More and more, healthcare-acquired infections (HAIs) are a major challenge for healthcare organizations. Consider these facts:

- 1 in 25 patients will acquire an infection during a hospital stay\(^1\)
- HAIs cost the U.S. up to $147 billion annually in direct and indirect costs\(^2\)
- Up to 70% of HAIs are preventable using existing infection prevention practices\(^3\)
- Of the 1.7 million people infected in U.S. hospitals each year, 98,987 die\(^4\)

As a result, there are more efforts around controlling and preventing HAIs than ever before – and the disinfection of ultrasound transducers can play a critical part in that.

- 12.9% of transducers are contaminated with pathogenic bacteria following routine disinfection\(^5\)
- Up to 7.5% of transvaginal ultrasound transducers were found to have HPV DNA, a known cause of cervical cancer, after low-level disinfection with wipes\(^6\)
- Up to 9% of barrier sheaths and condoms leak\(^7\)
- One of the top 5 non-compliance findings by The Joint Commission is reducing the risk of infections associated with medical devices or equipment\(^8\)
trophon EPR
Automated, high-level disinfection of transducers

Sophisticated yet simple to use, trophon EPR is an environmentally friendly, efficient system for the complete high-level disinfection of ultrasound transducers. Using proprietary technology, the system helps make the task of high-level disinfection of ultrasound transducers fast and more convenient in just a few simple steps.

How it works
The probe and Chemical Indicator are loaded into the system and the Start button is pressed to begin the automated process. A controlled quantity of ultrafine hydrogen peroxide mist enters the decontamination chamber, gently covering the entire surface of the probe to kill bacteria and fungi, and prevent viral infection and replication.

With advanced software controlling the process at all times, the entire probe, including the handle, is high-level disinfected in just seven minutes. Residual hydrogen peroxide is broken down into environmentally friendly water and oxygen. The intelligent control unit determines that the high-level disinfection cycle is successful, which is validated by the Chemical Indicator’s color change for complete process quality assurance.

The probe is then removed from the system, ready for use.

Why take risks when you have options?
A new study shows that trophon EPR is the first high level disinfection system for ultrasound probes proven to be effective against high-risk, cancer causing strains of Human Papillomavirus (HPV).9

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Hospital CEO

“We’re constantly being squeezed to scan more patients in less time. trophon EPR may help us better manage those heavier patient loads.”
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Ultrasound | Department Supervisor

“I have spent 10 years soaking transducers and exposing myself to chemicals. I look forward to a solution that eliminates that.”
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Sonographer
Fast, automated 7-minute cycle
Automated, easy-to-use high-level disinfection with one-touch operation requires fewer manual steps (compared to other methods of probe reprocessing), so you can do other things while the transducer is in the system. Fast reprocessing at the point of care can create workflow efficiencies and may result in less probes required for the same patient volume.

Limits exposure to harmful chemicals
With the self-contained and automated high-level disinfection process, the disinfectant cartridge remains sealed until inside the system, so there’s no need for special ventilation, and may reduce requirements for Personal Protective Equipment.

Cost efficient
trophon EPR integrates into the high-level disinfection process at the point of care and helps improve workflow.

Consistency in process
Each high-level disinfection cycle is validated by sophisticated sensor technology and the Chemical Indicator, for clinical validation that helps ensure compliance with leading healthcare recommendations.

Designed for effectiveness, ease and efficiency.

Traceability
The optional traceability solution links the probe and HLD cycle data and time with the patient and procedure. This can help you meet compliance requirements with audits and accreditation. The trophon EPR Printer provides labels for records, helping to eliminate missing information.

Probe-friendly process
Over 930 probes are OEM-approved for use with trophon EPR, and the process requires no soaking – it exposes probes to a very low amount of hydrogen peroxide mist and disinfects both the probe and the handle.

Environmentally friendly
The fully enclosed system limits exposure to harmful chemicals and breaks down the hydrogen peroxide disinfectant into harmless, environmentally friendly by-products: oxygen and water that can be disposed of in a sink. And more than 70% of trophon EPR components, such as disinfectant bottles, are recyclable.

**Imagination at work**

[www.gehealthcare.com](http://www.gehealthcare.com). Product may not be available in all countries and regions. Contact a GE Healthcare Representative for more information.

Data subject to change.

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