“The way a team plays as a whole determines its success. You may have the greatest bunch of individual stars in the world, but if they don’t play together, the club won’t be worth a dime.” – George Herman

Stacie Patterson

NCAH CSP President

Please note the new CEU submission requirements, as found on Page 6 of this newsletter. ALL requests for CEU must now be sent via e-mail, to the address listed. This is
Trophon HLD: What is it? Why use it?
Lana Haecherl, ST, CSPDT

Objectives:

What is a Trophon
Discuss what you can place in the Trophon
Define how high level disinfection is accomplished using the Trophon
Discuss the benefits of using the Trophon over traditional liquid chemical disinfectants

Nanosonics was founded in 2001 and is head-quartered in Sydney, Australia. In 2007 it was listed on the Australian Securities Exchange (NAN). In 2009, Nanosonics launched Trophon, a unique, automated technology for the high level disinfection (HLD) of intracavity and surface ultrasound probes. In August of 2018, Nanosonics launched Trophon®2, the latest innovation in ultrasound probe high level disinfection. Nanosonics has broken new ground in completely re-thinking ultrasound reprocessing. Trophon EPR was a breakthrough solution across three core areas: Safety, Versatility, and Simplicity.

Nanosonics is an innovator in infection prevention. Their unique, automated Trophon® EPR high level disinfection device has paved the way around the world in setting a new standard of care in ultrasound probe disinfection practices. Trophon is a global solution for reducing cross contamination between patients and reducing the spread of Healthcare Acquired Infections (HAIs). With a growing trend around the world towards stricter ultrasound probe reprocessing guidelines, traditional systems have been falling behind in their ability to meet today’s demanding requirements. The cutting edge technology used in Trophon has really disrupted the disinfection market and was the first major innovation in ultrasound probe HLD in more than 20 years.

Why HLD ultrasound probes? To reduce ultrasound probe cross infection risk, you need to know why and when to perform the high level disinfection (HLD) process.

HLD ensures that you deliver a standard of care for patient and staff safety during ultrasound procedures while maximizing compliance.

Deliver Patient and Staff Safety. If certain standards of care are not met, the consequences can be serious.

Patients have previously been put at risk of infection transmission due to inadequate cleaning or disinfecting and non-compliance with recommended reprocessing procedures.
1 in 25 hospital patients will have at least one health-care acquired infection (HAI) on any given day.

Up to 70% of HAIs are preventable using existing infection prevention practices.

Death has been associated with improperly reprocessed ultrasound probes.

First population-level study of its kind reveals increased risk of infection and antibiotic prescriptions following semi-invasive ultrasound probe procedures.

“Even if probe covers have been used, clean and high-level disinfect”. CDC Guidelines 2008

“Routine high-level disinfection of internal probes between patients is mandatory”. AIUM Guidelines 2014

“Joint commission alert is a another wake-up call for awareness of improper HLD or sterilization”. TJC alert 2014

Maximize Compliance

HLD is mandated by the CDC as the minimum standard in ultrasound probe reprocessing for semi-critical procedures (i.e. intracavity and surface ultrasound probes that contact mucous membranes or non-intact skin). Unfortunately this minimum standard is not always being met.

Multiple guidelines now recommend HLD between patients to reduce the risk of cross contamination.

Infection-control professionals need to ensure that their internal policies are consistent with these national guidelines to ensure compliance.

So how does the Trophon work?

Ultrasonic vibrations generate sound-wave energy to create an H$_2$O$_2$ ultrafine mist.

The quantity controlled ultrafine hydrogen peroxide (H$_2$O$_2$) mist enters Trophon’s decontamination chamber via side ports and gently swirls around to cover the entire surface of the probe and handle. The mist particles penetrate even shadowed areas formed by crevices, grooves and imperfections on the probe surface. A small and controlled dose of sonicated hydrogen peroxide (H$_2$O$_2$) mist ensures compatibility with the materials of Trophon approved ultrasound probes.

Free radicals disperse, disrupt and kill bacteria, fungi and viruses.

Sonication creates a supercharged mixture of hydrogen peroxide mist containing free radicals that kill bacteria and fungi by reacting with their cell membranes and contents.

The free radicals also react with and damage the molecular structure of viruses, preventing viral infection and replication. Well documented research shows that that Trophon is the first high level disinfection system proven to kill high risk, cancer-causing human papillomavirus (HPV).  

After disinfection, residual hydrogen peroxide is removed from Trophon’s decontamination chamber and passed through technologically advanced destructors where it is broken down primarily into environ-
mentally-friendly water and oxygen.

The intelligent Trophon control unit enables sensors to monitor temperature, mist volume and flow rates throughout the process, creating and maintaining a reliable HLD environment with every cycle.

A global breakthrough in HLD for intracavity and surface ultrasound probes.

Trophon’s intelligent control unit confirms via an onscreen message that the HLD cycle is complete. Success is also validated by the chemical indicator color change (when the cycle meets the pass criteria the indicator changes color to match the color assessment chart provided). With these two processes, you can be assured that successful HLD of the probe has occurred.

So what are the benefits?

The Trophon minimizes staff exposure to hazardous chemicals, fumes and spills as it offers a unique ‘closed’ system for the high level disinfection of ultrasound probes.

Sealed disinfectant cartridge that remains sealed until inside the Trophon disinfection takes place within a compact, closed-door decontamination chamber, utilizing a sealed disinfectant cartridge.

No manual test strips
May eliminate the need for special ventilation
May help reduce requirements for Personal Protective Equipment
Operators simply load the probe, close the door and press a button to start.

A small and controlled dose of sonicated hydrogen peroxide mist is then released into the chamber, which swirls around to completely cover both the probe and handle. This ultrafine, supercharged mist works inside the chamber to kill viruses, bacteria and fungi by reacting with their cells. The Trophon’s intelligent control unit enables sensors to monitor temperature, mist volume and flow rates throughout the process, all within the closed device. No external user intervention is required. As everything happens inside of Trophon, there is no manual soaking or mixing of chemicals. The Trophon minimizes exposure to nasty fumes, meets Occupational Safety and Health
Administration (OSHA) – Permissible Exposure Limits. EH40/2005 Workplace exposure limits.

References:

http://www.cdc.gov/hai/surveillance/


American National Standards Institute (ANSI),
Trophon HLD: What is it? Why use it?

1. The Trophon is designed for intracavity devices only.
   True  False

2. The Trophon uses sonicated hydrogen peroxide mist.
   True  False

3. If probe covers have been used there is no need to clean and high level disinfect the ultrasound probe?
   True  False

4. You have to mix the hydrogen peroxide prior to adding it to the Trophon.
   True  False

5. HLD stands for High Level Disinfection.
   True  False

6. There is no need to clean and disinfect probes between patients.
   True  False

7. There have been documented cases of death, due to improperly cleaned and disinfected ultrasound probes.
   True  False

8. HAI stands for Health and institute standards.
   True  False

9. The Trophon reduces staff exposure to fumes and spills.
   True  False

10. The CDC mandates HLD as the minimum standard for ultrasound processing.
    True  False

NEW PROCESS FOR SUBMITTING TEST
* Complete TEST, take a picture of completed TEST, send picture to email address ceu.ncahcsp@gmail.com.
* As of 04/01/2019, the PO Box is no longer available. All submissions must be sent via the e-mail address.

Your certificate will be returned via the above email address, if your score is greater than 70%.
If you are not a member of NCAHCSP, please go to the website www.ncahcsp.org Membership link.
CEU Expiration Date CBSPD: 3/31/24
CEU Expiration Date IAHCSMM: 3/25/21
Allow at least six weeks for processing.

PRINT NAME CLEARLY:

E-MAIL ADDRESS: ____________________________________________________________
(New e-mail address)

PHONE NUMBER: ____________________________________________________________
The National Suicide Prevention Lifeline is a United States-based suicide prevention network of 161 crisis centers that provides a 24/7, toll-free hotline available to anyone in suicidal crisis or emotional distress. After dialling 1-800-273-TALK, the caller is routed to their nearest crisis center to receive immediate counseling and local mental health referrals. The Lifeline supports people who call for themselves or someone they care about.

Notes

- Please submit your questions to Dear Steamie.
- Please allow six weeks for CEU processing and plan accordingly.
- Please print clearly when filling information in on your test sheets.
- Please make sure your email address is correct and legible.
- Changed your e-mail address, ensure you’ve “checked” the box.
Dear Steamie,

We just were informed that we will now be responsible for re-processing our facilities vaginal probes. These probes are validated for High Level Disinfection using a Trophon. Can you give us some information on this product?

Sure. The Trophon is a fully automated system to offer High level Disinfection for Ultrasound Probes.

The Trophon offers a fast 7 minute cycle using a sonic activated hydrogen peroxide mist. There is no minimum effective concentration testing required and can disinfect both the handle and probe in one step.

The unit offers on screen messaging and confirmation via print-out of cycle completion.

The unit is relatively small making it a perfect choice for smaller areas such CV Lab and Radiology.

There are several vendors. Reach out to your local sales representative to find a Model that meets your needs.

Hope you find this information helpful.
Lemon Lime Cheesecake Squares
added by Pat Duran

Cook time: 35 Min  Prep time: 30 Min  Serves: 36 to 48 bars

Ingredients

CRUST:
18 oz pkg. lemon, yellow or chocolate cake mix
1/2 c real butter, softened
1 c finely crushed hi ho or saltine crackers
1 large egg

FILLING:
3 large egg yolks only
14 oz can sweetened condensed milk
1/2 c lemon juice or real lemon juice from concentrate

TOP LAYER:
3 large egg yolks, only
14 oz can sweetened condensed milk
1/2 c lime juice or real lime juice from concentrate
2-3 fl drops green food coloring, optional

Directions

1. Preheat oven to 350°. Spray a 15x10-inch baking pan. Crust: In large bowl, combine cake mix, butter and egg; mix well (mixture will be crumbly). Stir in cracker crumbs. Press mixture firmly on bottom of pan and bake 15 minutes.

2. Filling: In medium bowl, combine egg yolks, sweetened condensed milk, and lemon juice; mix well. Spread evenly over baked crust. Set aside.

3. Top Layer: In medium bowl beat egg yolks, gradually beat in sweetened condensed milk and Lime juice. Stir in food coloring if using. Pour evenly over lemon filling. Using a chop stick swirl the mixtures together to crate a marbled effect, being careful not to touch down to crust.

4. Bake at 325° (turn oven from 350°)

Thank you Christi Tucker, Karen Furr, Tammy Franklin, & Stacie Patterson for the recipe contributions.
Future Education Meetings

► The Annual meeting will be held on April 17-19, 2019 at the Hilton in Myrtle Beach, SC.
► The Summer meeting will be held on August 23, 2019

Visit our website www.ncahcsp.org You’ll find details as well as brochures and registration information. We are now IAHCSMM (www.iahcsmm.org) affiliated!
North Carolina Association for Hospital Central Service Professionals will establish itself statewide as the leading educational organization through innovative programs that enhance the development of the Central Service Professionals.
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