

# Effectiveness of an Edge AI-based Augmented Reality System for Hand Hygiene Training: a Multi-centre, Mixed-methods Cluster Randomised Controlled Trial

NCT07280026

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<b>Status</b>	RECRUITING
<b>Phase</b>	Not Applicable
<b>Sponsor</b>	The Hong Kong Polytechnic University
<b>Enrollment</b>	1,000 participants

## Key Eligibility Criteria

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### Inclusion (5)

- Undergraduate students enrolled in health-related disciplines (e.g., nursing, medicine, rehabilitation sciences, medical laboratory science) at participating universities
- Healthcare professionals or supporting staff working in participating hospitals
- Able to provide informed consent
- Willing to participate in both pre- and post-training assessments during the same study visit
- Aged 18 years or above

### Exclusion (4)

- Known allergy or skin irritation to fluorescent powder or hand hygiene products
- Current visible skin conditions (e.g., dermatitis, eczema, open wounds) on hands that may interfere with handwashing assessment
- Unable to understand or follow the training instructions
- Refusal or inability to provide written informed consent

## Locations (3 total)

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Tongji Hospital, Wuhan, Hubei, China  
The Hong Kong Polytechnic University, Hung Hom, Hong Kong, Hong Kong  
The Chinese University of Hong Kong, Shatin, Hong Kong, Hong Kong