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## Preparing for JCI Accreditation - Role of Infection Control

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## IOM REPORT: "TO ERR IS HUMAN"

- Deaths:
  - Medical Errors (98,000) > Vehicle Accidents(43,000), Breast Cancer (42,000), AIDS (16,000).
  - Medication Errors > Workplace Injuries
- Less deaths from adverse events occurring in nuclear reactors and the airline industry than Hospital Industry

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## Preparing for JCI Accreditation - Role of infection Control

- The Need for Patient Safety and Quality Improvement Process - Essence of Hospital Accreditation
- Hospital Accreditation Process and Actual Survey
- ROLE of Infection Control: Compliance to PCI Standards
  - Review of JCI IPC Standards and Required Documents
- Summary and Conclusion

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## The Washington Post

### Researchers: Medical errors now third leading cause of death in United States

By Ariana Eunjung Cha • To Your Health May 3

These common medical errors are major killers

Play Video 1:16



A new study by patient safety researchers shows common medical errors may be the third leading cause of death in the U.S. (Deirdra O'Regan/The Washington Post)

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## Define the Need


# PRIMUM NON NOCERE

### First Do No Harm

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## Publications on JCI Accredited Hospitals Better Outcomes



**IPC RELATED DATA and IMPROVEMENT**

**HAI Prevalence Survey:**  
 The **CDC Survey** described the burden of HAIs in U.S. hospitals and reported in 2011:

- 722,000 HAIs in U.S. acute care hospitals
- about 75,000 patients with HAIs died during their hospitalizations.
- More than half of all HAIs occurred outside of the intensive care unit.

**CDC's annual National and State Healthcare-Associated Infections Progress Report (HAI Progress Report, 2014 data, published 2016) :**

- **50 percent decrease** in central line-associated bloodstream infections (**CLABSI**) between 2008 and 2014
- **17 percent decrease** in surgical site infections (**SSI**) related to the 10 select procedures tracked in previous reports
- **8 percent decrease** in hospital-onset *Clostridium difficile* (**C. difficile**) infections between 2011 and 2014
- **13 percent decrease** in hospital-onset methicillin-resistant *Staphylococcus aureus* (**MRSA**) bacteremia (bloodstream infections) between 2011 and 2014

**Actual Accreditation**

5 day – survey

- Tracers
- Document Review
- Group Interview

**II. Accreditation Process**

**III. Compliance to PCI Standards**

**“BEGIN with the END in MIND.”**

Steven Covey

**JCI- IPC Related Chapters:**

1. Patient Safety Standards:
  - International Patient Safety Goals (IPSG):
    - 1 Standard on IPSG 5: Reduce the Risk Of HAI with 3 measurable elements
2. Management Standards:
  - Prevention and Control of Infections:
    - 11 Standards and 68 Measurable Elements

**IPSG**

**IPS Goal 5: Reduce the Risk of Health Care–Associated Infections**

**Standard IPSG.5**

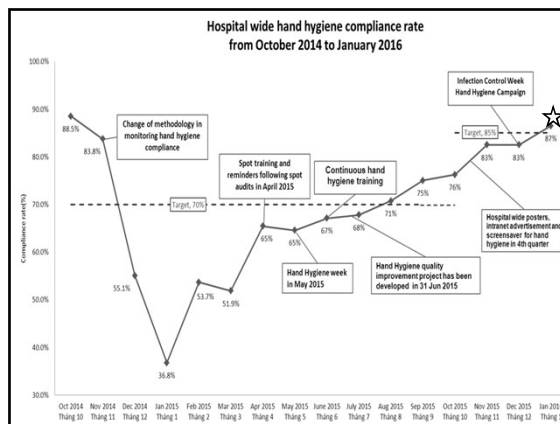
- The hospital adopts and implements evidence-based hand-hygiene guidelines to reduce the risk of health care–associated infections.

**Required Documents: (5<sup>th</sup> Edition)**

- Infection Prevention and Control Programme
  - > Includes at least Quarterly report (HAI Surveillance, Hand Hygiene Compliance, etc.)
- Staff health and Safety Programme
- Antibiotic Stewardship Programme (6<sup>th</sup> Edition)
- 9 Policies on Different PCI Standards

- Measurable Elements of IPSG.5
  - 1. The hospital has adopted currently published, evidence-based hand-hygiene guidelines.
  - 2. The hospital implements an effective hand-hygiene program throughout the hospital.
  - 3. Hand-washing and hand-disinfection procedures are used in accordance with hand-hygiene guidelines throughout the hospital.

**INTERNATIONAL PATIENT SAFETY GOALS (IPSG)**



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## PREVENTION AND CONTROL OF INFECTIONS: PCI

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### Standard PCI.3

The IPC program is based on current scientific knowledge, accepted practice guidelines, applicable laws and regulations, and standards for sanitation and cleanliness.

Program is based:

- ✓ *On current scientific knowledge, accepted practice guidelines, and local laws and regulations.*
- ✓ *ON national or local agencies for sanitation and cleanliness.*
- ✓ *Results are reported to public health agencies as required.*
- ✓ *Hospital takes appropriate action on reports from relevant public health agencies.*

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### Standard PCI.1

- One or more individuals oversee all infection prevention and control activities.
- ✓ *Qualified Individuals (ID specialists and IPC nurses) for the hospital's size, complexity of activities, and level of risks, as well as the program's scope.*
- ✓ *The individual(s) fulfills program oversight*

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### Standard PCI.4

Hospital leadership provides resources to support the infection prevention and control program.

*Hospital leadership allocates and approves:*

- ✓ *staffing and resources required for the infection prevention and control program.*
- ✓ *Information management systems*

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### Standard PCI.2

- There is a designated coordination mechanism for all infection prevention and control activities.

*Coordination of infection prevention and control activities involves physicians and nurses, and other stakeholders –*  
**IPC Committee**

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### Standard PCI.5

The hospital designs and implements a comprehensive program to reduce the risks of HAI in patients and health care workers.

*Comprehensive program that crosses all levels of the hospital, to reduce the risk of health care-associated infections in patients and in health care workers.*

- ✓ *systematic and proactive surveillance activities to determine usual (endemic) rates of infection.*
- ✓ *systems to investigate outbreaks of infectious diseases.*
- ✓ *Risk-reduction goals and measurable objectives are established and reviewed.*

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### Standard PCI.5.1

All patient, staff, and visitor areas of the hospital are included in the infection prevention and control program.

*Infection prevention and control program includes:*

- ✓ All patient care areas
- ✓ All staff areas
- ✓ All visitor areas of the hospital.

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### Standard PCI.7

The hospital identifies the procedures and processes associated with the risk of infection and implements strategies to reduce infection risk.

- ✓ *Identify processes associated with infection risk.*
- ✓ *Implement strategies, education, and evidence-based activities to reduce infection risk in those processes.*
- ✓ *Identify which risks require policies and/or procedures, staff education, practice changes, and other activities to support risk reduction.*

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### Standard PCI.6

The hospital uses a risk-based approach in establishing the focus of the health care-associated infection, prevention and reduction program.

### Standard PCI.6.1

The hospital tracks infection risks, infection rates, and trends in health care-associated infections to reduce the risks of those infections.

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### Standard PCI.7.1

The hospital reduces the risk of infections by ensuring adequate medical technology cleaning and sterilization and the proper management of laundry and linen.

- ✓ *Methods for medical technology cleaning, disinfection, and sterilization address the principles of infection prevention and control.*
- ✓ *applied throughout the hospital.*
- ✓ *applied to laundry and linen management, including transportation, cleaning, and storage.*

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*Hospitals collect and evaluate data on the following relevant infections and sites:*

- a) Respiratory - VAP
- b) Urinary catheters - CAUTI
- c) Intravascular invasive devices - CLABSI
- d) Surgical sites - SSI
- e) Multidrug-resistant organisms, highly virulent Infections - MDROs
- f) Emerging or reemerging infections with the community – ZIKA, H1N1, etc.

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### Standard PCI.7.1.1

The hospital identifies and implements a process for managing expired supplies and the reuse of single-use devices when laws and regulations permit.

*The policy is consistent with national laws and regulations and professional standards and includes identification of*

- a) *devices and materials that may be reused;*
- b) *the maximum number of reuses specific for each device*
- c) *the types of wear and cracking*
- d) *the cleaning process for each device*
- e) *identification of patients on whom reusable medical devices have been used*
- f) *a proactive evaluation of the safety of reusing*

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### Standard PCI.7.2

The hospital reduces the risk of infections through proper disposal of waste.

- ✓ *infectious waste and body fluids*
- ✓ *blood and blood components*
- ✓ *Operation of the mortuary and postmortem area*

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### Standard PCI.7.5

The hospital reduces the risk of infection in the facility associated with mechanical and engineering controls and during demolition, construction, and renovation.

*When demolition, construction, or renovation take place:*

- ✓ *Engineering controls*
- ✓ *Assessment the impact on PCI*
- ✓ *Air quality and infection prevention in place*


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### Standard PCI.7.3

The hospital implements practices for safe handling and disposal of sharps and needles.

- ✓ *handling and management of sharps and needles.*
- ✓ *collected in dedicated, closable, puncture-proof, leak-proof containers*
- ✓ *disposes of sharps and needles that ensure the proper disposal in dedicated hazardous waste sites or as determined by national laws and regulations*




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### Standard PCI.8

The hospital provides barrier precautions and isolation procedures that protect patients, visitors, and staff from communicable diseases and protects immunosuppressed patients from acquiring infections to which they are uniquely prone.

- ✓ *contagious diseases are isolated*
- ✓ *immunosuppressed patients are separated*
- ✓ *Negative-pressure rooms are monitored routinely and available*
- ✓ *Cleaning of infectious rooms during the patient's hospitalization and after discharge.*



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### Standard PCI.7.4

The hospital reduces the risk of infections associated with the operations of food services.

- ✓ *Stores*
- ✓ *Prepares food and nutrition products using sanitation, temperature, light, moisture, ventilation, and security in a manner that reduces the risk of infection.*
- ✓ *Kitchen sanitation measures are implemented to prevent the risk of cross contamination.*

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### Standard PCI.8.1

The hospital develops and implements a process to manage a sudden influx of patients with airborne infections and when negative-pressure rooms are not available.

- ✓ *Process to address managing patients with airborne infections for short periods of time when negative-pressure rooms are not available.*
- ✓ *Managing an influx of patients with contagious diseases.*
- ✓ *Staff are educated in the management of infectious patients when there is a sudden influx*

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### Standard PCI.9

Gloves, masks, eye protection, other protective equipment, soap, and disinfectants are available and used correctly when required.

- ✓ *Availability personal protective equipment*
- ✓ *PPE is correctly used*
- ✓ *Surface disinfecting procedures are implemented for areas identified as at risk for infection transmission.*
- ✓ *Soap, disinfectants, and towels in areas where hand-washing and hand-disinfecting procedures are required.*

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### IV. SUMMARY:

#### Infection Prevention and Control Standards

- IPSPG 5: Reduce the Risk of Infection - Hand Hygiene
- Organization of IPC - Oversight and Coordination of all Disciplines
- Evidence and Regulatory - Based IPC Program
- Management Support on IPC Program
- Comprehensive Program on HAI
- Risk Based Approach and Tracking of HAI
- Procedures and Processes associated with the risk of infection
- Cleaning and Sterilization
- Proper Management of Laundry

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### Standard PCI.10

The infection prevention and control process is integrated with the hospital's overall program for quality improvement and patient safety, using measures that are epidemiologically important to the hospital.

- ✓ *Integrated into the hospital's quality improvement and patient safety program.*
- ✓ *Monitoring data are collected and analysed*
- ✓ *Data are used to evaluate and support improvements to the infection prevention and control program.*
- ✓ *Documented and reports of data analysis and recommendations are provided to leadership on a quarterly basis.*

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### JCI PCI Standards

- Proper Disposal of Waste
- Expired Supplies and the Reuse of Single-use Devices
- Handling and Disposal of Sharps and Needles
- Risk of infection in the Facility Associated Activities
- Barrier Precautions on Spread of Infection
- Process to manage a sudden influx of patients with airborne infections
- Integration of IPC in QPS Program

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### Standard PCI.11

The hospital provides education on infection prevention and control practices to staff, physicians, patients, families, and other caregivers when indicated by their involvement in care.

- ✓ *The hospital provides education about infection prevention and control*
  - *to all staff and other professionals.*
  - *to patients and families.*
- ✓ *Periodic staff education is provided in response to significant trends in infection data.*
- ✓ *Findings and trends from the measurement activities are communicated throughout the hospital and included as part of periodic education.*

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### CONCLUSION:

**JCI ACCREDITATION : CREATE a CULTURE OF SAFETY and QUALITY of CARE to produce better OUTCOMES!**



**Quality Improvements never cease even to the best of hospitals in the world !**

