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Summary

KIREI-X and ball brush for automated endoscope reprocessing (CBC Europe)

UEG Week Barcelona 2026 | Presentation

Nurses

October 17, 2026

Laboratory evaluation of an automated endoscope reprocessing unit using circulating ball brushes demonstrated cleaning efficacy equivalent to manual brushing and compliant with ISO 15883 standards across tubing, surrogate devices, and actual endoscopes.

KEY POINTS

- The speaker tested a single-use cleaning system using electrolytic acid water and three circulating ball brushes per cycle, comparing it to standard manual brushing for protein and total organic carbon removal.
- In biofilm-contaminated tubing, two or three ball brushes achieved no statistical difference compared to standard manual brushing, though one ball brush alone was less efficient.
- Testing with coagulated blood on tubing, surrogate endoscopes, and actual endoscopes (bronchoscopes, cystoscopes, gastroscopes, colonoscopes, and duodenoscopes) showed protein and total organic carbon levels below ISO 15883 target limits.
- For duodenoscopes, manual brushing of the distal end was maintained while channels were cleaned with ball brushes, whereas simpler endoscopes required no manual brushing.
- The speaker expressed confidence that automatic brushing systems may replace manual channel brushing for simpler endoscopes in the future, while emphasizing that manual brushing remains necessary for complex devices like duodenoscopes.

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