

10 STEPS

to Successful
TEE Probe Reprocessing



CS Medical 

Step #1

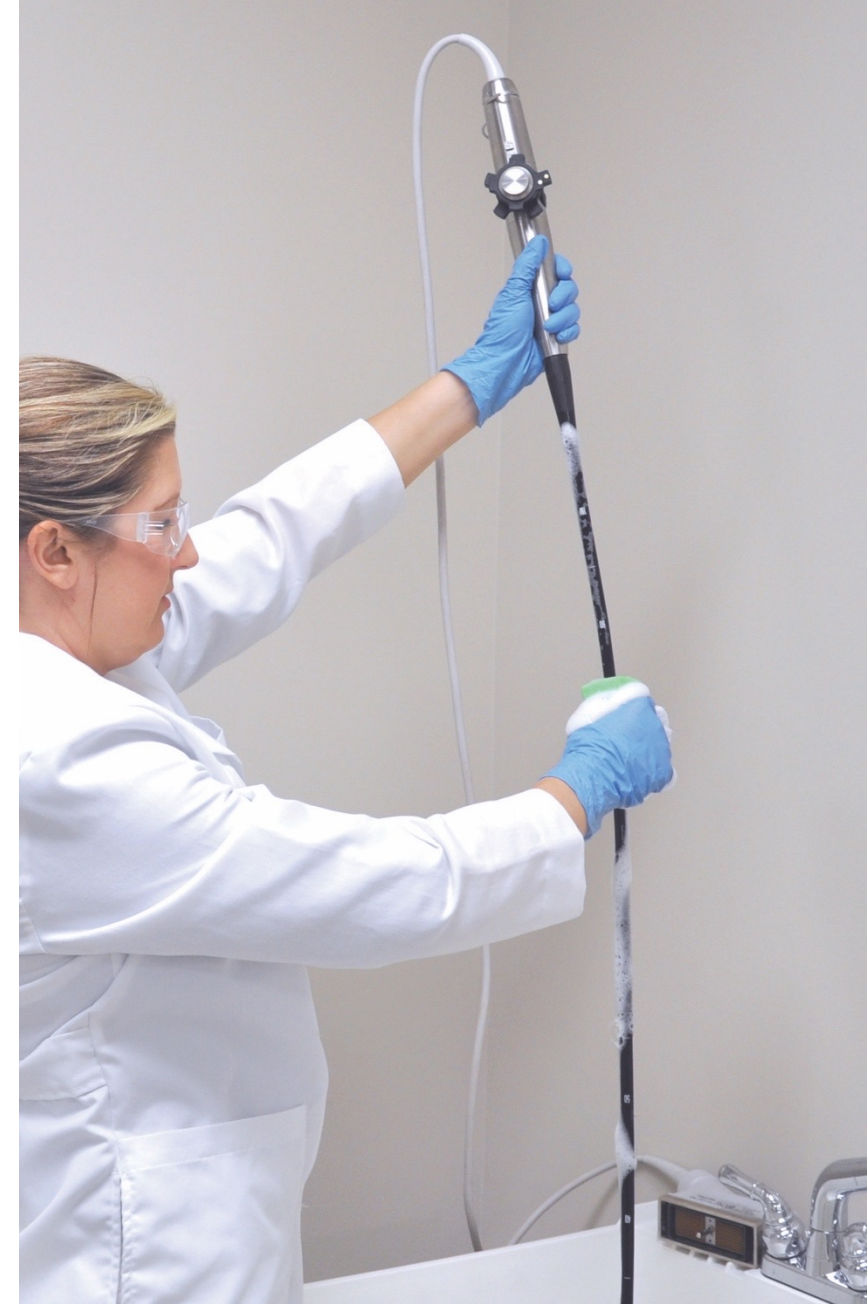
Point of Use Cleaning

TEEZyme™ Enzymatic Sponge



Bedside cleaning, also known as pre-cleaning, must be done for the successful reprocessing cycle of a soiled TEE ultrasound probe.

When the probe is removed from the patient it should be wiped with an enzymatic product to remove organic and inorganic soil so as to prevent these materials from drying on the probe.



Step #2

TEE Probe Transportation

TPorter™ Transportation Case (soiled probe)



Transportation of the potentially biologically soiled TEE probe should be handled with a device or method that minimizes the potential for probe damage as well as occupational exposure to fellow staff and other patients. TPorter is a solution designed by CS Medical to provide standardized care and handling of the TEE ultrasound probe during this critical portion of the reprocessing cycle. TPorter is designed to deliver the enzymatically treated soiled TEE probe from the procedure room to the designated area for reprocessing.



Step #3

Enzymatic Cleaning

Medizime LF Enzymatic Cleaner



Medizime LF is an enzymatic cleaner used by medical professionals nationwide.

The combination of enzymes and detergents is formulated to safely eliminate proteinaceous contamination and solubilize lipids on flexible scopes, and surgical instruments. Medizime LF provides the added benefit of being a low foam detergent. This facilitates lower sud production in manual cleaning basins.



Step #4

TEE Probe Rinse & Dry

QwikDry™ TEE Probe Drying Cloth



Drying of the TEE Ultrasound Probe, with a product like the QwikDry ultrasound drying cloth, is recommended before placing the probe into the high-level disinfectant solution. This can eliminate excess moisture that could interfere with subsequent microbicidal processes. Debris and gel can act as a barrier; while water can dilute the disinfectant which can mitigate the disinfection process.



Step #5

Electrical Leak Testing

Ultrasound Leakage Tester



Most TEE manufacturers' operator's manuals recommend electrical leakage testing before every patient exam.

Electrical leakage testing can be done with CS Medical's ULT-PC-31 electrical conductive probe within the TD 100® prior to high-level disinfection. Conducting the electrical leakage test, with the TD 100, is simple and requires less set up and supplies when compared to other solutions.



Step #6

High-Level Disinfection

TD 100 Automated TEE Probe Disinfector



The TD 100 is microprocessor-controlled and disinfects each TEE ultrasound probe with high-level disinfectant in only 5 minutes.

Verification is printed upon completion of each successful disinfection cycle.

A vapor management system captures and neutralizes disinfectant fumes.

The TEE probe handset is held securely within the TD 100. Specially designed hanger and mounts minimize strain on the cable and electrical connector of the TEE probe. The TD 100 saves labor and cycle time because setup requires less than one minute of operator interaction, while the whole disinfection and rinse cycle is completed in less than 17 minutes.



Step #6

High-Level
Disinfection

TD 100 Automated TEE Probe Disinfector



How does it work?



Step #6

High-Level Disinfection

TD 100 Automated TEE Probe Disinfecter

Printed verification

with average disinfectant temperature, disinfectant contact time, disinfectant lot number, operator and probe ID and time and date of disinfection

Touch Pad interface

Vividly labeled keypad with clear prompts on the LCD guiding the user through the process in less than 1mn

Automatic waste disposal

Upon completion of the disinfection cycle, the TD100CE automatically pumps disinfectant to drain and eliminated the potential for oversoaking the TEE probe



Probe and high-level disinfectant holder

The high level disinfectant container is held securely to deliver the exact measured dose for proper high level disinfection

Gas Phase Bonded Filter

Chemisorptive bonded gas phase filter eliminates exposure to harmful fumes and vapors associated with the high-level disinfectant



Step #7

Rinsing After High-Level Disinfection

Nephros Water Filter



The Nephros DSU-H filter is a patented, dual-stage, hollow-fiber water filter that retains bacteria, viruses, and endotoxins found in water. All filtration occurs in the first stage of the filter while the second stage serves as a redundant safety filter.

The expected life span of a DSU-H ultrapure filter is up to 6 months and is easily installed in-line between the TD 100 and the hospital water supply.



Step #8

TEE Probe Drying

QwikDry™ TEE Probe Drying Cloth



Drying of the TEE ultrasound probe, with a product like the QwikDry™ Ultrasound Drying Cloth, is critical before storage or transport. Wetted surfaces are prone to attracting airborne contaminants resulting in probe contamination and potential HAIs being passed from the environment to the next TEE patient.

By drying the probe before storage the potential for bacterial growth is removed from forming on the TEE ultrasound probe.



Step #9

Probe Storage

CleanShield™ TEE Probe Storage Cabinet



TEE ultrasound probes should be stored in a dry environment, hung vertically and within a HEPA clean environment.



Step #10

TEE Probe Procedure Transport

TPorter™ Procedure Case (clean probe)



Each TEE ultrasound probe must be transported from the patient procedure room to a designated area for reprocessing.

The method of transport should deliver the probe to the procedure room without re-introducing contaminants or without dropping or hitting the transducer on any surface that could result in damage and to ensure proper probe operation.

