

Analyzing MBI-LCBI CLABSI Data

Description

Facilities that report CLABSI data may wish to analyze which cases, and how many, were identified as Mucosal Barrier Injury Laboratory-Confirmed Bloodstream Infections (MBI-LCBI).

CLABSI rate tables and standardized infection ratios (SIRs) generated within NHSN will include all CLABSIs, regardless of which LCBI definition was met. Facilities can obtain information on which CLABSIs were MBI-LCBI by using the variable **mbi_lcbi** in event-level line lists and frequency tables.

Example

You have been following CLABSIs in your hematopoietic stem cell transplant ward (HSCT). Below is a snapshot of your CLABSI rate table for January 2013:

Org ID=10018 CDC Location=IN:ACUTE:WARD:ONC_HSCT

Location	Summary Year/Month	Perm CLA BSI Count	Perm Central Line Days	Perm CLA BSI Rate	NHSN PCLAB Pooled Mean	Incidence Density p-value #1	Incidence Density Percentile #1
HSCT	2013M01	1	150	6.667	2.4	0.3055	93

Location	Summary Year/Month	Temp CLA BSI Count	Temp Central Line Days	Temp CLA BSI Rate	NHSN TCLAB Pooled Mean	Incidence Density p-value #2	Incidence Density Percentile #2
HSCT	2013M01	3	175	17.143	2.3	0.0084	100

In order to see a detailed list of CLABSIs that were identified as MBI-LCBI, you can modify the “Line Listing – All CLAB Events” and include the variable **mbi_lcbi**. If you would like to see MBI-specific criteria and the reported organism, you can modify the “Line Listing – All Infection Events” within the Advanced output options folder and include the variables **cr_mbineutropenia**, **cr_mbiSCTwDiarr**, **cr_mbiSCTwGVHD**, and **pathogenDesc1**. For more information about running/modifying line lists in NHSN, please see: <http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/LineLists.pdf>

Event ID	Fac Admission Date	Event Date	Location	Event Type	Specific Event	MBI LCBI	Tunneled Central Line	Nontunneled Central Line
37558	12/29/2012	01/10/2013	HSCT	BSI	LCBI	Y	Y	N
37559	01/02/2013	01/25/2013	HSCT	BSI	LCBI	Y	Y	Y
37560	01/15/2013	01/20/2013	HSCT	BSI	LCBI	N	Y	Y
37148	01/03/2013	01/15/2013	HSCT	BSI	LCBI	Y	Y	Y

Frequency Col Pct	Table of mbi_lcbi by evtntDateYM		
	mbi_lcbi(MBI LCBI)	evtntDateYM(Event~Yr/Mon)	
		2013M01	Total
N		1	1
		25.00	
Y		3	3
		75.00	
Total		4	4

In order to obtain a count of how many CLABSIs were identified as MBI-LCBI, you can modify the “Frequency Table – All CLAB Events” and specify the variable **mbi_lcbi** as either the row variable or the column variable. The example frequency table to the left illustrates that 3 (75%) of the CLABSIs reported were identified as MBI-LCBI.

For more information about running/modifying frequency tables in NHSN, please see: <http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/FrequencyTables.pdf>