

# Universal Wipes

## Summary of the CLEEN study

**clinell**<sup>TM</sup>  
SURFACE

Investigating the Effect of Enhanced Cleaning and Disinfection of Shared Medical Equipment on Healthcare-Associated Infections (HAIs) in Australia (CLEEN): A Stepped-Wedge, Cluster Randomised Controlled Trial (RCT)



Published in: The Lancet Infectious Diseases on August 1, 2024 | DOI: [https://doi.org/10.1016/S1473-3099\(24\)00399-2](https://doi.org/10.1016/S1473-3099(24)00399-2)  
Authors: Katrina Browne, Brett Mitchell et al.

### Design and location



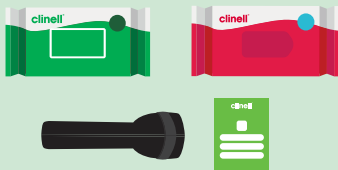
A stepped-wedge, cluster randomised controlled trial conducted over **36 weeks in 10 wards** in a large public hospital in New South Wales, Australia

### Intervention



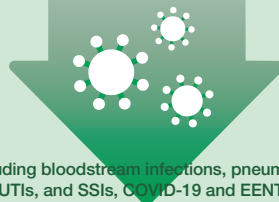
Enhanced cleaning involved an additional **3 hours per weekday** dedicated to cleaning shared medical equipment for each ward, alongside ongoing staff education, audits, and feedback

### Products used:



Clinell Universal Wipes, Sporidical (Peracetic Acid) Wipes, EvaluClean<sup>TM</sup> and Indicator Notes

**34.5%**  
relative reduction in HAIs



including bloodstream infections, pneumonias, UTIs, and SSIs, COVID-19 and EENTs\*

Thoroughness of cleaning improved significantly from **18.2% to 56.6%** during the intervention



### Outcome measure

The primary outcome was the rate of confirmed HAIs, assessed by a fortnightly point prevalence survey.

### Interpretation

Enhanced cleaning and disinfection of shared medical equipment significantly reduced HAIs by 34.5%, underscoring the crucial role of cleaning in improving patient outcomes. Findings emphasise the need for dedicated approaches for cleaning shared equipment.

\*Urinary tract infections (UTIs), surgical site infections (SSIs) and eye, ear nose and throat infections (EENTs)

### Implications

The study has significant implications for global healthcare, suggesting hospitals adopt enhanced cleaning protocols, especially for shared medical equipment. The intervention is simple, effective, and can be implemented across various settings. By incorporating additional dedicated cleaning time; using effective cleaning products like Clinell Universal Wipes and Clinell Sporidical (Peracetic Acid) Wipes; along with Clinell EvaluClean, Clinell Clean Indicator Notes and staff education, they can greatly reduce HAIs, lower healthcare costs, and improve patient outcomes. The CLEEN study establishes a new benchmark, showing that even modest cleaning improvements can significantly enhance patient care quality.

Distributed by

**ALGEO S**

A. Algeo Ltd  
Sheridan House  
Bridge Industrial Estate  
Speke Hall Road  
Liverpool  
L24 9HB, UK

+44 (0)151 448 1228  
+44 (0)151 448 1008  
algeos.com  
info@algeos.com

JBN240287

**gama**  
healthcare

Manufactured by GAMA Healthcare Ltd., The Maylands Building, Maylands Avenue, Hemel Hempstead, Hertfordshire, HP2 7TG, UK.