

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

**Dana M. Stephens, BS, BSH, MT, CIC, FAPIC**  
**Director of Infection Prevention and Control**  
**KY One Health: SJE, SJJ, SJH**  
**IP Boot Camp 2017**



# 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 IPC Lead 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