

LABORATOIRES ANIOS
HÔPITALUX - CLINIQUES
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Soluscope

ENDOSCOPES REPROCESSING

Recycling vs Single shot machines

What the guidelines tell us?

Europe: According to ISO 15883-4:2009, clause 4.4.5, "Discharge of disinfectant solutions after a single use during each cycle is the preferred option".

UK Department of Health, which states that "The disinfectant solution should be used only once and discarded".

The Public Health Agency of Canada guidelines are more specific and explain the potential risks of reusable high-level disinfectants: "The high level disinfectants that are reused can lose efficacy through excessive dilution and/or inactivation".

Cross contamination	Guidelines	Comparison	Conclusion
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Focus: Endoscope cross contamination

If endoscopes and their accessories are not correctly cleaned following facts can occur:

- Chemistry could be too diluted after several cycle (rinsing) → efficiency at risk
- Cross contamination
 - Helicobacter Pylori
 - Blood borne viruses
 - Etc

The 2015 TOP 10 HEALTH TECHNOLOGY HAZARDS list.

1. Alarm hazards
2. Exposure hazards from radiation therapy and CT
3. Medication administration errors using infusion pumps
4. **Cross-contamination from flexible endoscopes**
5. Inattention to change management for medical device connectivity
6. Enteral feeding misconnections
7. Surgical fires
8. Needlesticks and other sharps injuries
9. Anesthesia hazards due to incomplete pre-use inspection
10. Poor usability of home-use medical devices

patient safety

Cross contamination	Guidelines	Comparison	Conclusion
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Comparison recycling vs single-shot machines

Recycling	Single shot	Comments
Open to many chemistry	AER/Chemical system validation	Different chemistry can have different effects on 1 machine
Chemistry is re-used for several endoscopes	One usage only = Proven efficacy	Needs of control of the solution (test strips). Risk of cross contamination
No self-disinfection cycle	Self-disinfection cycle	If machine infected, risks of contamination for all endoscopes
Temperature and contact time can be modified	Temperature and contact time cannot be modified	No risk of human error
Alarms on standard parameters	Alarms on critical parameters	Single shot machines are more sensible to any errors and stop automatically

Cross contamination	Guidelines	Comparison	Conclusion
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Focus: Endoscope cross contamination

Transmission of infection via endoscopes are :

- Failure to follow established guidelines for reprocessing
- The manual reprocessing actions appear most prone to error. → Human action is less safe.

Cross contamination	Guidelines	Comparison	Conclusion
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More information at Vietmedical booth

- ✓ Simple
- ✓ Cost effective
- ✓ Robust
- ✓ Fast cycle

SERIE 1 SERIE 3

Cross contamination	Guidelines	Comparison	Conclusion
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Conclusion

Some of the key benefits from a single shot machine are:

Reducing human actions for more safety and performance.
→ The Recycling machines keep some limits of manual reprocessing

The global guidelines are clearly in favour of single-shot usage of high level disinfectants in machines, especially to avoid cross contamination.

Cross contamination Guidelines Comparison Conclusion



Thank you for your attention

Cross contamination Guidelines Comparison Conclusion

