

BACKGROUND

- Urinalysis and urine cultures are frequently ordered in the emergency department without an indication, leading to unnecessary antibiotic use
- Unnecessary antibiotic use leads to increased resistance rates, increased adverse events, and increased spending of healthcare dollars
- Antimicrobial stewardship is a growing field that can limit use of antibiotics to conserve efficacy, avoid unnecessary side effect exposure, and reduce spending

OBJECTIVE

- Assess percent of patients with a true indication for urinalysis and urine culture
- Assess percent of patients receiving urinalysis and urine culture
- Assess percent of patients receiving unnecessary antibiotics for asymptomatic bacteriuria

METHODS

Study Design

• Retrospective cohort study

Inclusion Criteria

- Adults aged 18+ years old
- Admitted from the emergency department (ED) from July 1, 2021 July 10, 2021
- Urinalysis and/or urine culture ordered in the ED

Exclusion Criteria

- Admission to the ICU
- Treatment for UTI prior to admission
- No documented review of systems

Study Measures

Urinalysis indicated:

- Sepsis workup
- Urinary symptoms (pain on urination, frequency, urgency, flank pain/tenderness, suprapubic tenderness)
- Altered mental status without explanation
- DKA
- Biliary obstruction
- Hepatitis
- Hematuria

Urine culture indicated:

- Positive urinalysis (presence of leukocyte esterase, nitrites, >10 WBC, presence of bacteria) plus urinary symptoms (see above) Antibiotic given for asymptomatic bacteriuria without other indication:
- Positive urinalysis and/or urine culture without urinary symptoms Data Analysis
- Descriptive statistics were used for this study



obtained of all those included.

