# Look at Laboratory Cultures (start with first positive blood culture)

## Was the culture on ICU day 3 or later (ICU admit date = Day 1)? This assumes the date of event is the day of the culture or later.

### If No, are there any other positive blood cultures?

#### If no, then stop. Go to next Medical Record.

#### If Yes, was the subsequent culture within the RIT window of the POA LCBI?

##### If yes, this is considered the same infection as the POA infection. Repeat Step I for subsequent positive blood cultures. If none, go to next Medical Record.

##### If no, go to Step I.B

### If Yes, go to Step I.B

## Was organism cultured a recognized pathogen?

### If No, Was the organism cultured a common commensal with 2 or more separate (defined as having different disinfection events) positive blood cultures drawn within 1 day of each other?

#### If No, this is not a CLABSI. Repeat Step I for subsequent blood cultures. If none, go to next Medical Record.

#### If Yes, Did patient have documented fever, chills or hypotension\* within the infection window? (\*see facility guidelines for definition)

##### If no, was the patient ≤ 1?

###### If No, this is not a CLABSI. Repeat Step I for subsequent blood cultures. If none, go to next Medical Record.

###### If Yes, Did the patient have documented hypothermia (<36 or 96.8), apnea\* or bradycardia\*?

If No, this is not a CLABSI. Repeat Step I for subsequent blood cultures. If none, go to next Medical Record.

If Yes, go to step II.

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# Evidence of CVC

## Did the patient have a CVC in place within the previous 4 days of the culture date (Day -4 with day of culture = day 0)

### If No, then stop. If no other positive blood cultures, go to the next Medical Record. If, subsequent blood cultures, repeat Step I.

### If Yes, was the CVC in place on the date of event or the day before?

#### If no, Stop. This is not a CLABSI. Repeat Step I for subsequent blood cultures. If none, go to next Medical Record.

#### If yes, Was the CVC in place for > 2 days?

##### If No, Stop. This is not a CLABSI. Repeat Step I for subsequent blood cultures. If none, go to next Medical Record.

##### If Yes, Go to Step III.

# Attributed to ICU

## Was the patient admitted to ICU on the day of the suspect CLABSI or the day before?

### If No, then go to Step IV.

### If Yes, then CLABSI is attributed to previous location and if previous location was not an ICU, this CLABSI is not reportable for Texas. If no other positive blood cultures, then go to next Medical Record. If others, repeat step I. If previous location was an ICU, continue to Step IV.

# Secondary to other Infection

## Is this positive blood related to an infection at another site? Is there a positive culture from a different source (wound/urine?)?

### If no, then go to Step V

### If Yes, Does the culture match the blood culture?

#### If NO, Is the blood isolate an element used to meet he site specific criterion for another infection (BURN, JNT, MEN, OREP, PNU2, PNU3, UMB, BONE, DISC, GIT, IAB, SA, USI, ENDO)?

##### If No, Repeat Step III for any other non-blood positive cultures. If no more are found, Go to Step V

##### If Yes, was it cultured within the Secondary BSI Attribution period (Infection Window + RIT)

###### If No, repeat Step III for any other non-blood positive cultures. If no more are found, Go to Step V

###### If Yes, this is probably a Secondary BSI (review chart to ensure that the “primary” HAI is not a repeat infection by looking for the same HAI within the previous 14 days.) Determine whether the related HAI (non-BSI) was reported to NHSN (review line list of reported infections) and recommend entering infection into NHSN if not already done so. Repeat Step III for any other non-blood positive cultures. If none found, Go to Next Medical Record.

#### If YES, Does the other infection meet NHSN case criteria?

##### If No, Repeat Step III for any other non-blood positive cultures. If no more are found, Go to Step V

##### If Yes, was it cultured within the Secondary BSI Attribution period (Infection Window + RIT)

###### If No, repeat Step III for any other non-blood positive cultures. If no more are found, Go to Step V

###### If Yes, this is probably a Secondary BSI (review chart to ensure that the “primary” HAI is not a repeat infection by looking for the same HAI within the previous 14 days.) Determine whether the related HAI (non-BSI) was reported to NHSN (review line list of reported infections) and recommend entering infection into NHSN if not already done so. Repeat Step III for any other non-blood positive cultures. If none found, Go to Next Medical Record.

# Possible Mucosal Barrier Injury

## Is the patient an allogenic hematopoietic stem cell transplant recipient in past year? Or is the patient neutropenic?

### If No, Stop. This is a CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility.

### If Yes, Which of these is it: Recognized Pathogen, Common Commensal in patient > 1 or a Common Commensal in patient ≤ 1?

#### Recognized Pathogen (MBI 1): Did the patient grow intestinal organisms with no other organisms isolated (bacteroides, candida, clostridium, enterococcus, fusobacterium, peptostreptococcus, prevotella, veillonella, enterobacteriacea)?

##### If No, Stop. This is a CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

##### If Yes, Did the patient meet either of the criterions below? 1. Allogenic hematopoietic stem cell transplant recipient with Grade III or IV GI graft vs host disease (GI GVHD) or ≥ 1 L (1000 grams) diarrhea in 24 hours with onset within infection window or 2. Neutropenic with at least 2 separate days with absolute neutrophil count (ANC) or total white blood cell count (WBC) > 500 cells/mm in infection window??

###### If yes, MBI CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

###### If no, CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

#### Common Commensal in Patient > 1 (MBI 2): Did blood grow viridans group streptococci and no other organisms isolated?

##### If No, Stop. This is a CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

##### If Yes, Did the patient meet either of the criterions below? 1. Allogenic hematopoietic stem cell transplant recipient with Grade III or IV GI graft vs host disease (GI GVHD) or ≥ 20ml/kg diarrhea in 24 hours with onset within infection window or 2. Neutropenic with at least 2 separate days with absolute neutrophil count (ANC) or total white blood cell count (WBC) > 500 cells/mm in infection window?

###### If yes, MBI CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

###### If no, CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

#### Common Commensal in patient ≤ 1 (MBI 3): Did blood grow viridans group streptococci and no other organisms isolated?

##### If No, Stop. This is a CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

##### If Yes, Did the patient meet either of the criterions below? 1. Allogenic hematopoietic stem cell transplant recipient with Grade III or IV GI graft vs host disease (GI GVHD) or ≥ 20ml/kg diarrhea in 24 hours with onset within infection window or 2. Neutropenic with at least 2 separate days with absolute neutrophil count (ANC) or total white blood cell count (WBC) > 500 cells/mm in infection window?

###### If yes, this is an MBI CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.

###### If no, this is a CLABSI. Determine whether this event was reported to NHSN. If not, document as a discrepancy and review with the facility. Repeat process for any other positive blood cultures. If none are found, Go to Next Medical Record.