSTATE MEDICAL CENTER
UNIVERSITY HOSPITAL OF BROOKLYN
POLICY AND PROCEDURE

No: U/S 10

Subject: ULTRA SOUND TRANDUCERS CLEANING

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Original Issue Date: 3/2002

Supersedes: 3/2013

Effective Date: 5/2016

Committee Approvals: Radiation Safety Committee
Radiology PI Committee
Provision of Care Committee
Executive Performance Improvement council (EPIC

T. J.C. Standards: **NPSG 07.03.01(EP 7)** Implement policies and practices aimed at reducing the risk of transmitting multidrug-resistant organisms
IC.02.02.01 (EP.1,EP.5) When reprocessing single-use devices , the hospital implements infection prevention and control activities that are consistent with regulatory and professional standards

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Related Policies (SEC.16K) Infection Control Procedures / Radiology Dept.

Issued by: Radiology Department

I. PURPOSE

To provide guidelines for the proper cleaning of ultra sound transducers including trans-vaginal probes and thereby minimizes the risk of cross contamination

II. DEFINITION

Transducer : a device used in sonography to image internal organs. Transducers which are used to examine unbroken skin are considered non-critical device. Transducers which come in contact with either mucous membranes of non- contact skin are considered semi-critical devices. Each type has a specific cleaning method to ensure no cross contamination occurs between patients.

III. RESPONSIBILITIES

All staff technologist and clinical personnel using ultrasound transducers are responsible for adhering to this policy.

IV. POLICY

- All transducers utilized for preforming ultrasound procedures MUST be cleaned according to the manufacture's recommendation.
- Transducers must be routinely inspected for damage to the crystal component.
- Transduces must be removed from service if the crystal component is compromised or the connection cable is damaged.
- All Ultrasound technical staff is responsible to maintain the transducer cleaning log
- All staff utilizing CIDEX OPA cleaning solution MUST wear Personnel Protective Equipment.(PPE)

V. PROCEDURE / GUIDELINES

A. Non Critical Devices

- Remove all gel from the head of the probe
- Wipe thoroughly with paper towel
- Spray Head of probe using tran-septic spray and wipe clean
- Allow probe to air dry before placing it back in use

B. Semi-Critical Devices

- Semi-critical devices must be cleaned prior to disinfection, remove all blood, body fluids, tissue, etc. from probe by rinsing under warm water.
- Place the device in CIDEX Solution and let stand for 12 mins. @ 68 degrees.
- Following disinfection rinse device with tempered water three times (3x.)
- Dry the device using clean paper towels and place in a clean plastic bag
- Store the device in the plastic bag until needed for use.

VI. STORAGE OF CIDEX CPA SOLUTION

- CIDEX solution should be stored in its original sealed containers at controlled temperature 59-96 degrees F
- Opened CIDEX solution must be dated with the open date and expiration date (75 days) following the opening date of the container.
- The opened date/expiration date must be marked directly on the container.
- The expiration date must be entered into the CIDEX log book
- CIDEX Solution must be tested before each use, using CIDEX test strips and results entered in to the log book.

VII. CIDEX CPA SOLUTION POTENCY TEST

- Completely submerge indicating pad of one test strip into the CIDEX solution for 1 second.
- Remove excess solution by standing the strip upright on a paper towel. DO NOT shake the strip dry.
- Check color of strip after 90 seconds complete (more than 90secs can provide false information).
- The test strip should turn **purple**
- If any sign of **blue color** ***remains on the strip, the solution is ineffective and must be discarded.***

NOTE: If uncertain reference the color chart on the bottle of test strip

VIII. QUALITY CONTROL FOR CIDEX CPA SOLUTION

- CIDEX solution must be maintained at a minimum temperature of 68 degrees
- Temperature must be checked before each use and logged in the CIDEX log book
- Once in use, CIDEX can be used for a minimum of 14 days. The 14th. Day expiration date must also be entered into the log book.

IX. STORAGE OF CIDEX TEST STRIPS

- Test strips must be stored in the original bottle with the cap tightly closed.
- Once opened the test strips will expire in 90 days. The opened date and expiration date of the test strips must be entered in the log.

X. TEST STRIP QUALITY CONTROL

- The strips are used to test measure the strength of the solution
- When a new bottle of strips are opened the strips must be tested

XI. STRIP TESTING PROCESS

- Pour small amount of full strength CIDEX into 1 container and labels this "*positive control"*
- In a second container pour 1 part CIDEX and 1 part water (equal amounts). Labels the container "*negative control V"*
- Take 6 test strips and submerge 3 strips into each container for 1sec.
- Remove strip and let it stand for 90 sec.
- The 3 strips in the" *positive control "container should turn* ***purple***
- The 3 strips in the "*negative control "container should remain* ***blue***
- Refer to the color chart if not certain of the color change.
- The results of the test, date, time and signature of the person performing the test must be entered into the log book.

XII. ATTACHMENTS:

1. Policy-CIDEX OPA
2. Guideline for safe use
3. CIDEX OPA Solution test Strip

XIII. REFERENCES:

- *Guidelines for the safe use of ortho-phthapaladehyde (OPA)*
- *Manufacture's safety Data Sheets (SDS) for CIDEX OPA*
- *ASTMF 1518-00 Standard Practice for Cleaning and Disinfection of Flexible Fiber optic and Video Endoscopes Used in the Examination of the Hollow Viscera*
- *CIDEX OPA solution Test Strip. Johnson & Johnson company ASP Customer Support*
- *T.JC. Standards*
- *UHB Infection Control Dept. Policy (Sec.16K)Infection control Procedures for the Department of Radiology*

Date Reviewed	Revision Required (Check One)		Responsible Staff Name and Title
3/2002	**Yes**	**(No)**	James Shanahan, Radiology Administrator
3/2013		**(No)**	Oliver Jardine, Radiology Administrator
5/2016	**(Yes)**	**No**	Donna McKenzie, Radiology Administrator
	(Yes)	**No**	