

APIC Surveillance SIG Surveillance Answers 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/mm<sup>3</sup>
- 2/18: ANC 260 cells/mm<sup>3</sup>
- 2/19: ANC 330 cells/mm<sup>3</sup>
- 2/20: Temp: 102. CXR negative. Urine culture negative. Blood Culture positive – Escherichia coli
- 2/21: ANC 800 cells/mm<sup>3</sup>; CT Abdomen and Pelvis- no acute findings

Does the patient have a CLABSI? **Yes**

What NHSN criteria is met (example LCBI 3, SIP b, IAB 3b)? **MBI-LCBI 1- 2/20 BC, ANC <500 2/18-2/19**

Please complete the following for each definition that was met:

What is the Infection Window Period (IWP)? **2/17-2/23**

What is the Date of Event (DOE)? **2/20**

What is the Repeat Infection Timeframe (RIT)? **2/20-3/5**

What is the Secondary BSI Attribution Period? **N/A**

Admit date: 2/10/2022

Hospital Day/Date	First Diagnostic Test	Infection Window Period (*)	Date of Event	Repeat Infection Timeframe (*)
8. - 2/17/2022		<input type="checkbox"/>	-	
9. - 2/18/2022		<input type="checkbox"/> ANC 0.26 (260)	-	
10. - 2/19/2022		<input type="checkbox"/> ANC 0.33 (330)	-	
11. - 2/20/2022	✓	<input checked="" type="checkbox"/> BC E. coli	- HAI	
12. - 2/21/2022		<input type="checkbox"/>	-	
13. - 2/22/2022		<input type="checkbox"/>	-	
14. - 2/23/2022		<input type="checkbox"/>	-	
15. - 2/24/2022			-	
16. - 2/25/2022			-	
17. - 2/26/2022			-	
18. - 2/27/2022			-	
19. - 2/28/2022			-	
20. - 3/1/2022			-	
21. - 3/2/2022			-	
22. - 3/3/2022			-	
23. - 3/4/2022			-	
24. - 3/5/2022			-	

- 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>

Scenario 2

- 2/5: Patient admitted to ICU with COVID Pneumonia. COVID + Test on 2/2 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

Does the patient have a CLABSI? **Yes**

What NHSN criteria is met (example LCBI 3, SIP b, IAB 3b)? **CLABSI-LCBI 1**

**LCBI 2 is also met with 2/18 CNS and Staph epi and 2/17 fever and hypotension- LCBI 1 is reported only w/org from LCBI 2**

What organism (s) would be reported to NHSN? **Enterococcus faecium, Staphylococcus epidermidis**

Please complete the following for each definition that was met:

What is the Infection Window Period (IWP)? **2/15-2/21**

What is the Date of Event (DOE)? **2/17**

What is the Repeat Infection Timeframe (RIT)? **2/17-3/2**

What is the Secondary BSI Attribution Period? **N/A**

Admit date: 2/5/2022

Hospital Day/Date	First Diagnostic Test	Infection Window Period (*)	Date of Event	Repeat Infection Timeframe (*)
11. - 2/15/2022		<input type="checkbox"/>	-	
12. - 2/16/2022		<input type="checkbox"/>	-	
13. - 2/17/2022		<input checked="" type="checkbox"/> Temp 100.7 & hypotension	- HAI	
14. - 2/18/2022	✓	✓ BC E. faecium & Staph epi BC Coag Neg staph	-	
15. - 2/19/2022		<input type="checkbox"/>	-	
16. - 2/20/2022		<input type="checkbox"/>	-	
17. - 2/21/2022		<input type="checkbox"/>	-	
18. - 2/22/2022			-	
19. - 2/23/2022			-	
20. - 2/24/2022			-	
21. - 2/25/2022			-	
22. - 2/26/2022			-	
23. - 2/27/2022			-	
24. - 2/28/2022			-	
25. - 3/1/2022			-	
26. - 3/2/2022			-	

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- Secondary BSI Attribution Period (SBAP) (IWP + RIT)
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