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Summary

Water quality and optimisation of cleaning results (Chemische Fabrik Dr. Weigert GmbH & Co. KG)

UEG Week Barcelona 2026 | Presentation

Nurses

October 17, 2026

The speaker discussed optimizing manual endoscope pre-cleaning across different water qualities, explaining that while demineralised water is ideal, their company's cleaner can accommodate drinking water through integrated chelating agents that neutralize hardness ions.

KEY POINTS

- The speaker stated that demineralised water provides the best cleaning performance, softened water is second priority, and drinking water is third priority for endoscope pre-cleaning.
- Water hardness is defined as the quantity of calcium and magnesium ions, which form insoluble soap scum and reduce surfactant activity in detergents.
- The speaker explained that their cleaner incorporates chelating agents (complexing agents) that neutralize hardness ions without removing them, protecting surfactant function when demineralised or softened water is unavailable.
- Hard water requires higher detergent concentrations because chelating agents must first bind the water hardness ions, and dosage must be adapted to local water conditions.
- The speaker is a key account manager at Doctor Weigert and presented on their company's cleaning product for endoscope pre-cleaning.

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