

APIC Surveillance SIG Surveillance Answers January 2020

In the following scenarios, use the Infection Window Period (IWP), Date of Event (DOE), Repeat Infection Timeframe (RIT), and Secondary BSI Attribution Period (SBAP) to determine what type of HAI criteria are met.

Scenario #1

7/1 53-year-old female admitted to ICU. Foley inserted.

7/2 PICC inserted

7/3 Temp 100.5

7/4 Urine culture: 50,000 to 100,000 CFU/ml E.coli 1 and 50,000 to 100,000 CFU/ml E.coli 2

7/5 Blood culture: E.coli

Does the patient have a CAUTI? Yes

Does the patient have a CLABSI? No

What NHSN criteria is met (example LCBI 3, SIP b, IAB 3b)? SUTI 1a with a secondary BSI

IWP? 7/1-7/7

DOE? 7/3

RIT? 7/3-7/16

SBAP? 7/1-7/16

Admit date: 7/1/2019

Hospital Day/Date	First Diagnostic Test	Infection Window Period (*)	Date of Event	Repeat Infection Timeframe (*)	Secondary BSI Attribution Period (*)
1. - 7/1/2019 - Admit Date		<input type="checkbox"/>	-		
2. - 7/2/2019		<input type="checkbox"/>	-		
3. - 7/3/2019		<input checked="" type="checkbox"/> Temp 100.5	- HAI		
4. - 7/4/2019	✓	<input checked="" type="checkbox"/> Urine culture: E.coli 100-200k	-		
5. - 7/5/2019		<input type="checkbox"/>	-		Blood culture: E.coli
6. - 7/6/2019		<input type="checkbox"/>	-		
7. - 7/7/2019		<input type="checkbox"/>	-		
8. - 7/8/2019			-		
9. - 7/9/2019			-		
10. - 7/10/2019			-		
11. - 7/11/2019			-		
12. - 7/12/2019			-		
13. - 7/13/2019			-		
14. - 7/14/2019			-		
15. - 7/15/2019			-		
16. - 7/16/2019			-		

Scenario #2

- 6/28 68-year-old male brought to the OR for surgery. ICD-10-PCS codes for surgical procedures performed include: 0SRD0J9, 0SPD0JZ, 0SCD0ZZ

- 7/14 Patient arrived in the ED with a left leg injury after a fall. He has left knee tenderness and swelling.
 X-ray femur: Fracture of the distal left femur is seen. There is a left knee prosthesis and the fracture begins above the level of the prosthesis. Joint effusion is observed.
 Admitted to med/surg unit.
 H&P: severe tenderness and limited range of motion to left knee.

- 7/15 CT left knee: fracture of the distal left femur that begins above the femoral component of the patient's left knee arthroplasty. Displacement and angulation of the fracture with extensive hemorrhage and hematoma is observed.
 Left knee joint fluid: Gram stain: gram negative rods and many white blood cells. Culture: no growth.

- 7/16 Central line inserted

- 7/22 Blood culture: Pseudomonas aeruginosa

Does the patient have a CLABSI? Yes

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

BSI IWP? 7/19-7/25

BSI DOE? 7/22

BSI RIT? 7/22-8/4

Does the patient have an SSI? No

If this is an SSI, what is the deepest criteria met (superficial, deep, organ/space): n/a

List all NHSN criteria met at this deepest level (example SUTI 1b, SIP b, BONE 3a): n/a

SSI DOE? n/a

SSI SBAP? n/a

Admit date: 7/14/2019

Hospital Day/Date	First Diagnostic Test	Infection Window Period (*)	Date of Event	Repeat Infection Timeframe (*)
6. - 7/19/2019		<input type="checkbox"/>	-	
7. - 7/20/2019		<input type="checkbox"/>	-	
8. - 7/21/2019		<input type="checkbox"/>	-	
9. - 7/22/2019	✓	✓ Blood culture: P.aeruginosa	- HAI	
10. - 7/23/2019		<input type="checkbox"/>	-	
11. - 7/24/2019		<input type="checkbox"/>	-	
12. - 7/25/2019		<input type="checkbox"/>	-	
13. - 7/26/2019			-	
14. - 7/27/2019			-	
15. - 7/28/2019			-	
16. - 7/29/2019			-	
17. - 7/30/2019			-	
18. - 7/31/2019			-	
19. - 8/1/2019			-	
20. - 8/2/2019			-	
21. - 8/3/2019			-	
22. - 8/4/2019			-	