

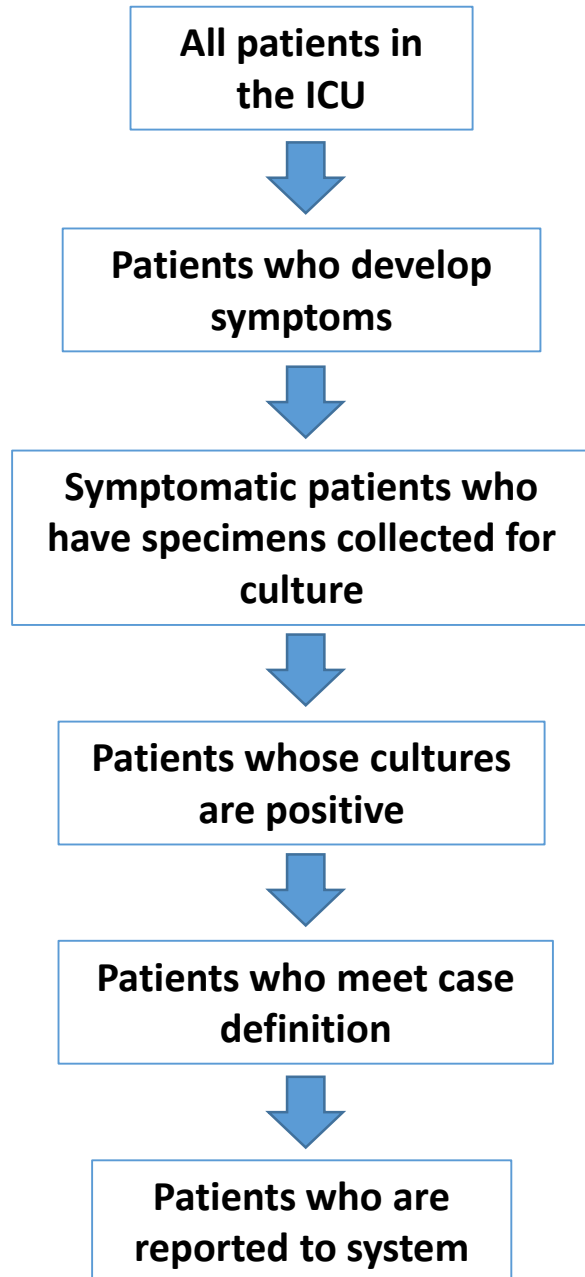
Assessing HAI Surveillance Data Quality

AIIMS/ICMR Site PI Meeting

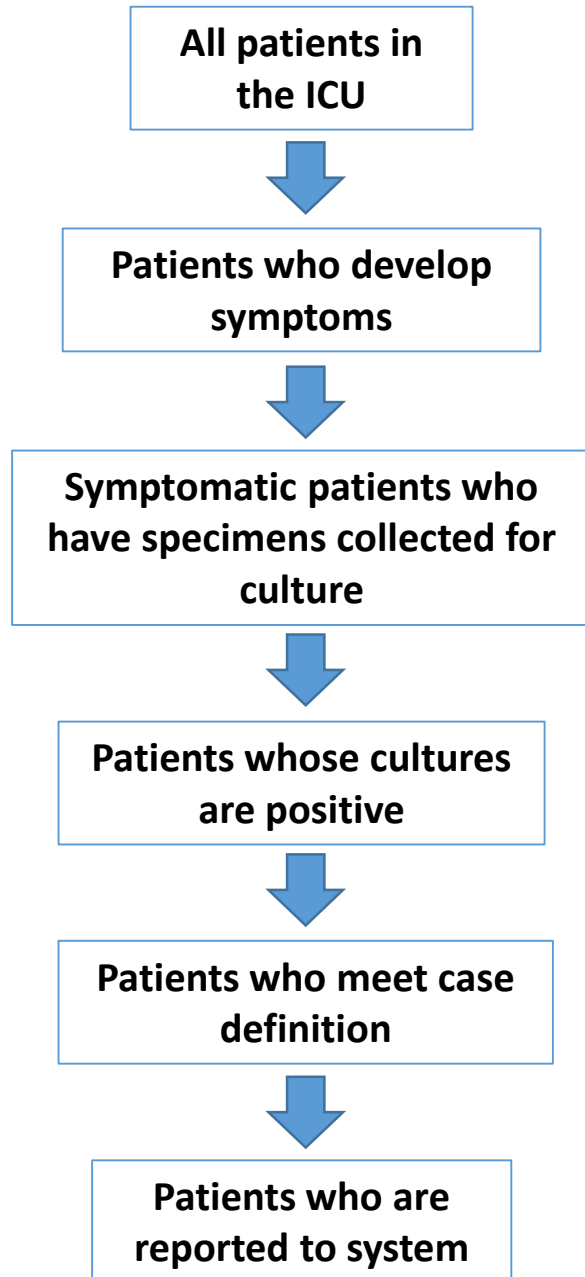
New Delhi

August 2018

HAI Surveillance – Process Flow

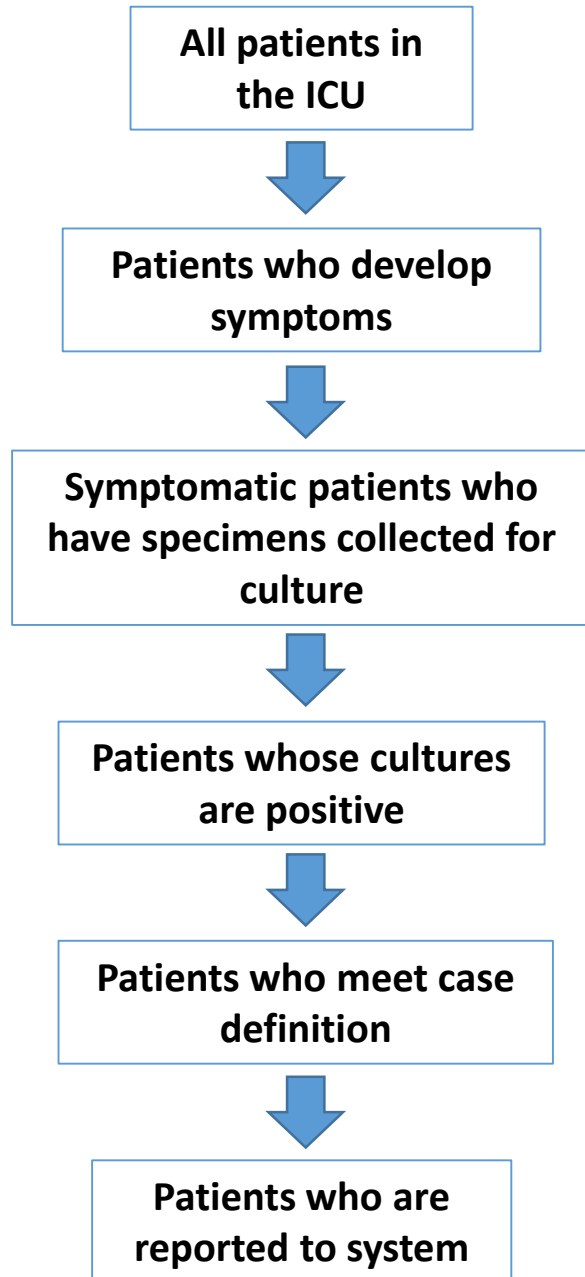


Potential Data Quality Issues



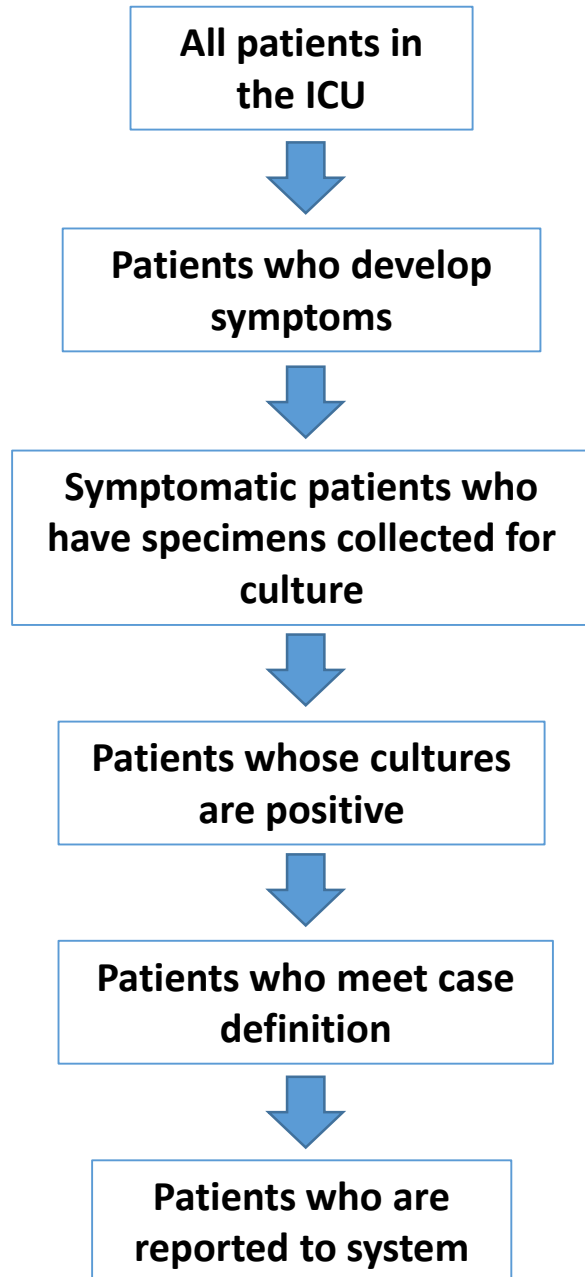
BSI and UTI case definitions require positive culture. If symptomatic patients are not cultured, they will not meet case definition.

Potential Data Quality Issues



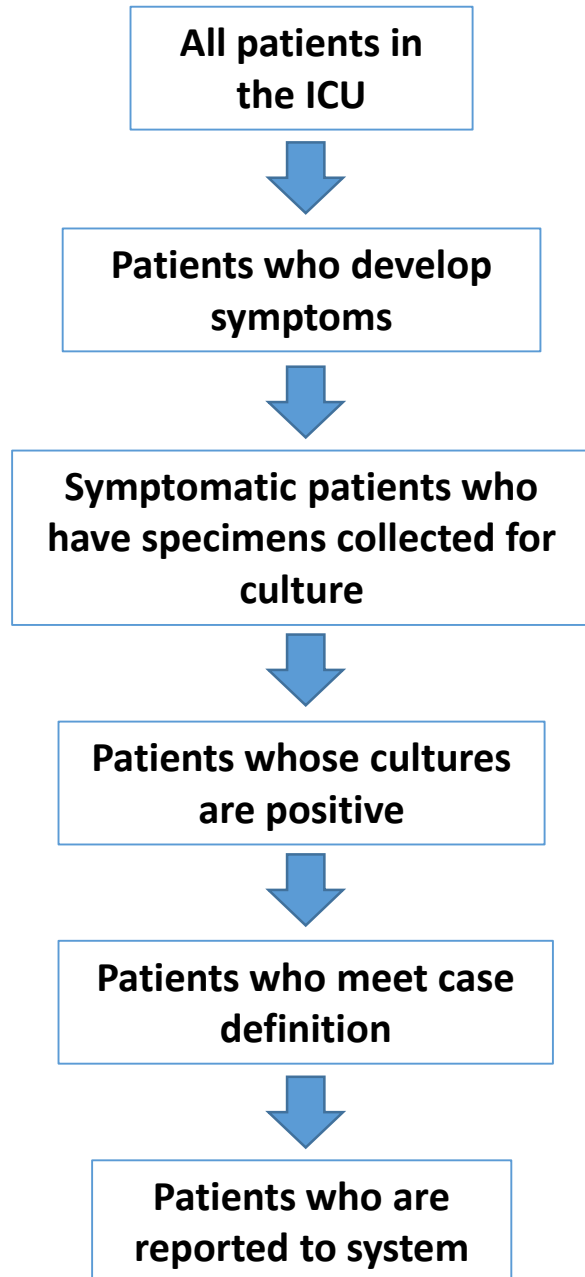
Surveillance team must have access to all positive blood and urine cultures from surveillance units.

Potential Data Quality Issues



Case definition must be applied correctly and consistently.

Potential Data Quality Issues



Data must be entered in the online reporting system accurately.

Structured Data Quality Assessment

- CDC worked with JPNATC team to create standard tools for assessing potential HAI surveillance data quality issues
- Future support visits will focus on assessing data quality using these standard assessment tools
- Results can help to contextualize surveillance data and identify areas needing improvement at hospital and network levels

HAI Surveillance Data Quality Tools

- Site visit discussion and feedback
 - Qualitative assessment that includes facility demographics, case finding practices and challenges, denominator collection practices, and analysis/use of surveillance data
- Tracking frequency of blood and urine culturing in febrile ICU patients
 - What proportion of patients with a “febrile episode” had blood and urine specimens sent for culture?
 - How does this align with the facility’s culturing guidelines?
- Monitoring completeness of blood and urine culture data
 - Has the surveillance team received all positive blood and urine cultures from ICUs under surveillance?

HAI Surveillance Data Quality Tools

- Assessing adherence to BSI and UTI case definitions
 - Have all positive blood and urine cultures been investigated to see if they meet the BSI/UTI case definitions?
 - Is the surveillance team applying the case definitions correctly?
 - Have they reported all episodes that meet the case definitions to the web-based reporting system?
 - What are the most common reasons why episodes do not meet the case definition?
- Ensuring accurate entry of HAI surveillance data
 - Are data entry operators correctly entering paper case report form data into the web-based reporting system?

Next Steps for HAI Surveillance Data Quality

- Additional visits to pilot data quality tools in 2018
 - Goal – reach all centres who have not had a support visit by end of October
- Wider assessment of data quality in 2019
 - Allow all centres to reach at least 9-12 months of experience with surveillance system, then look at data quality across the network
- Discuss opportunities to develop surveillance indicators to report routinely
 - Perhaps easier to sustain compared to assessments conducted purely during support visits