

APIC Surveillance SIG Surveillance Questions March 2022

Scenario 1

In the following scenario, what type of HAI criteria are met?

- 2/10: Patient admitted to Medical/Surgical floor with a history of leukemia and a chief complaint of febrile neutropenia. Patient had an indwelling Mediport accessed in the ED and still infusing on admit. Blood cultures drawn on admit- no growth.
- 2/17: WBC 4,000 cells/mm³
- 2/18: ANC 260 cells/mm³
- 2/19: 330 cells/mm³
- 2/20: Temp: 102. CXR negative. Urine culture negative. Blood Culture positive – Escherichia coli
- 2/21: ANC 800 cells/mm³; CT Abdomen and Pelvis- no acute findings

Does the patient have a CLABSI?

What NHSN criteria is met (example LCBI 3, SIP b, IAB 3b)?

What organism (s) would be reported to NHSN?

Please complete the following for each definition that was met:

What is the Infection Window Period (IWP)?

What is the Date of Event (DOE)?

What is the Repeat Infection Timeframe (RIT)?

What is the Secondary BSI Attribution Period?

Scenario 2

- 2/5: Patient admitted to ICU with COVID Pneumonia. COVID + Test on 9/2 at outside facility. Symptoms include Temp 102.3, progressive shortness of breath, hypoxic with O₂ sat 55% on room air, breath sounds with rales. Chest XRAY showing multifocal pneumonia. IV Decadron and Remdesivir started. Patient Intubated/Vent/Sedated. Central Line placed.
- 2/6: Chest XRAY – Stable extensive bilateral opacities, most compatible with multifocal pneumonia.
- 2/15: Chest XRAY – Persistent diffuse infiltrates in both lungs.
- 2/16: Chest XRAY – Diffuse extensive infiltrates in both lungs, stable.
- 2/17: Temp 100.7. Breath sounds with Crackles. Patient with continual desats down to 60%. Vent settings increased. Physician PN- Significant hypotension noted
- 2/18: Blood Culture + Enterococcus faecium and Staphylococcus epidermidis (coagulase negative)
Blood Culture + Coagulase negative Staphylococci

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What is the Secondary BSI Attribution Period?

- Infection Window Period (IWP) (first positive diagnostic test, 3 days before and 3 days after)
- Date of Event (DOE) (date the first element occurs for the first time within the infection window period)
- Repeat Infection Timeframe (RIT) (14 day timeframe where date of event = day 1)
- Secondary BSI Attribution Period (SBAP) (IWP + RIT)
- Worksheet Generator: <https://nhsn.cdc.gov/nhsntraining/calculator/workgen.html>