



## Sameeksha\* – Infection Prevention and Control (IPC)

### Key highlights

- Genomic analysis of AMR to support IPC in healthcare facilities
- Declaration on infection prevention and management in global surgery
- Updated guidelines on IPC in the context of COVID-19
- Interactive game to promote hand hygiene compliance
- WHO standardized checklist to assess sanitation facilities

### Publications from scientific journals

#### Genomics for antimicrobial resistance surveillance to support infection prevention and control in health-care facilities

- Review the opportunities and barriers for conducting genomic analysis of healthcare associated infections.
- Recommends viable and cost-effective consideration for genomic AMR surveillance, strengthening training competencies (particularly in bioinformatics), and building capacity at local, national, and regional levels.

*Lancet* | Research article | 14 November 2023 | [Online link](#)

#### Declaration on infection prevention and management in global surgery

- Seven surgical societies develop a global declaration on the roles of surgeons in preventing surgical site infections (SSIs).
- Outlines fundamental principles for reducing infection along the surgical pathway.

*World Journal of Emergency Surgery* | Comment | 6 December 2023 | [Online link](#)

#### Surgical site infections in elective and emergency abdominal surgeries: a prospective observational study about incidence, risk factors, pathogens, and antibiotic sensitivity at a government tertiary care teaching hospital in India

- Examines incidence of SSIs incidence, risk factors, pathogens, and antibiotic sensitivity in emergency and elective or planned abdominal surgeries.
- Shows incidence of SSIs is higher among emergency (26%) compared to planned surgeries (8%); also highlights that addressing key co-morbidities (diabetes, hypertension) and implementation of IPC and antibiotic protocols contribute in reducing SSIs.

*Cureus* | Research article | 31 October 2023 | [Online link](#)

### **Direct gloving vs hand hygiene before donning gloves in adherence to hospital infection control practices: a cluster randomized clinical trial**

- Evaluate the effectiveness of a direct-gloving policy on adherence to infection prevention practices in a hospital setting.
- Recommends a direct-gloving strategy without prior hand hygiene to improve adherence to IPC practices in healthcare facilities.

*JAMA Open* | Research article | 26 October 2023 | [Online link](#)

### **Genotyping of *Acinetobacter baumannii* isolates from a tertiary care hospital in Cochin, South India**

- Underlines prevalence of carbapenem resistance through molecular analysis of *A. baumannii* with biofilm formation ability.
- Provides useful insights on local epidemiology of *A. baumannii* for developing infection control strategies.

*Access Microbiology* | Research article | 28 November 2023 | [Online link](#)

### **Effectiveness of dry hydrogen peroxide in reducing air and surface bioburden in a multicenter clinical setting**

- Investigates the potential of dry hydrogen peroxide (DHP), a technology that uses ambient humidity and oxygen to produce a gas-like broad-spectrum disinfectant.
- Provide evidence on DHP effect on surface and airborne microbial (bacterial and fungal) load in occupied patient rooms with standard ventilation.

*Infection Control & Hospital Epidemiology* | Research article | 29 November 2023 | [Online link](#)

### **Scabies outbreak management in refugee/migrant camps in Europe 2014–2017: a retrospective qualitative interview study of healthcare staff experiences and perspectives**

- Investigates the perceived barriers to scabies control in refugee camps based on the views of healthcare workers.
- Calls for clear protocols for scabies in refugee camps including clinical guidelines and supplies (especially ivermectin).

*BMJ Open* | Research article | 8 November 2023 | [Online link](#)

### **The role of the hospital bed in hospital-onset *Clostridioides difficile*: a retrospective study with mediation analysis**

- Highlights increased risk of *C. difficile* infection in patients occupying a hospital bed (or room) previously occupied by an infected patient.
- Calls for newer technologies or robust disinfectant approaches that can effectively eradicate *C. difficile* spores from hospital beds.

*Infection Control & Hospital Epidemiology* | Research article | 13 December 2023 | [Online link](#)

## Guidelines

### **UN-Water Global Analysis and Assessment of Sanitation and drinking water (GLAAS) strategy: 2023-2030**

- Outlines WHO's approach for monitoring WASH systems, including determining set of key WASH systems indicators, and improving data use.
- Based on the data from – GLAAS portal, government WASH data and SDG 6 monitoring data.

*WHO* | Report | 23 November 2023 | [Online link](#)

### **Influenza health worker vaccination programmes: platforms for pandemic preparedness**

- Series of case studies of country experiences in facilitating vaccination among HCWs.
- Targets governments and international organizations supporting national vaccination programs for HCWs.

*WHO* | Technical document | 21 November 2023 | [Online link](#)

### **Infection prevention and control in the context of COVID-19: a guideline**

- Updated guideline considers a shift toward the integration of IPC activities into routine systems and practices.
- Emphasizes standard and transmission-based precautions in health-care settings, and the adoption of public health practices for community settings.

*WHO* | Guidelines | 21 December 2023 | [Online link](#)

## Training / IEC resources

### **My 5 moments for hand hygiene**

- This course uses an interactive game format to promote compliance with hand hygiene by avoiding microbial cross-transmission and healthcare acquired infections of alien patients.
- Targets clinical HCWs and medical students.

*WHO Academy* | Course | November 2023 | [Online link](#)

### **WHO Sanitary inspections for sanitary systems with corrective actions and pass/fail assessment**

- Standardized checklist to assess sanitation facilities, including risks related to damage, security, contamination and cleanliness of toilets.

*WHO* | Technical document | 17 November 2023 | [Online link](#)

### **EPI-WIN digest 8 – preventing epidemics and pandemics in communities, through the One Health approach**

- Provides an overview of the role of communities in preventing epidemics, adopting a One Health approach.
- Includes illustrative examples from government agencies, civil society, and academia.

*WHO* | Technical document | 1 November 2023 | [Online link](#)

## Quotable quote

*Six core hand hygiene domains identified – system change; training & education; evaluation & feedback; reminders & communication; institutional safety climate; impact of hand hygiene improvement on HAIs & AMR*

– WHO research agenda for hand hygiene in health care  
2023–2030

\* *Sameeksha* is a Hindi word, meaning review. This compilation of recent IPC resources includes a brief summary of relevant publications from scientific journals, guidelines, and training/IEC resources. The intended target audience for this includes clinical and public health professionals interested in IPC at both public and private sector in India. Kindly note: inclusion of publications/resources in this review does not imply an endorsement by WHO.