

Urinary Tract Infection Case Studies

Case 1:

- 2/2 Ms. Jones presented to the ED from a local nursing home with altered mental status. She has an indwelling urinary catheter (IUC) in place.
- 2/3 She is admitted to the ICU.
- 2/4 IUC removed.
- 2/5 Ms. Jones is unable to void and the IUC is replaced. A urine culture is collected and results positive for >100K CFU/ml E.coli.
- 2/6 Ms. Jones transfers to an acute care floor, she then has a temp of 38.2°C.
- 2/10 She is discharged back to her nursing home.

Question:

1. Does this patient have a UTI?
 - a. Yes, SUTI 1A (CAUTI)
 - b. Yes, SUTI 1B (non-catheter associated)
 - c. Yes, SUTI 2 (CAUTI)
 - d. Yes, SUTI 2 (non-catheter associated)
 - e. Yes, ABUTI (CAUTI)
 - f. Yes. ABUTI (non-catheter associated)
 - g. No UTI

Case 2:

- 2/2 Letsall Dogood, a post-op surgery patient, presents to the ED with a several days history of weakness, poor oral intake, and inability to void. An indwelling urinary catheter (IUC) is inserted in the ED.
- 2/3 they are admitted to the inpatient surgery unit for further work-up. Temp noted to be 38.3° C on admission to the unit.
- 2/4 continues to have fevers, with a temp of 38.2° C. A urine culture is collected which yields > 100K Coagulase Negative Staphylococcus.

Question:

1. Does this patient have a UTI?
 - a. Yes, SUTI 1A (CAUTI)
 - b. Yes, SUTI 1B (non-catheter associated)
 - c. Yes, SUTI 2 (CAUTI)
 - d. Yes, SUTI 2 (non-catheter associated)

- e. Yes, ABUTI (CAUTI)
- f. Yes. ABUTI (non-catheter associated)
- g. No UTI

Bonus Question:

- Is this POA or HAI?

Case 3:

- 5/1 Mr. Coude is admitted to the ICU with DKA and is unresponsive. An indwelling urinary catheter (IUC) is inserted on admission.
- 5/6 Mr. Coude is responsive and his IUC is removed.
- 5/15 His IUC is replaced due to urinary retention
- 5/19 the IUC is removed
- 5/20 the IUC is replaced due to retention
- 6/2 WBC increased
- 6/3 temps 38.2°C. A urine culture is obtained and is positive for >100K CFU/ml *Pseudomonas aeruginosa*. Central line inserted and antibiotics started.
- 6/15 temp 39.2°C, blood and urine cultures obtained. Urine cultures positive for >100K *E.coli* and *C.albicans*. Blood cultures positive for *E.coli* and *C. albicans*.

Questions:

1. Does this patient have a UTI?
 - a. Yes, SUTI 1A (CAUTI)
 - b. Yes, SUTI 1B (non-catheter associated)
 - c. Yes, SUTI 2 (CAUTI)
 - d. Yes, SUTI 2 (non-catheter associated)
 - e. Yes, ABUTI (CAUTI)
 - f. Yes. ABUTI (non-catheter associated)
 - g. No UTI

Bonus Question:

2. Does the patient also have a BSI and if so what type?
 - a. Primary BSI with *E. coli* and *C. albicans*
 - b. Secondary BSI with *E. coli* and *C. albicans*
 - c. Primary BSI with *C. albicans* and secondary BSI with *E. coli*
 - d. Primary BSI with *E. coli*; *C. albicans* is a contaminant.