



Interclean  
**Healthcare  
Cleaning  
Forum**

# Clean Hospitals: bringing HEH into the spotlights

**Prof. Didier Pittet, Switzerland**

Professor of medicine (hon), Faculty of Medicine, University of  
Geneva

*Chair: Clean Hospitals*



# Clean Hospitals: Bringing healthcare environmental hygiene into the spotlight

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**Professor Didier Pittet, MD, MS, CBE**

Professor of Medicine (hon)

Faculty of Medicine, University of Geneva

Chair, Clean Hospitals

Former-Director of Infection Control Program

& WHO Collaborating Centre on IPC/AMR,

The Geneva University Hospitals



**UNIVERSITÉ  
DE GENÈVE**



# The burden of healthcare-associated infections (HAIs)

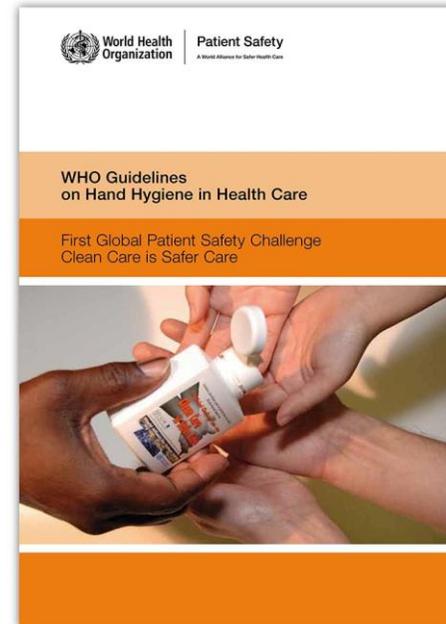
- A silent pandemic
- 500,000 patients each day
- 16 million deaths every year
- Most of these infections are caused by contaminated hands and the environment, though infections can be endogenous as well



“The patient in the next bed is highly infectious. Thank God for these curtains.”

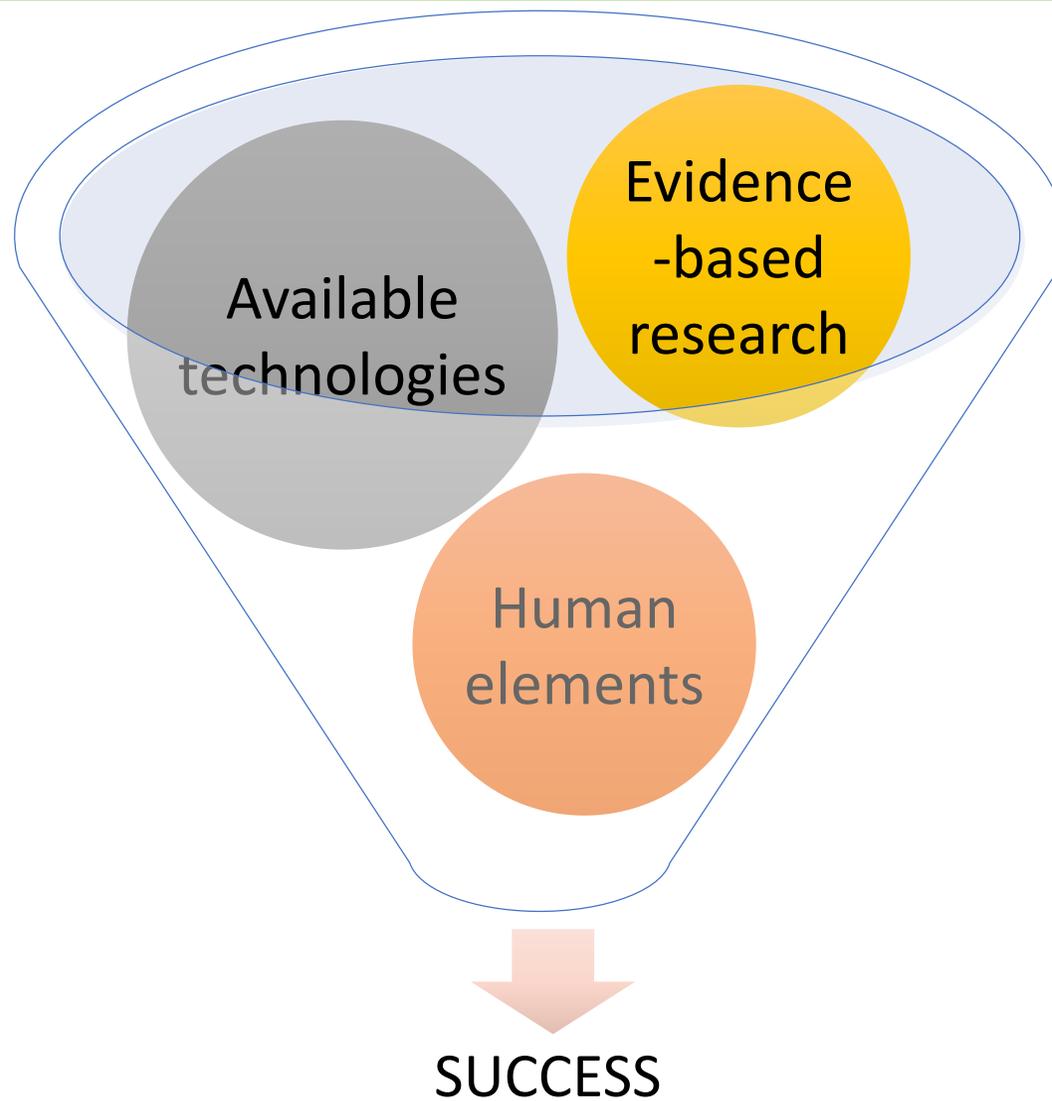
# We need a revolution in infection prevention and control (IPC)

- Hand Hygiene is a global initiative, saved millions of lives



- We need to do the same for the environment

# Why is environmental hygiene in healthcare so complex?



# What is the Clean Hospitals Association?

A coalition of international stakeholders who work explicitly to promote and support healthcare environmental hygiene

- research
- publications
- participation in conferences and events
- education and training
- specialized working groups



# Our mission

By breaking the silos between the public and private spheres we hope to be able to help:

- Improve patient safety
- Increase access to safe care
- Encourage environmental sustainability
- Reduce antimicrobial resistance
- Encourage best practices
- Support innovation



# What does Clean Hospitals do?

We bring together academia and industry to:

- Champion the science, best practices and evidence-based solutions
- Drive and support academic research
- Create a network where project members can exchange and collaborate
- Create a platform from which to bring healthcare environmental hygiene into the spotlight



# Clean Hospitals main internal activities

Academic  
research

Stakeholder  
meetings

Live  
Workshops

Clean  
Hospitals  
Events

Journal  
Clubs

Think Tanks  
&  
Scientific  
Sessions

Working  
Groups



# Antimicrobial Resistance & Infection Control

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Review | [Open Access](#) | [Published: 19 February 2022](#)

## Impact of environmental hygiene interventions on healthcare-associated infections and patient colonization: a systematic review

[Alexandra Peters](#), [Marie N. Schmid](#), [Pierre Parneix](#), [Dan Lebowitz](#), [Marlieke de Kraker](#), [Julien Sauser](#), [Walter Zingg](#) & [Didier Pittet](#) 

*Antimicrobial Resistance & Infection Control* **11**, Article number: 38 (2022) | [Cite this article](#)

**4397** Accesses | **3** Citations | **28** Altmetric | [Metrics](#)





ELSEVIER

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

# American Journal of Infection Control

journal homepage: [www.ajicjournal.org](http://www.ajicjournal.org)

AJIC  
American Journal of  
Infection Control

## Major Article

# Results of an international pilot survey on health care environmental hygiene at the facility level

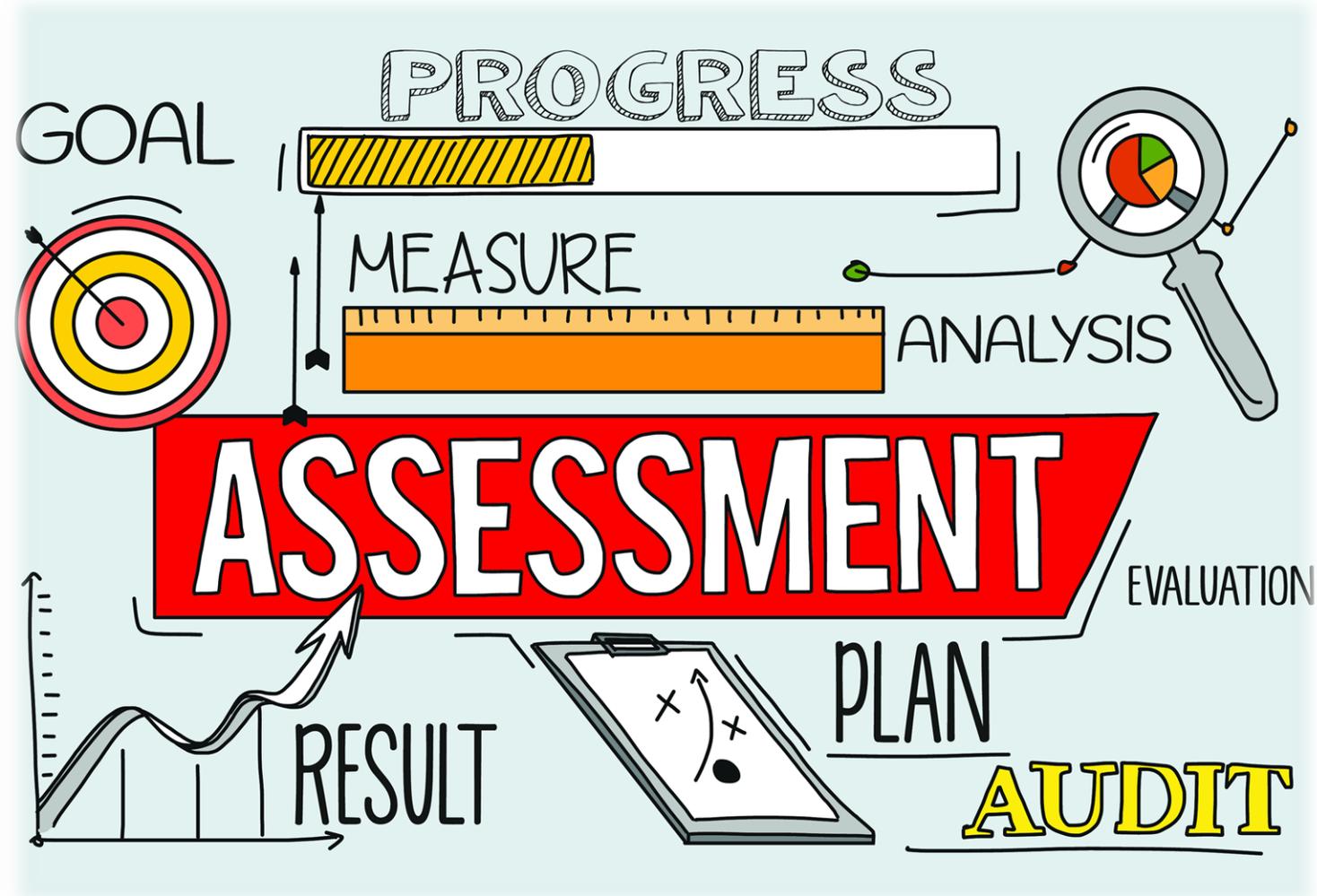
Alexandra Peters MA<sup>a,b</sup>, Marie N. Schmid BS<sup>b</sup>, Marlieke E.A. de Kraker PhD<sup>a</sup>, Pierre Parneix MD<sup>c</sup>,  
Didier Pittet MD, MS, CBE<sup>a,\*</sup>

<sup>a</sup> *Infection Control Programme and WHO Collaborating Center on Patient Safety, University of Geneva Hospitals and Faculty of Medicine, Geneva, Switzerland*

<sup>b</sup> *University of Geneva, Geneva, Switzerland*

<sup>c</sup> *Nouvelle Aquitaine Health Care-Associated Infection Control Centre, Bordeaux University Hospital, Bordeaux, France*

# Development of the Healthcare Environmental Hygiene Self- Assessment Framework (HEHSAF)



# The HEHSAF

- A secure online tool for healthcare facilities (HCFs) to analyze and assess their healthcare environmental hygiene (HEH) programs
- Can be used as a benchmark for improvement over time
- The first time a global snapshot for HEH is being attempted



## Healthcare Environmental Hygiene Self-Assessment Framework

### INSTRUCTIONS

Please answer the following questions to the best of your abilities. If there are questions that you do not know the answer to, we encourage you to either ask colleagues or share the login information from the survey with them, so that the survey can be completed as accurately as possible. The survey is divided into eight sections, each of which contains 4-22 questions. You can save your work and return to it by clicking "save and return later" at the bottom of the survey.

### IMPORTANT INFORMATION

All participant respondent data will be kept confidential. All data will be anonymized and aggregated upon publication. Healthcare environmental hygiene (HEH) includes everything in the healthcare facility environment including surface cleaning and disinfection, air and water control, waste management, instrument sterilization and reprocessing, and laundry. Thank you for contributing to improved patient safety and better HEH around the world! - Dr. A. Peters, Dr. P. Parneix, and Prof. D. Pittet on the behalf of Clean Hospitals®

### DEFINITIONS

**Automated disinfection:** Disinfection performed by machines such as those dispensing UVC light or HPV.  
**Bucketless mopping system:** Flat mop heads or cloths for mop heads that are pre-moistened and changed between every room.  
**Cleaning:** The removal of dust, soil and contaminants from environmental surfaces.  
**Cleaning products:** Liquids, powders, sprays or granules that remove organic material (e.g. dirt or body fluids) from surfaces and suspend grease or oil. **Examples:** liquid soap, enzymatic cleaners and detergents  
**Cold Sterilization:** A method of high-level disinfection that requires the reusable thermo-sensitive items to be immersed in officially approved liquid chemicals. **Examples:** glutaraldehyde, peracetic acid and hydrogen peroxide-based solutions

# Recent conferences and teleclasses

- CLEAN Expert meeting with the London School of Hygiene and Tropical Medicine, Jun
- Infection Control Africa Network (ICAN) Conference Aug
- Clean Hospitals Webber Teleclass Oct
- Infection Control Day at Ghent University Hospital Dec
- ICPIC Clean Hospitals Symposium Sept
- IPS in Liverpool Oct
- Clean Hospitals Day in China Oct
- Japan tour of Hand and Environmental Hygiene Feb
- IPC Conference Varaždin, Croatia Feb
- iClean Australia (The Interclean Group) March
- BICS Conference Brussels, Belgium March
- National nurse's IPC conference in Madrid, Spain April
- 5<sup>th</sup> of May Webber Teleclass for hand hygiene

# Clean Hospitals Day: 20<sup>th</sup> of October

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- 2020 was specifically focused on COVID-19
- 2021 focused on cleaners
- 2022 included a 1-Day conference in Geneva
- 2023 Launch of the HEHSAF
- Annual Teleclass (*>20,000 attendees during the live session and 80,000 on-demand attendees*)
- Webinars
- Company involvement
- Social media

# HEHSAF International Launch CH Day



#EnvironmentalHygiene #CleanHospitalsDay #RateYourHEH



#EnvironmentalHygiene #CleanHospitalsDay #RateYourHEH



#EnvironmentalHygiene #CleanHospitalsDay #RateYourHEH

GOOD  
Healthcare  
Environmental  
Hygiene  
SAVES LIVES!

Make your hospital safer  
with the HEHSAF

Don't Wait, Rate your HEH



GOOD  
Healthcare  
Environmental  
Hygiene  
SAVES LIVES!

Don't Wait, Rate your HEH



GOOD  
Healthcare  
Environmental  
Hygiene  
SAVES LIVES!

A contaminated environment  
can transmit infections

Caution! Dangerous when dirty!



Fill out the  
HEHSAF today

- 1 Scan  
Scan the QR code
- 2 Rate  
Your healthcare facility
- 3 Improve  
Get suggestions to  
improve the cleanliness

Scan the code  
to get started



Don't Wait, Rate your HEH!  
Fill out the HEHSAF today

Scan the code  
to get started



# 18-20 October 2023, Chongqing



**INTERCLEAN**  
CHINA



# IPS Photobooth



# Journal Announcements

THE LANCET  
Infectious Diseases

CORRESPONDENCE | VOLUME 23, ISSUE 10, E390, OCTOBER 2023

[Download Full Issue](#)

## Clean Hospitals Day 2023 and the launch of an environmental-hygiene self-assessment tool

[Alexandra Peters](#) • [Pierre Parneix](#) • [Didier Pittet](#)  • on behalf of Clean Hospitals

Published: August 31, 2023 • DOI: [https://doi.org/10.1016/S1473-3099\(23\)00545-5](https://doi.org/10.1016/S1473-3099(23)00545-5)

[Supplementary Material](#)

[References](#)

[Article info](#)

Health-care environmental hygiene is increasingly being recognised as crucial in the prevention and control of infection. Similar to its predecessor, World Hand Hygiene Day, the objective of Clean Hospitals Day—celebrated every year on Oct 20—is to increase awareness of and engagement in health-care environmental hygiene among health-care facilities around the world. A newly published

# JHI/IPIP Clean Hospitals Collection

## Journal of Hospital Infection

Supports *open access*

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## Clean Hospitals Day 2023

Edited by

- Gemma Winzor, Birmingham Heartlands Hospital, Birmingham, UK
- Nikunj Mahida, Nottingham University Hospital, Nottingham, UK

Last update 18 October 2023

20 October 2023 marks Clean Hospitals Day and the global launch of the Environmental Hygiene Self-Assessment Framework (HEHSF).

This is a validated tool designed to identify areas within healthcare improvement in environmental hygiene and to track improvement



## Infection Prevention in Practice

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Last update 18 October 2023

20 October 2023 marks Clean Hospitals Day and the global launch of the Healthcare Environmental Hygiene Self-Assessment Framework (HEHSF).

# ICHE Podcast



Podcast Episode

## Episode 42, Volume 44, Issue 10

The ICHE Podcast

Oct 19 · 32 min 13 sec



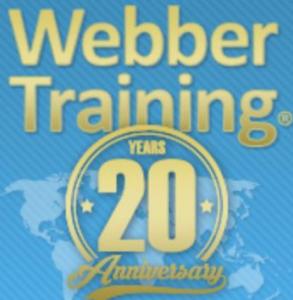
### Episode Description

On this episode of The ICHE Podcast, Editor-in-Chief, David Calfee, MD, MS is joined by guests Didier Pittet, MD, MS, CBE, Alexandra Peters, PhD, and Philip C. Carling, MD. Today's topic, hospital cleaning and disinfection, is especially relevant as we celebrate Clean Hospitals Day on October 20th! Listen as our guests di

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# Webber Teleclass



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YEARS  
**20**  
Anniversary

**TELECLASS EDUCATION**  
FOR INFECTION PREVENTION AND CONTROL

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Teleclass	<i>(FREE Teleclass - Special Lecture for Clean Hospitals Day)</i> <b>CLEAN HOSPITALS DAY 2023 MARKS THE GLOBAL LAUNCH OF A SELF-ASSESSMENT TOOL</b>
Outline:	<b>Objectives:</b> <ul style="list-style-type: none"><li>- Discuss how the Five Elements in Healthcare Environmental Hygiene can be applied in any facility</li><li>- Discuss the work that has been accomplished in the last 12 months</li><li>- Forecast the efforts that have yet to take place and the impact that those efforts can have with regard to healthcare-associated infection.</li></ul>
Date	October 20, 2023
Live broadcast time	... 1:30pm-2:30pm in New York / Toronto ... 7:30pm in Geneva ... 4:30am (November 21) in Sydney ... 2:30pm in Buenos Aires

# Conferences and additional activities



# SF2H in Lille, France

- French society for Hospital Hygiene
- Clean Hospitals Booth



# Overview



**4198**

unique people with an interest in healthcare cleaning (25% of visitors)



**15%**  
from NL



**12%**  
from Germany



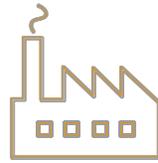
**33%**

distributors



**23%**

cleaning contractors



**14%**

manufacturers



**11%**

healthcare institutions  
(NL, Belgium, Germany)  
> 448 unique persons



**15**

presentations at the Healthcare Lab theater



**20**

demonstrations at the Healthcare Cleaning Lab-Demo area





# ICPIC2023

INTERNATIONAL CONFERENCE ON  
PREVENTION & INFECTION CONTROL

Geneva 

12-15 September 2023

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Abstracts submissions are open!

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# The Clean Hospitals Expert Panel



Ojan Assadian



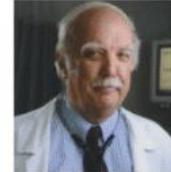
Mahmood Bhutta



John Boyce



David P. Calfee



Philip Carling



Alessandro Cassini



Vincent Cheng



Nizam Damani



Rose Gallagher



Giorgia Gon



Darla Goeres



Loreen Herwaldt-Abbott



Martin Kiernan



Axel Kramer



Jean Yves Maillard



Brett Mitchell



Daniela Pires



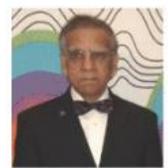
Tom Riley



Sara Romano Bertrand



William Ruttala



Sayed Sattar



Mark Sobsey



Sarah Tschudin Sutter



David Weber



Andreas Widmer



Jennie Wilson



Shuk Ching Wong

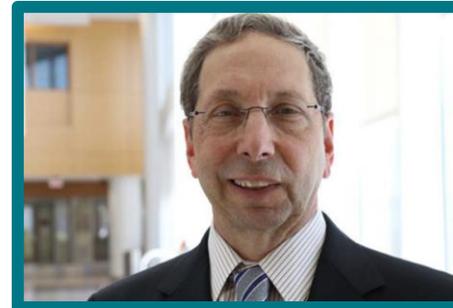


Marie-Céline Zanella



# Clean Hospitals Think Tanks 2023-2024

**Prof. Brett Mitchell**  
**Prof. David Weber**  
**Prof. Syed Sattar**  
**Dr. Bahram Zargar**  
**Prof. Tom Riley**



**Next Think Tank on June 17**  
**Dr. John Boyce / Prof. Didier Pittet**

# Microfiber studies

- Microfiber cloth use in healthcare is widespread, but there are gaps in the literature
- Currently working on two studies with University Hospital in Ghent, Belgium
- **Study 1:** Examining the efficacy of new vs. laundered microfiber currently in use in the wards
- **Study 2:** Examining HCW compliance with «one wipe, one surface, one direction» after training with nonwoven vs. microfiber cloths



# Clean Hospitals working groups

- HEH Lexicon group
- Office-based surgery
- High-level disinfection for ultrasound probes
- Floor cleaning and disinfection
- Clean Hospitals Day



# Clean Hospitals: Healthcare Environmental Hygiene and Patient Safety

## Guest Editors:

**Prof. Dr. Didier Pittet:** Professor of medicine (hon), Faculty of Medicine, University of Geneva, Switzerland; Chair, Clean Hospitals

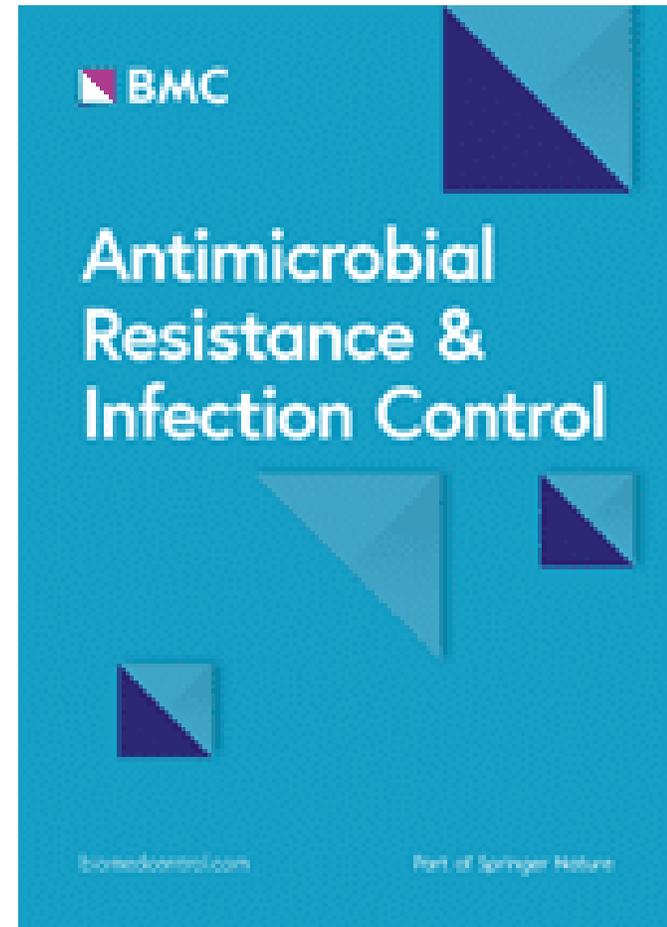
**Dr. Alexandra Peters:** Scientific Lead for Clean Hospitals; University of Geneva, Switzerland

**Submission Status:** Open | **Submission Deadline:** Ongoing



*Antimicrobial Resistance & Infection Control* is calling for submissions to our Collection on 'Clean Hospitals: Healthcare Environmental Hygiene and Patient Safety.'

Healthcare-associated infections are a struggle for every healthcare facility in the world and are responsible for killing more people each year than malaria, AIDS, and tuberculosis combined.



Submit to Collection

# 1<sup>st</sup> Clean Hospitals TTT Jan 2024 in Kuala Lumpur

Main Organizers:



Program Endorsed by:



Collaborators:



Supported by:



## CLEAN HOSPITALS

Healthcare Environmental Hygiene (HEH)

Train-the-Trainers Workshop



23<sup>rd</sup> – 24<sup>th</sup> Jan 2024



8:00 – 17:30 (MYT)



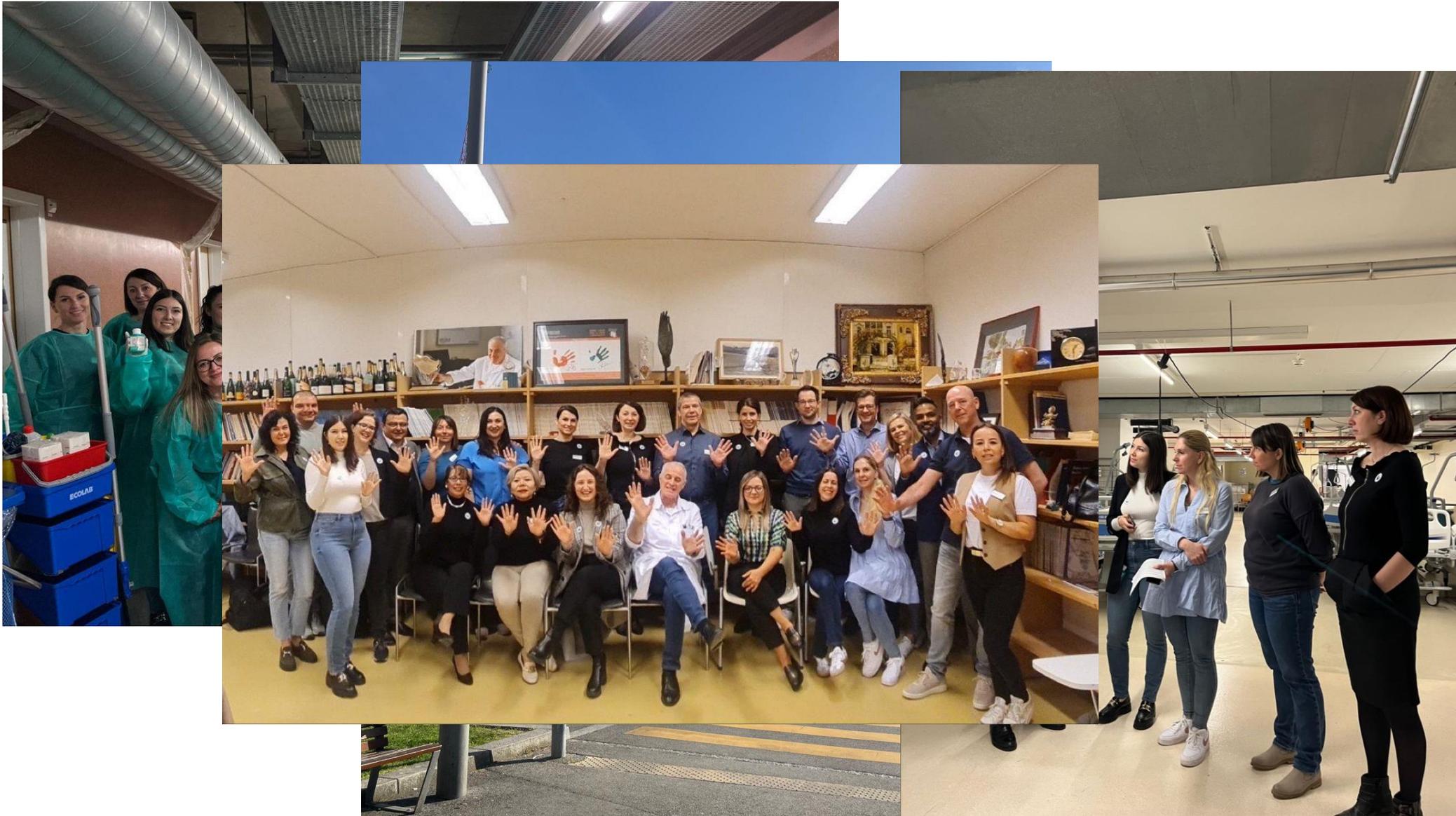
National Institutes of Health, Setia Alam, Malaysia

**CPD  
POINTS  
WILL BE  
AWARDED**

# 1<sup>st</sup> Clean Hospitals TTT – Kuala Lumpur



# 2<sup>nd</sup> Clean Hospitals TTT: Geneva



# Steps to take for the future: How can we do better?

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- Growing the Clean Hospitals initiative
- Working on addressing gaps in the field
- Translate and diffuse the Healthcare Environmental Hygiene Self-Assessment Framework (HEHSAF)
- Working to include relevant stakeholders globally
- Keep the momentum post-pandemic

# Clean Hospitals



sharing our passion

