Health Protection Agency and Centers for Disease Control and Prevention definitions for Urinary Tract Infection

**HPA definitions**

**Healthcare associated if onset:**
- Day 3 of admission onwards (>48 hours) or
- Day 1 or Day 2 AND patient discharged from hospital in preceding 48 hours
- Day 1 or day 2 AND patient has relevant device inserted on this admission prior to onset

**CAUTI**
If indwelling catheter in situ at time of infection onset or removed in previous >48 prior to symptom onset

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**Microbiologically confirmed symptomatic UTI**

- Patient has at least one of the following signs of symptoms with no other recognized cause: fever (>38°C), urgency, frequency, dysuria, or suprapubic tenderness

and

- Patient has a positive urine culture, that is, ≥ 10^5 microorganisms per ml of urine with no more than 2 species of microorganisms.

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**Not microbiologically confirmed symptomatic UTI**

- Patient has at least two of the following with no other recognized cause: fever (>38°C), urgency, frequency, dysuria, or suprapubic tenderness

and

at least one of the following:

- Positive dipstick for leukocyte esterase and/or nitrate
- Pyuria urine specimen with ≥10 WBC/ml or ≥ 3 WBC/high-power field of unspun urine
- Organisms seen on Gram stain of unspun urine
- At least two urine cultures with repeated isolation of the same uropathogen (gram-negative bacteria or S. saprophyticus) with ≥ 10^2 colonies/ml urine in nonvoided specimens
  - ≤10^8 colonies/ml of a single uropathogen (gram-negative bacteria or S. saprophyticus) in
- A patient being treated with effective antimicrobial agent for a urinary infection
- Physician diagnosis of a urinary tract infection
- Physician institutes appropriate therapy for a urinary infection

*NOTE: bloodstream infections secondary to asymptomatic bacteriuria are not included

**CDC definitions**

**Healthcare associated if onset:**
- after the 3rd hospital day (day of hospital admission is day 1) (>48 hours)

**CAUTI**
- Indwelling urinary catheter was in place for >2 calendar days when all elements of the UTI infection criterion were first present together, with day of device placement being Day 1 and
- an indwelling urinary catheter was in place on the date of event or the day before.

**Symptomatic urinary tract infection – Had indwelling catheter**

CDC definitions

Symptomatic urinary tract infection – No indwelling catheter

Patient did not have an indwelling urinary catheter at the time of, or within 48 hours prior to, specimen collection or onset of signs or symptoms.

**Signs and Symptoms**
- At least 1 of the following with no other recognized cause:
  - Fever (>38°C) in a patient that is ≤65 years of age
  - Urgency
  - Frequency
  - Dysuria

**Laboratory Evidence**
- At least 1 of the following findings:
  - Positive dipstick for leukocyte esterase and/or nitrite
  - Pyuria (urine specimen with ≥10 WBC/mm³ of unspun urine or ≥3 WBC/high power field of spun urine)
  - Microorganisms seen on Gram stain of unspun urine

- A positive urine culture of ≥10⁵ CFU/ml with no more than 2 species of microorganisms
- A positive urine culture of ≥10⁹ and <10⁶ CFU/ml with no more than 2 species of microorganisms

**Symptomatic UTI**
**No CAUTI**
CDC definitions

Symptomatic urinary tract infection – <1 year - with or without indwelling catheter

*The indwelling urinary catheter was in place within 48 hours prior to specimen collection or onset of signs or symptoms.*
### CDC definitions

**Asymptomatic bacteremic urinary tract infection – <1 year - with or without indwelling catheter**

- **Signs and Symptoms**
  - None of the following:
    - Fever (≥38°C)
    - Urigency
    - Frequency
    - Dysuria
    - Urethral pain or tenderness

- **Culture Evidence**
  - A positive urine culture of ≥10⁵ CFU/ml with no more than 2 species of microorganisms**
  - A positive blood culture with at least 1 matching uropathogen microorganism** to the urine culture

- **Asymptomatic Bacteremic Urinary Tract Infection (ABUTI)**

- **Was an indwelling urinary catheter in place within the 48 hours prior to specimen collection?**
  - **Yes**: CAUTI
  - **No**: Asymptomatic bacteremic UTI

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*The indwelling urinary catheter was in place within 48 hours prior to specimen collection.*

**Uropathogen microorganisms are: Gram-negative bacilli, *Staphylococcus spp.*, *Streptococcus spp.*, *Enterococcus spp.*, *Escherichia coli*, *Corynebacterium urease positive*.**

**Report *Corynebacterium urease positive* as either *Corynebacterium species unspecified* (COS) or as *C. urealyticum* (CORUT) if so specified.*