



## The culprit

CRE — Carbapenem-resistant Enterobacteriaceae account for about 9,300 HAIs each year, and almost 50% of patients who develop bloodstream infections from CRE bacteria die from them.1

509,300 infections per year<sup>2</sup>

19,650 deaths2

C. diff — A study found that Clostridium difficile (also known as Clostridioides dfficile) caused over 500,000 infections among patients in a single year and over 19,000 deaths.3 It is the most common microbial cause of HAIs in the U.S. with 1 out of every 11 patients aged 65 or older dying within 30 days of diagnosis.

#### The costs

CRE - The cost of a single CRE infection, depending upon type, ranges from \$22,484 to \$66,031 for a hospital. Average cost per hospital for CRE infections is \$3.15 million every year.4

C. diff - Each patient with an infection costs \$24,205 more than those without an infection, for a

<sup>s</sup>4.8 billion per year total of \$4.8 billion annually

across all U.S. hospitals.5

\$3.15

million per hospital

per year

Your reputation— For facilities and doctors the impact on reputation and public perception are significant. With patient "choice" paramount in the health care system, can your facility afford to be known as the "infection hospital?"

Legal — Beyond care costs and reputation, litigation from infection-related deaths can run into the millions, with one case awarding the patient's family \$6.6 million.6

## The recent **safety** communication

Repeat or double HLD

has been shown not to provide significant

microorg

Hospital and Endoscopy Facilities: Important Recommendations for duodenoscopes



Consider reprocessing with supplemental measures such as sterilization or use of a liquid chemical sterilant processing system consistent with the device's labeling.<sup>7</sup>

## Sterilization: The only effective choice

Only sterilization eliminates all types of microbial life, including bacteria and spores (CRE and C. diff). By comparison, HLD does not eliminate spores, leaving you, your facility and patients open to the risk of infection.

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ganisms e HLD <sup>8</sup>	MICROORGANISM Type	LIQUID	DISINFECTION		
		CHEMICAL STERILIZATION	HIGH LEVEL	INTERMEDIATE LEVEL	LOW
MORE DIFFICULT TO KILL	Bacterial Spores				
	Mycobacteria				1
	Non-enveloped viruses		A		
	Fungi			A	
	Gram Negative Bacteria				
	Gram Positive Bacteria				
LESS DIFFICULT TO KILL	Enveloped Viruses				1

### Ethylene Oxide (EtO):

A sterilization choice, but not the solution

- Poor material compatibility with endoscopes
- 13-24 hours cycle time
- FDA challenges facilities to reduce EtO emissions to near zero



## Liquid Chemical Sterilant Processing:

### The most practical choice

How do you follow the recent safety recommendations?
How do you provide the highest standard of care?
How do you reprocess endoscopes productively

to keep up with procedures?
Liquid Chemical Sterilant Processing (LCS)
makes it easy and practical.

- Provides liquid chemical sterilant processing for complex endoscopes
- No odor, ventilation required
- Biodegradable with no special disposal requirements
- 18-minute cycle time





300,000,000+

endoscopes reprocessed without an infection using a liquid chemical sterilant processing system.9

## SYSTEM 1 endo:

# Liquid Chemical Sterilant Processing System



- https://www.livescience.com/50041-cre-symptoms-treatment.html
- 2 Aggregate of *C.diff* and CRE infections amd deaths. Source: https://www.cdc.gov/media/releases/2015/p0225-clostridium-difficile.html, https://www.livescience.com/50041-cre-symptoms-treatment.html
- https://www.cdc.gov/media/releases/2015/p0225-clostridium-difficile.html
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5547745/
- https://www.cdc.gov/media/releases/2015/p0225-clostridium-difficile.html
- 6 https://www.seattletimes.com/seattle-news/health/virginia-mason-awarded-66m-in-contaminated-scope-lawsuit/
- https://www.fda.gov/medical-devices/safety-communications/fda-recommending-transition-duodenoscopes-innovative-designs-enhance-safety-fda-safety-communication?utm\_campaign=2019-08-29%20 CDRH%20Safety%20Comm%20-%20%20Recommendations%20and%20Updates%20to%20Help%20Improve%20Duodenoscope%20Reprocessing&utm\_medium=email&utm\_source=Eloqua
- 8 https://scholarworks.iupui.edu/bitstream/handle/1805/17101/Rex\_2018\_double.pdf?sequence=1&isAllowed=n
- 9 Number of reprocessing events without reported infection traceable to the processing system when using endoscopes processed correctly according to IFU. Internal STERIS data based on sterilant concentrate sales

For more information about the SYSTEM 1 endo Liquid Chemical Sterilant Processing System visit steris.com/system1endo



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The MOST Practical Solution