

Algorithm for Determining Catheter-Associated Urinary Tract Infection Using NHSN Criteria, January 2017 Revision

Positive Urine Culture with no more than 2 species of organisms, at least one of which is a bacteria of $\geq 10^5$ CFU/ml. All elements of the UTI criterion must occur during the Infection Window Period*
(Note if none of the organisms present at $\geq 10^5$ CFU/ml are bacteria, answer= no)

AND

Indwelling catheter that had had been in place >2 calendar days, AND was either:

1. Still present on date of event, OR
2. Removed day before date of event

Indwelling Urinary Catheter (IUC): A drainage tube that is inserted into the urinary bladder through the urethra, is left in place, and is connected to a drainage bag (including leg bags). Excluded are suprapubic, condom or straight (in and out) catheters & nephrostomy tubes; included are IUC used for intermittent or continuous irrigation. **IUC must be in place for > 2 calendar days (placement date = Day 1) for CAUTI evaluation.**

AND

At least **1** of the following signs or symptoms:

1. If catheter in place the entire day of event:
 - a. **Any age patient:** Suprapubic tenderness, costovertebral angle pain, fever ($>38^\circ\text{C}$)
 - b. **Patients ≤ 1 year of age:** Suprapubic tenderness, costovertebral angle pain, fever ($>38^\circ\text{C}$), hypothermia ($<36^\circ\text{C}$), apnea, bradycardia, lethargy, or vomiting
2. If catheter removed on day of or day before event:
 - a. **Any age patient:** Suprapubic tenderness, costovertebral angle pain, fever ($>38^\circ\text{C}$), urgency, frequency, dysuria
 - b. **Patients ≤ 1 year of age:** Suprapubic tenderness, costovertebral angle pain, fever ($>38^\circ\text{C}$), hypothermia ($<36^\circ\text{C}$), apnea, bradycardia, lethargy, or vomiting

YES

NO

Meets criteria for catheter-associated Symptomatic UTI: SUTI (CAUTI)

Blood culture positive with at least one matching bacteria in the urine $\geq 10^5$ CFU/ml?

YES

NO

Meets criteria for catheter-associated Asymptomatic Bacteremic UTI: ABUTI (CAUTI)

Does not meet UTI criteria

***Infection Window Period:** The NHSN Infection Window Period is defined as the 7 days during which all site-specific infection criteria must be met. It includes the day of the first positive diagnostic test and the 3 calendar days before and the 3 calendar days after.

Infection Window Period		3 days before
	First positive diagnostic test OR First documented localized sign and/or symptom in the absence of a diagnostic test	
		3 days after