

APIC Surveillance SIG Surveillance Answers November 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

- 7/5 49 year old female admitted to ICU and a foley catheter was inserted
- 7/6 Temp 100.7
- 7/7 Temp 100.5; Urine culture Candida albicans >100,000 CFU/ml
- 7/8 Foley catheter removed; Temp 100.6
- 7/9 Temp 100.9
- 7/10 Temp 101
- 7/11 Temp 100.5
- 7/12 Temp 100.7; Urine culture K.pneumoniae >100,000 CFU/ml and E.coli 10,000 - 50,000 CFU/ml
- 7/13 Temp 100.8
- 7/22 Temp 100.5; Urine culture S.aureus >100,000 CFU/ml and E. cloacae >100,000 CFU/ml

Does the patient have a CAUTI? Yes

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

What organisms would be reported? K.pneumoniae, S.aureus, & E.cloacae

IWP? 7/9-7/15

DOE? 7/9

RIT? 7/9-7/22

SBAP? 7/9-7/22

Admit date: 7/5/2020

| Hospital Day/Date | First Diagnostic Test | Infection Window Period (*)   | Date of Event | Repeat Infection Timeframe (*)     | Secondary BSI Attribution Period (*) |
|-------------------|-----------------------|---|---------------|------------------------------------|--------------------------------------|
| 5. - 7/9/2020     |                       | <input checked="" type="checkbox"/> Temp 100.9                          | - HAI         |                                    |                                      |
| 6. - 7/10/2020    |                       | <input checked="" type="checkbox"/> Temp 101                            |               |                                    |                                      |
| 7. - 7/11/2020    |                       | <input checked="" type="checkbox"/> Temp 100.5                          |               |                                    |                                      |
| 8. - 7/12/2020    | ✓                     | <input checked="" type="checkbox"/> urine culture: K.pneumo; Temp 100.7 |               |                                    |                                      |
| 9. - 7/13/2020    |                       | <input checked="" type="checkbox"/> Temp 100.8                          |               |                                    |                                      |
| 10. - 7/14/2020   |                       | <input type="checkbox"/>  |               |                                    |                                      |
| 11. - 7/15/2020   |                       | <input type="checkbox"/>  |               |                                    |                                      |
| 12. - 7/16/2020   |                       |   |               |                                    |                                      |
| 13. - 7/17/2020   |                       |   |               |                                    |                                      |
| 14. - 7/18/2020   |                       |   |               |                                    |                                      |
| 15. - 7/19/2020   |                       |   |               |                                    |                                      |
| 16. - 7/20/2020   |                       |   |               |                                    |                                      |
| 17. - 7/21/2020   |                       |   |               |                                    |                                      |
| 18. - 7/22/2020   |                       |   |               | urine culture: S.aureus, E.cloacae |                                      |

Scenario #2

- 7/5 61 year old male admitted to med/surg with a PICC
- 7/6 Blood culture Streptococcus viridans
- 7/7 Temp 100.7
- 7/8 Temp 100.8; Blood culture S.viridans
- 7/9 Temp 100.4
- 7/10 BP 89/60
- 7/11 Progress note: Hypotension requiring vasopressors
- 7/12 BP 94/66; Blood culture S.viridans
- 7/13 BP100/68; Blood culture S.viridans
- 7/14 BP 90/64

Does the patient have a CLABSI? Yes

What NHSN criteria is met (example SUTI 1b, SIP b, IAB 3b)? LCBI 2

IWP? 7/9-7/15

DOE? 7/11

RIT? 7/11-7/24

SBAP? N/A

Admit date: 7/5/2020

| Hospital Day/Date | First Diagnostic Test | Infection Window Period<br>(* )     | Date of Event             | Repeat Infection Timeframe<br>(* ) |
|-------------------|-----------------------|-------------------------------------|---------------------------|------------------------------------|
| 5. - 7/9/2020     |                       | <input type="checkbox"/>            | -                         |                                    |
| 6. - 7/10/2020    |                       | <input type="checkbox"/>            | -                         |                                    |
| 7. - 7/11/2020    |                       | <input checked="" type="checkbox"/> | hypotension               | HAI                                |
| 8. - 7/12/2020    | ✓                     | <input checked="" type="checkbox"/> | Blood culture: S.viridans |                                    |
| 9. - 7/13/2020    |                       | <input checked="" type="checkbox"/> | Blood culture: S.viridans |                                    |
| 10. - 7/14/2020   |                       | <input type="checkbox"/>            | -                         |                                    |
| 11. - 7/15/2020   |                       | <input type="checkbox"/>            | -                         |                                    |
| 12. - 7/16/2020   |                       |                                     | -                         |                                    |
| 13. - 7/17/2020   |                       |                                     | -                         |                                    |
| 14. - 7/18/2020   |                       |                                     | -                         |                                    |
| 15. - 7/19/2020   |                       |                                     | -                         |                                    |
| 16. - 7/20/2020   |                       |                                     | -                         |                                    |
| 17. - 7/21/2020   |                       |                                     | -                         |                                    |
| 18. - 7/22/2020   |                       |                                     | -                         |                                    |
| 19. - 7/23/2020   |                       |                                     | -                         |                                    |
| 20. - 7/24/2020   |                       |                                     | -                         |                                    |