



## VALIDATION OF CENTRAL LINE ASSOCIATED BLOOD STREAM INFECTION (CLABSI)

### DATA IN SELECTED MAINE HOSPITALS:

#### Status Report --- September 2013

A team of experienced validation reviewers from John Snow, Inc. (JSI) was engaged to conduct an audit of 2012 CLABSI cases in ICU patients reported via the National Healthcare Safety Network. As requested by DHHS, JSI focused on 12 facilities considered Peer Groups A and B. The following table illustrates the facilities that have been completed, the validation approach, bed size and number of ICU's:

| <u>Facility</u>                                   | <u>Peer Group</u> | <u>Approach</u> | <u>Beds</u> | <u>ICUs</u> |
|---|-------------------|-----------------|-------------|-------------|
| Maine Medical Center - Portland                   | A                 | On-site         | 606         | 6           |
| Eastern Maine Medical Center - Bangor             | A                 | On-site         | 411         | 4           |
| Maine General Medical Center - Augusta/Waterville | A                 | On-site         | 304         | 2           |
| Central Maine Medical Center -Lewiston            | A                 | On-site         | 250         | 2           |
| St. Mary's Regional Medical center-Lewiston       | B                 | On-site         | 233         | 1           |
| Mercy Hospital-Portland                           | B                 | On-site         | 230         | 1           |
| Aroostock Medical Center -Presque Isle            | B                 | Remote          | 89          | 1           |
| Mid Coast Hospital- Brunswick                     | B                 | Remote          | 104         | 1           |
| Penobscott Bay Medical Center-Rockport            | B                 | Remote          | 109         | 1           |
| Sothern Maine Medical Center-Biddeford            | B                 | Remote          | 150         | 1           |
| St. Joseph's Hospital-Bangor                      | B                 | Remote          | 112         | 1           |
| York Hospital-York                                | B                 | Remote          | 79          | 1           |

These facilities were notified by letter and email, which confirmed the role of JSI and clarified the mandatory nature of the validation requirement. JSI staff signed confidentiality agreements for the facilities as requested.

JSI implemented the new *CDC Toolkit for Validation for 2012 Central Line-associated Bloodstream Infection (CLABSI) in ICUs*. Hospitals received instructions for providing microbiologic data used in CLABSI case identification. We arranged the necessary record access prior to arrival on-site, including electronic data system passwords. A survey concerning the methods of collecting denominator

data (central line days) was completed by the hospitals for each ICU; the survey tool was part of the CDC Toolkit and establishes the accuracy of this critical data element.

The JSI validation team has completed all on-site and remote data collection/chart review, typically involving 40 to 60 patient records per hospital. Large facilities with multiple ICUs had more records audited. Overall accuracy of CLABSI reporting was very good. A small number of unreported cases were identified and discussed with the hospitals; the missed cases have now been added to NHSN reports by the hospitals involved.

JSI is currently completing the analysis of the audit findings and denominator survey. We will summarize the findings and present the overall validation results in a report. Expected completion date of the report is October 15.

Please submit any questions regarding the CLABSI Validation Project in Maine to Laureen Kunches PhD, MPH, MSN ([lkunches@jsi.com](mailto:lkunches@jsi.com)) or call 617-482-9485.