Implementation of education with ongoing feedback for the appropriate treatment and diagnosis of urinary tract infections: Antimicrobial stewardship collaborative with Colorado Hospital Association

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Implementation of education with ongoing feedback for the appropriate treatment and diagnosis of urinary tract infections: Antimicrobial Stewardship Collaborative with Colorado Hospital Association

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PURPOSE

- Urinary tract infections (UTIs) are one of the most common indications for antibiotics among hospitalized patients
- Colorado Hospital Association (CHA) has implemented an Antimicrobial Stewardship Collaborative as a result of:
  - Inappropriate treatment of asymptomatic bacteriuria
  - Increased urinary pathogen resistance
- The goals of this collaborative include the following:
  - Decrease the rate of *Clostridium difficile* infection (CDI)
  - Reduce fluoroquinolone (FQ) use for UTIs
  - Limit duration of treatment for UTIs
  - Reduce readmission rates for UTIs
  - Improve the accurate diagnosis of UTIs according to the Infectious Diseases Society of America (IDSA) guidelines

METHODS

Study Design:

- Pre- and post-implementation project: combined retrospective chart review and prospective, post-implementation study

Inclusion Criteria:

- Patients discharged from Swedish Medical Center (SMC) with a primary or secondary diagnosis of a UTI

Exclusion Criteria:

- <18 years of age
- Pregnancy
- Discharge antibiotic and/or duration unknown

Baseline Data Collection:

- Chart review of 80 randomly selected patients during 2014

Intervention Phase:

- Daily audit of FQ prescribing for UTIs with feedback to providers
- Bimonthly educational sessions
- Distribution of UTI diagnosis algorithms
- Quarterly review of 20 randomly selected patients with UTI diagnoses

RESULTS

- Fluoroquinolone prescribing and readmissions for UTIs have decreased
- Some improvement in the appropriate diagnosis of UTIs has been shown
- Expect to see continued decreases in the treatment of asymptomatic bacteriuria with daily education
- Pharmacist education of providers is a highly effective way to improve appropriate use of antimicrobials
- Ongoing participation in the collaborative will continue until July 2017 to show sustainability of interventions

CONCLUSIONS / EVALUATION

DISCLOSURES

Authors of this presentation have nothing to disclose concerning potential financial or personal relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation:

- Audra Wilson: Nothing to disclose
- Kylie Mueller: Nothing to disclose
Appropriate UTI Diagnosis

Baseline  POST Implementation