



IPC Sameeksha*

Highlights

- Need for precise terminology in field of disinfection
- IPC research priorities for Ebola and Marburg disease outbreaks
- Modelling cholera disease dynamics with delay differential equation
- Compendium of WHO and other UN guidance in health and environment
- Ebola and Marburg disease outbreaks: IPC research priorities in health care settings
- WHO global research priorities for sexually transmitted infections
- Infection prevention and control workbook for eLearning modules

Publications from scientific journals

Resistance or tolerance? Highlighting the need for precise terminology in the field of disinfection

- Argues that disinfectant research requires accurate definitions of terms (e.g. tolerance, resistance, adaptation) not simply transferred from antibiotic research.
- Compares disinfectants and antibiotics in clinical contexts and describes modes of actions of disinfectants.

Journal of Hospital Infection | Review | 21 May 2024 | [Online link](#)

Cholera disease dynamics with vaccination control using delay differential equation

- Mathematical model introduces two delays (i) latent period of disease and (ii) adding disinfectant to water, while considering the needs of vulnerable populations.
- Underscores treating aquatic environment for cholera eradication, especially among susceptible populations.

Scientific Reports | Article | 29 July 2024 | [Online link](#)

Comparing automated surveillance systems for detection of pathogen-related clusters in healthcare settings

- Retrospective cohort study compares 3 methods of cluster detection, WHONET SaTScan, CLuster AleRt System (CLAR) and a percentile-based system, using case studies.
- Methods were comparable for endemic pathogens, but WHONET and CLAR had fewer results for sporadic pathogens.

Antimicrobial Resistance & Infection Control | Research | 26 June 2024 | [Online link](#)

WHO global research priorities for sexually transmitted infections

- Provides details of methodology and results of the WHO's research prioritization process for sexually transmitted infections (STIs).
- Advocates researchers focus on WHO's agenda to advance progress on STIs globally.

Lancet Global Health | Health policy | 20 July 2024 | [Online link](#)

Medical device-associated infections caused by biofilm-forming microbial pathogens and controlling strategies

- Describes how biofilms form on medical devices and contribute to healthcare acquired infections (HAIs).
- Reviews smart antiadhesive coatings for medical devices that can help manage HAIs.

Antibiotics | Review | 4 July 2024 | [Online link](#)

Innovative teaching in infection prevention and control and infectious diseases education: testing and investigation of student perceptions

- Evaluates medical students views on 3 methods of teaching for IPC, games-based learning, peer teaching and misinformation detection.
- Methods were generally viewed positively by students, although the value of peer teaching depends on the knowledge and skills of peers.

Infection | Research | 9 July 2024 | [Online link](#)

A historical study on the scientific attribution of biosafety risk assessment in real cases of laboratory-acquired infections

- Reviews laboratory-acquired infections (LAIs) which arose in the context of biological experiments.
- Presents case studies of LAIs and the evolution of biosafety standards and assessments.

Laboratories | Review | 30 June 2024 | [Online link](#)

Knowledge and awareness about biomedical waste segregation and disposal among medical and paramedical students at a tertiary care hospital in Chennai

- Cross-sectional study finds gaps in knowledge related to biomedical waste segregation and disposal.
- Calls for comprehensive biomedical waste management education into medical curriculum that includes both technical aspects and broader health implications.

Indian Journal of Community and Family Medicine | Original article | 26 June 2024 | [Online link](#)

Measuring the efficacy of standard and novel disinfection methods on frequently used physical therapy equipment: a 2-phase prospective randomized controlled trial

- Finds high bioburden on physical therapy equipment following standardized disinfectant practices, likely due to material and shape of equipment.
- Disinfectant cabinet using Ultraviolet C and 6% nebulized hydrogen led to lower bioburden.

Infection Control & Hospital Epidemiology | Original article | 26 July 2024 | [Online link](#)

Guidelines

Ebola and Marburg disease outbreaks: infection prevention and control research priorities in health care settings

- Addresses research questions related to IPC in the context of Ebola and Marburg disease outbreaks.
- Identifies short- to medium-term priority research questions for IPC in health care settings based on the gaps identified during the guideline development process.

WHO | Publication | 27 August 2024 | [Online link](#)

Compendium of WHO and other UN guidance in health and environment, 2024 update

- Database of relevant guidelines that includes new updates on One Health, waste management and healthcare facilities.
- Aims to support policymakers and key stakeholders in countries.

WHO | Guidance | 3 July 2024 | [Online link](#)

Global Infection Prevention and Control Network (GIPCN) Infection Prevention and Control in Public Health Emergencies Working Group (IPC PHE WG) progress report 2022 – 2024

- Presents main activities and workplan of network.
- Identifies ability to convene experts quickly during an emergency is a key challenge.

WHO | Meeting report | 15 July 2024 | [Online link](#)

Recommended package of enabling and health interventions for HIV, viral hepatitis and STI prevention, diagnosis, treatment and care for trans and gender diverse people

- Identifies package of interventions specific for trans and gender diverse people who are particularly vulnerable to HIV and STIs.
- Recommends 3 categories of interventions (i) enabling interventions, (ii) health interventions that directly impacts HIV and STIs and (iii) broader health interventions.

WHO | Policy brief | 1 July 2024 | [Online link](#)

WHO global research priorities for sexually transmitted infections

- Outlines 5 phases of STI research prioritisation process for diagnosing, preventing, managing and epidemiology of STIs.
- Summarizes the research priorities and provides a call to action for focus, investment and innovation to reduce the global toll of STIs.
- Prioritizes 40 research areas to inform STI policies and programmes by 2030 across four key domains: diagnosis, prevention, management and epidemiology.

WHO | Brochure and flyer | 21 July 2024 | [Online link](#)

Training / IEC resources

Infection prevention and control workbook 2024

- Workbook accompanies eLearning modules covering advanced IPC education.
- Contains 10 helpful modules, including microbiology of pathogens, preventing environmental exposures and reprocessing reusable medical devices.

Australian Commission on Safety and Quality in Health Care | Workbook | June 2024 | [Online link](#)

Quotable quote

The WHO global STI research prioritization process identified 40 important STI research needs to address existing gaps in STI prevention, care and control for the greatest public health impact.

– WHO global research priorities for sexually transmitted infections, 2024

* *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, along with a link to the online resource. The primary target audience includes clinical and public health IPC professionals from both public and private sector in India. Kindly note: inclusion of publications/resources in this review does not imply an endorsement by WHO.