A Roadmap to Infection Prevention & Control (IPC) and Hospital Epidemiology **Education for Infectious Diseases (ID) Fellows** University of Colorado Anschutz Medical Campus Larissa Pisney, MD

Purpose

- The Accreditation Council for Graduate Medical Education (ACGME) ID milestones include medical knowledge elements related to IPC and hospital epidemiology.
- Currently the ID fellowship at the University of Colorado has only limited lectures related to these topics.
- We describe a framework for stepwise development of a curriculum to provide fellows with the knowledge and skills needed to practice IPC and healthcare epidemiology.

Program Objectives

- The initial aim is creation of a month-long rotation in the first year that will teach fellows foundational knowledge of the principles of IPC and hospital epidemiology.
- Fellows will perform training activities to develop skills related to the core functions of IPC (Figure 1).
- We plan to publish on the impact of the first-year rotation. Results will also be used to support the development of each subsequent stage of training - the second year IPC Track (IPCT) and ultimately an advanced third year fellowship.

- Participate in:
 - Central line-associated bloodstream infections committees Catheter-associated urinary tract infections committees

 - *C. difficile* committees
 - Surgical site infection committees
 - Inter-rater reliability meetings for surveillance adjudication
 - On-call activities related to isolation questions and exposures • Unit rounds and tracers

 - The investigation of an epidemiologically significant pathogen A quality improvement project (optional)

• Lead a journal club on an infection prevention topic

- year.
 - Further training on environmental cleaning, disinfection, sterilization, construction, and emergency preparedness.
 - Participate in education of first-year fellows and other healthcare workers, review HAIs for actionable trends, lead an outbreak investigation and conduct a research project.
- initiative and be prepared for leadership roles in IPC.

Division of Infectious Diseases, University of Colorado School of Medicine

Training Activities

The Society for Healthcare Epidemiology of America Primer on Healthcare Epidemiology, Infection Control and Antimicrobial Stewardship and National Health Safety Network modules for healthcare associated infections (HAIs)

Lectures on transmission-based precautions, hand hygiene, surveillance, HAI prevention, occupational health, epidemiology, outbreak investigations, and emerging infections; complete a visual case series related to common IPC concerns

Review of state and local health department reporting requirements

Future Aims

Following successful implementation of a first-year fellowship rotation, the intent is to develop a second year IPCT to build on the knowledge and experiences from the first

Aspirational goals for the program include developing an advanced fellowship for third year fellows during which they will lead a large-scale, innovative, quality improvement

Surveillance for HAIs & epidemiologically significant organisms

Analyze procedure & deviceassociated infections

Create evidence-based intervetions to prevent HAIs

Evaluate methods & technologies to reduce transmission of pathogens

Create & maintain appropriate IPC policies

Contribute to educational programs regarding IPC for healthcare workers

employees with communicable diseases

Advise leadership on issues related to

Participate in programs & intiatives for quality improvement & infection reduction

Partner with safety programs related to IPC (e.g. sterilization, cobnstruction, AST)

