

SUBJECT: Trophon® Environmental Probe Reprocessor (EPR)	REFERENCE
COMMAND: NAVAL MEDICAL CENTER PORTSMOUTH	NMCP Infection Control Manual, Chapter 2
APPROVED BY: Infection Prevention and Control Committee	EFFECTIVE: 24 Sep 2013 REVISED:

PURPOSE:

Provide guidance for achieving high level disinfection (HLD) using the Trophon® EPR in accordance with manufacturer’s recommendations and infection control guidelines.

*The sole purpose of the Trophon® EPR is to high level disinfect all ultrasound transducers according to the specified processes outlined in the Trophon® EPR manual. It is not intended for any other use. Do **NOT** use this device for any application other than its intended purpose.*

Consult the manufacturer’s guide to ascertain if the probe can be high level disinfected using the Trophon® EPR before beginning the process. Any update(s) to previous manufacturer’s recommendations must be maintained with the original owner’s manual.

BACKGROUND:

The reference requires that HLD be performed by staff members who have had appropriate training and can demonstrate competency in performing HLD. HLD is the minimal requirement for semi-critical items as outlined by the Spaulding Classification System and the Centers for Disease Control and Prevention (CDC). Semi-critical items are those items that have been exposed to non-intact skin or mucous membranes and should receive a minimum of HLD.

SCOPE:

This policy applies to all command clinics and personnel who perform HLD using the Trophon® EPR system.

POLICY:

A. Any area at NMCP Command that desires to acquire a Trophon® EPR system for HLD in their area must contact Infection Control prior to purchase.

B. Any area at NMCP command that orders a Trophon® EPR to perform vaginal ultrasound probe disinfection (HLD) is required to purchase the Trophon® EPR printer for each unit purchased.

C. Department Heads (DH) and/or Clinic Managers are responsible for monitoring all personnel conducting HLD.

D. The DH and/or Clinic Manager will appoint a Point of Contact (POC) for their departmental HLD processing. The POC will know how to perform the HLD process using the Trophon® EPR. The appointed POC will be accountable to Infection Control and the DH/Clinic Manager and is responsible for the following:

- a) Oversight of the entire Trophon® EPR process for their area;

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- b) Conducting and documenting random and periodic inspections of the HLD process making sure the documentation logs are correct;
- c) Ensuring documentation logs and competencies are available when requested. (Documentation logs are to be maintained for at least 3 years);
- e) Ensuring that all personnel who perform HLD using the Trophon® EPR are trained, employing an actual demonstration of the process and maintaining the competency records for initial and annual training which will occur in July of each year;
- f) Making sure all Trophon® EPR users are trained in accordance with the Trophon® EPR manual to ensure safe operation, including watching the Trophon® EPR video, receiving a certificate of completion;
- g) Developing and maintaining a current signature log of all Trophon® EPR users. The signature log must be maintained in the Trophon® EPR log book along with all pertinent information pertaining to the process, including the daily documentation logs;
- h) Making certain all users are aware of the potential hazards in dealing with the disinfectant, detection methods, and safety procedures associated with the device.

Disinfection Process:

At the beginning of the cycle, the Trophon® EPR creates an aerosol of concentrated hydrogen peroxide. This is quickly and evenly distributed over the surface of the probe, including very small crevices. This process provides thorough, high level disinfection of the shaft and the handle of the probe. The device breaks down the hydrogen peroxide into small particles of water and oxygen, and then safely vents them into the external environment. The only required personal protective equipment for this HLD process is clean gloves.

The following statements regarding the entire Trophon® EPR HLD process apply:

- The probe must be pre-cleaned and dried BEFORE the HLD process can commence in the Trophon® EPR. Use a hospital approved enzymatic cleaner or disinfecting wipe, following directions of product being used, ensure cleaner being used is approved by the probe manufacturer.
- Probe must be correctly inserted in the device for a cycle to run.
- A chemical indicator must be used for each disinfection cycle and can only be used one time.
- After correctly loading the probe into the chamber, a chemical indicator shall be placed into the holder on the floor of the device chamber.
- The door will automatically lock when closed.
- If the device is not used for 120 minutes or if a probe has been left inside the device for an extended amount of time, it will automatically enter **SLEEP** mode.
- **The Trophon® EPR must be left connected to power and switched ON at all times.**

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- Press blue button periodically. This shortens the warm-up cycle.
- Always keep chamber door closed when not in use.
- Warm up cycle can take up to 45 minutes.
- Machine must be maintained on a flat surface with at least 10” clearance on all sides.
- Machine must be placed in a stationary, well-ventilated area and not moved.
- The purge cycle removes any remaining disinfectant from the cartridge and the inside of the device and converts the Sonex-HL into oxygen and water.
- Oxygen is vented into the atmosphere. Water is collected in the waste container inside the device (maximum capacity 150mL).
- The purge cycle takes 35 minutes to complete. After completion, the waste container should be removed, contents emptied into sink, rinsed and dried with a clean cloth, and returned to its location.
- The Trophon® EPR chemical indicator chart and Trophon® EPR use chart must be posted in the area where the Trophon® EPR is being used.

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REFERENCES:

APIC Text of Infection Control and Epidemiology. Carrico, R., 3rd Edition. Washington DC, APIC Inc., 2009.

Trophon EPR user manual- N00010. M0062540. 03/12.