

Algorithm for Determining Catheter-Associated Urinary Tract Infection Using NHSN Criteria, 2022 Revision

Note: "Mixed flora" is not available in the pathogen list, a culture alone with this result does not meet criteria, a culture with this result in addition to a specified organism would = > 2 organisms.

Positive Urine Culture with no more than 2 species of organisms identified, at least one of which is a **bacterium** of $\geq 10^5$ CFU/ml ($\geq 100,000$). All elements of the UTI criterion must occur during the Infection Window Period.

Note: Any yeast (Candida included), mold, dimorphic fungi or parasites are excluded from CAUTI surveillance

AND

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

1. Present for any portion of the calendar day on the 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.

AND

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

1. If catheter in place on symptom onset:
 - a. **Patient > 1 year of age:** Suprapubic tenderness*, costovertebral angle pain*, or 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 was removed prior to symptom onset:
 - a. **Patient > 1 year of age:** Suprapubic tenderness*, costovertebral angle pain*, fever ($>38^{\circ}\text{C}$), urinary urgency, urinary frequency, or 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*

*With no other recognized cause ([see comments](#)) on 7-8.

YES

NO

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

Blood culture positive with at least one matching **bacterium** 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