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इसलमेकशा

INFECTION PREVENTION AND CONTROL (IPC) | Volume 18 | April 2025

IPC Sameeksha*

Highlights

- Risk factors for health care-associated bloodstream infections in NICUs
- Spreading of hand hygiene change package across an acute hospital
- Prevalence of fungi and their antifungal and disinfectant resistance in hospital environments
- Review of HAIs: the role of microbial and environmental factors in infection control
- Water and sanitation technologies for health-care facilities
- IPC pre-service education and training curriculum

Publications from scientific journals

Risk factors for health care-associated bloodstream infections in NICUs

- Prospective cohort study on epidemiology of neonatal healthcare-associated BSIs in 3 neonatal intensive care units in Pune (India) finds that use of indwelling devices and prior antibiotic exposure are associated with increased risk of health care-associated BSIs.
- Recommends BSI prevention through improved compliance with IPC practices, with a focus on mitigating the risks associated the devices.

JAMA | Original Investigation | 25 March 2025 | [Online link](#)

A scoping review of published reports of the infection prevention and control assessment framework: a comparison to the findings of the global report on infection prevention and control

- Reviews the use of IPCAF tool across different settings and compares it with WHO's Global Report on IPC.
- Emphasizes need for tailored interventions to enhance IPC practices, particularly in resource-limited settings.

International Journal of Infection Control | Review Article | 27 March 2025 | [Online link](#)

Spreading of hand hygiene change package across an acute hospital

- Demonstrates implementation and outcome of hand hygiene compliance strategies in a tertiary care hospital.
- Highlights significant improvement recorded in the hospital-wide hand hygiene compliance rate during pilot, scaleup and sustenance phase by 66%, 73% and 82% respectively.

BMJ | Research Article | 5 April 2025 | [Online link](#)

Religious influences on infection prevention and control practices in healthcare settings: a scoping review

- Reviews religious and cultural factors that may act as barriers and enablers of IPC interventions in healthcare settings.
- Highlights the complex interplay between religion and IPC practices and recommends need for culturally sensitive IPC strategies.

Infection, Disease & Health | Review Article | 12 March 2025 | [Online link](#)

Prevalence of fungi and their antifungal and disinfectant resistance in hospital environments: insights into combating nosocomial mycoses

- Explores the potential role of the hospital environment in the spread of invasive fungal infections (IFDs).
- Hospital environment, particularly exhaust vents, may act as a significant reservoir for causative agents of invasive fungal diseases, highlighting the importance of environmental surveillance to prevent IFDs.

Antimicrobial Resistance and Infection Control | Research article | 23 April 2025 | [Online link](#)

Adverse effects of the long-term use of an N95 respirator in healthcare workers

- Analyses the effect of the use of surgical and N95 respirators for long hours on the performance of healthcare workers.
- Finds that up to 4 hours continuous use of N95 respirator did not affect work efficiency, although longer use may cause discomfort and should be avoided.

Juntendo Medical Journal | Original Article | 18 April 2025 | [Online link](#)

Educational needs for infection prevention and control during outbreaks: A qualitative study with health workers in Sri Lanka

- Qualitative descriptive study captures perceptions of HCWs towards IPC guidelines and training needs with the aim to create role specific IPC guidelines.
- Recommends a tailored approach to IPC education based on identified overall and key specific needs, such as training of support staff.

Infection, Disease & Health | Research | 29 March 2025 | [Online link](#)

Associations between hospital structure, infection control and incidence of hospital-acquired viral respiratory infections: a 10-year surveillance study

- Retrospective cohort study in a French teaching hospital found high incidence of community acquired VRIs, as well as high percentage of double occupancy rooms independently increased the risk of hospital-acquired VRIs
- Also recommends use of hospital laboratory data as a tool to implement interventions i.e., universal masking, systematic screening at admission, etc. during the winter epidemic seasons.

Antimicrobial Resistance & Infection Control | Research | 11 April 2025 | [Online link](#)

Healthcare-associated infections: the role of microbial and environmental factors in infection control – a narrative review

- Reviews the prevalence, risk factors, advanced diagnostic approaches, including data-driven methodologies like artificial intelligence and machine learning approaches in combating HAIs.
- Highlights that combination of molecular diagnostic techniques, microbiome-based solutions, and artificial intelligence-powered systems has significantly improved management of HAIs.

Infectious Diseases & Therapy | Review | 10 April 2025 | [Online link](#)

Economic evaluation of enhanced cleaning and disinfection of shared medical equipment

- Investigates the cost efficacy of environmental cleaning and disinfection of shared medical equipment.
- Findings suggest that enhanced cleaning and disinfection of shared medical equipment could save money for hospitals while improving patient safety by preventing HAIs.

JAMA | Original Investigation | 11 April 2025 | [Online link](#)

Deployment of real-time particle detection monitoring system in operating theatres for airborne contamination assessments

- Evaluates monitoring of airborne contamination in order to improve infection control in surgical procedures involving the insertion of orthopaedic implants.
- Real-time monitoring of air particles during implant surgeries can help identify deviations in airborne particle levels thereby enhancing the surgical environment and reducing the risk of surgical site infections.

Bone & Joint | Research Article | 24 April 2025 | [Online link](#)

Guidelines

Water and sanitation technologies for health-care facilities: a literature review of current and emerging water and sanitation technologies for health-care facilities

- Describes a wide range of water supply treatment and wastewater and faecal sludge management technologies for healthcare facilities, including existing and emerging technologies.
- A reference document for stakeholders and professionals to strengthen their understanding of water and sanitation technologies for healthcare facilities.

WHO | Guidance (normative) | 8 May 2025 | [Online link](#)

Steps to achieve universal access to safely managed sanitation

- Provides stepwise guidance to support country-level implementation of sanitation initiatives aimed at promoting access to climate-resilient safely managed sanitation services.

WHO and UNICEF | Technical Document | 5 May 2025 | [Online link](#)

Infection prevention and control pre-service education and training curriculum: foundational content for all health and care workers

- Outlines the IPC curriculum for pre-service students in health programmes with essential knowledge, skills and behavioural competencies.
- It may be used to develop learning resources and oversee trainings of pre-service health science students, such as nursing, medicine, midwifery, dentistry, public health and allied healthcare professionals.

WHO | Handbook | 4 May 2025 | [Online link](#)

Strengthening hand hygiene practices in community settings and health-care facilities in the context of mpox

- A call to action for countries to prioritize hand hygiene across communities and healthcare facilities, to protect public health and break the chain of mpox transmission.

WHO | Advocacy brief | 1 May 2025 | [Online link](#)

Compendium of best practices and case studies in quality of care, patient safety, infection prevention and control in lower- and middle-income countries

- Compendium of best practices and case studies providing benchmarks to promote continuous improvement and innovation, disseminate knowledge, facilitate learning, and drive improvement.

WHO | Technical document | 21 March 2025 | [Online link](#)

Infection prevention and control and water, sanitation and hygiene in health facilities during Ebola or Marburg disease outbreaks

- IPC and WASH rapid assessment tool helps to assess health facilities during Ebola disease or Marburg disease outbreaks.
- It describes parameters, data collection and follow up action based on the assessment.

WHO | Rapid Assessment Tool & User Guide | 19 March 2025 | [Online link](#)

Infection prevention and control and water sanitation and hygiene in health facilities during mpox disease outbreaks: rapid assessment tool, user guide

- IPC and WASH rapid assessment tool helps assess health facilities within mpox-affected areas.

WHO | Publication | 14 April 2025 | [Online link](#)

Protocol for the surveillance of surgical site infections and prevention indicators in European hospitals

- Reference guide on standardization of definitions, data collection and reporting procedures for hospitals on surveillance of surgical site infections.

ECDC | Protocol | 25 March 2025 | [Online link](#)

Protocol for the surveillance of healthcare-associated infections and prevention indicators in European intensive care units

- Protocols for ICUs participating in surveillance of healthcare-associated infections (HAIs).

ECDC | Protocol | 18 March 2025 | [Online link](#)

Training / IEC resources

General instructions for surface cleaning and disinfecting in patient care areas

- Information sheet with key steps for effective surface cleaning and disinfection in healthcare settings, ensuring a safe environment for patients and staff.

WHO | Publication | 6 March 2025 | [Online link](#)

WHO Academy Charter for the meaningful engagement of patients and communities

- The Charter defines engagement of patients and communities to deliver patient and community-centred learning programmes, build patient and community-centred competencies.

WHO | Standards | 28 April 2025 | [Online link](#)

Ventilation in healthcare settings factsheet

- Outlines basics of good ventilation in healthcare settings.

CDC | Factsheet | 26 March 2025 | [Online link](#)

Respiratory viruses factsheet

- Summarize actions to be taken by HCWs to stop the spread of respiratory viruses

CDC | Factsheet | 30 January 2025 | [Online link](#)

Quotable quote

There is strong evidence that a large proportion of infections could be prevented with IPC measures and basic WASH services, with a high return on investment.

– Dr Tedros Adhanom Ghebreyesus, WHO-DG
(Global report on infection prevention and control, 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.