Infection Prevention and Control (IPC) Elements of an Effective Program

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Objectives

• What are the elements of an effective infection prevention and control program?
• How would I begin the evaluation process for the infection prevention and control program?
• What are the regulations that govern an infection prevention program?
Case for Infection Prevention and Control (IPC) Program

- Estimated that the annual cost of five major HAI was $9.8 billion: CLABSI, SSI, CAUTI, CDI, VAE (2013 American Medical Association)
- An APIC study found an effective IPC program can reduce healthcare associated infections (HAI) by 28%- 32%
- U.S. approx. 1.7 M affected accounting for 99,000 death (WHO report on the burden of endemic HAI world wide 2011)
- MDRO increased length of stay, costs and mortality (AJIC 2016; CDC 2006)
Infection Prevention and Control Program

IPC Program:
- Active organization-wide program for recognition, surveillance, prevention and control of infection
- Based on sound epidemiological principles and evidence based guidelines
- Compliant with regulatory rules, accreditation standards and standard practices (guidelines)
- Integrated into healthcare organizations strategic mission, vision and objectives
- Fiscally sound
Infection Prevention and Control Program

IPC Program Goals:

- Reduce the risk of health care associated infections in patients, visitors, healthcare providers, volunteers and students
- Reduce the risk of developing multi-drug resistance organisms
- Reduce the risk of environmental contamination
- Rapidly identify a cluster or outbreak
- Rapidly deploy effective prevention interventions
Infection Prevention and Control Program

Program Structure:

- IPC qualified, dedicated, leader with defined responsibilities, scope and function
- Designated IPCLead authority statement authorized by the organizations Administrator and Medical Staff Lead
- Adequate IPC staff to support activities and program
- Budget to support programmed activities
- Antimicrobial Stewardship Partnership
  - Decrease multi-drug resistance organisms
Infection Prevention and Control Program

Program Structure:

✓ Multi-disciplinary team/committee
  ✓ Responsible for investigations, policies, risk assessments, plans, safety, surveillance data, and educational recommendations

✓ Environmental
  ✓ Clean water, ventilation requirements, construction and renovation, pest control;
  ✓ Patient placement and isolation; influx of infectious patients;
  ✓ Storage of sterile and clean supplies;
  ✓ Cleaning, disinfection, high-level disinfection and sterility of facility, equipment and instruments
Infection Prevention and Control Program

Surveillance:

- Early detection and control of HAI and communicable diseases
- Identifies methods for control of HAI and communicable diseases
- Standardized case definitions and active methods of surveillance
  - Laboratory results review, immunization compliance, rounding, observation of compliance, environmental studies, etc.
Infection Prevention and Control Program

Surveillance:

☑ Flexible and easily adapted into changing healthcare scope, patient population and services

☑ Detection and investigation of outbreaks, emerging pathogens, communicable diseases

☑ Risk assessment
  ☑ Population/community, services, care settings
  ☑ Sets priorities for Surveillance Plan
Infection Prevention and Control Program

Surveillance:

✓ Surveillance Plan
  ✓ Outlines types and areas of surveillance activities
  ✓ Organizational wide plan of surveillance activities
  ✓ Process and outcomes measures
  ✓ Establishes goals and benchmarks
Infection Prevention and Control Program

Data Collection and Evaluation:

- Integrated into practice settings and documentation practices
- Manual, electronic, or combination
- Statistical analysis
  - Identify trends or outbreaks in infectious communicable diseases and healthcare associated infections
  - Identifies compliance with performance measures and policies
- Annual evaluation of effectiveness of IPC program and surveillance plan
Infection Prevention and Control Program

Communication and Education:

✓ Link with public health partners and regulatory agencies for mandatory reporting and improvement activities
✓ Link with consumer partnerships and community services
✓ Clear goals effectively communicated across organization
✓ Communication of performance/outcome goals and educational interventions
  ✓ Communicate through operations and medical staff committees, executive leadership and Board of Directors
  ✓ Direct patient care providers through internal communication tools: electronic and printed
✓ Patients and families
Infection Prevention and Control Program

IPC Resource:
✓ Education and collaboration across spectrum of care through multidisciplinary team approach
✓ Patient centered prevention interventions
✓ Product and service evaluation
✓ Policy and procedure development
✓ Collaboration with emergency preparedness
✓ Content expert: informer not enforcer
Infection Prevention and Control Program

IPC Resource:

✓ IPC Program Evaluation Process:
  ✓ Review Infection Prevention and Control Program Status Tool.
IP Program Components

QUESTIONS?

Thank you
IP Program Components
Reference Links