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# ***Virginia Department of Health Office of Epidemiology***

## ***Healthcare-Associated Infections Report July 1, 2011 - September 30, 2011***

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Effective July 1, 2008, all acute care hospitals in Virginia were mandated by state law to make information on healthcare-associated (e.g., nosocomial) infections reportable to the Centers for Disease Control and Prevention (CDC). Virginia regulations state that all acute care hospitals shall collect and report data on central line-associated bloodstream infections (CLABSIs) in adult intensive care units (ICUs). The results of reporting may be released to the public by the Virginia Department of Health (VDH) upon request.

This report includes information on CLABSIs that occurred in adult intensive care units in Virginia hospitals within the date range given at the top of this report.

Data on healthcare-associated infections is provided for each of Virginia's 77 acute care or critical access hospitals that have at least one adult intensive care unit. Hospitals in this report are categorized by the number of licensed hospital beds.

This report is useful for measuring individual hospital performance over time. The information can also help consumers ask physicians and hospital representatives informed questions about infection control and prevention. You are encouraged to contact your healthcare facility or visit their web site to learn more about their infection prevention program.

Additional details about this report can be obtained by contacting VDH, Office of Epidemiology, at (804) 864-8141 or via e-mail at [epi-comments@vdh.virginia.gov](mailto:epi-comments@vdh.virginia.gov).

## Definitions

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### **Bedsized:**

Number of licensed beds for a facility according to the Virginia Department of Health's Office of Licensure and Certification as of January 2011. Bedsized is used to categorize hospitals into three tiers (less than or equal to 200 beds, 201-500 beds, and over 500 beds) to attempt to group facilities with similar characteristics together.

### **Central Line-Associated Bloodstream Infection (CLABSI) Rate:**

The central line-associated bloodstream infection rate refers to the number of bloodstream infections per 1,000 central line days. Hospital data includes adult intensive care unit patients with a central line who developed an infection.

### **Healthcare-Associated Infection:**

A healthcare-associated infection is an infection that was not present or incubating at the time of admission to the hospital. Infections included in this report meet specific criteria developed by the Centers for Disease Control and Prevention.

### **Central Line:**

A central line is a flexible tube that is inserted near the patient's heart or into one of the large veins or arteries. The device can be used to give fluids, measure the amount of fluid in the body or to give medications. Because of the location, it can cause potentially serious bloodstream infections.

### **Central Line Days:**

The numbers of days central lines are in place for patients in an ICU. They are counted each day; each patient with one or more central lines at the time the count is performed is counted as one central line day.

### **Intensive Care Unit (ICU):**

An intensive care unit (ICU) is a type of hospital unit where patients dealing with, or at risk of developing, life threatening conditions are provided intensive observation and treatment. ICUs are described by the types of patients in them; smaller hospitals typically care for both medical and surgical patients in a medical/surgical ICU, while larger hospitals may have many ICUs.

## **Central Line-Associated Bloodstream Infection (CLABSI) Rate**

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The central line-associated bloodstream infection (CLABSI) rate is the number of infections per 1,000 central line days. The infection rates are categorized by the number of licensed beds in a given hospital.

The hospital CLABSI rate is a combination of all of the adult ICUs for a particular hospital. For a given bedsize category, hospitals are combined to provide a Virginia statewide infection rate.

### **Important information to consider when interpreting the information presented in the following tables.**

- One single source of information should not be used to determine the overall quality of a hospital.
  - Consider the advice of your physician and other sources of information when deciding where to receive care.
  - A patient's age, underlying diseases, and severity of illness may increase their risk for infection.
  - Hospitals that treat more complex patients with greater risk of infection may have higher rates.
  - A higher rate of infection may indicate a true problem or simply better surveillance. Sometimes high rates are based on small numbers, so both the number and the rate should be reviewed. A lower rate may reflect fewer infections or different levels of infection surveillance.
  - Small numbers of infections, central lines used, and patients in a particular intensive care unit may make it difficult to compare one hospital to another.
  - All hospitals are required to use the definitions for healthcare-associated infections developed by the CDC and enter the data into the National Healthcare Safety Network.
  - Infections are identified by trained hospital staff and reported directly to the CDC.
  - In 2010, half of Virginia hospitals participated in a CLABSI validation project conducted by VDH and the Virginia Hospital Healthcare Association (VHHA). Results demonstrated that the hospitals randomly selected for audit were very accurate and consistent in their application of the CLABSI definitions for the time period under review (January to June 2010).
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**Central Line-Associated Bloodstream Infections (CLABSIs)  
Reported by Facilities in Virginia with Adult Intensive Care Units,  
by Bedsize Category  
Quarter 3, 2011**

| <b>Facility Name</b>                         | <b>Composite*</b> | <b>Number of<br/>CLABSIs</b> | <b>Central<br/>Line Days</b> | <b>CLABSI Rate (per 1,000<br/>Central Line Days)**</b> |
|--|-------------------|------------------------------|------------------------------|--|
| <i>≤200 Licensed Beds</i>                    |                   |                              |                              |  |
| Bon Secours Mary Immaculate Hospital         |                   | 0                            | 156                          | 0  |
| Bon Secours Richmond Community Hospital      |                   | 0                            | 46                           | 0  |
| Bon Secours St. Francis Medical Center       |                   | 0                            | 323                          | 0  |
| Buchanan General Hospital                    |                   | 0                            | 4                            | 0  |
| Carilion Bedford Memorial Hospital           |                   | 0                            | 38                           | 0  |
| Carilion Franklin Memorial Hospital          |                   | 0                            | 47                           | 0  |
| Carilion Giles Memorial Hospital             |                   | 0                            | 15                           | 0  |
| Carilion New River Valley Medical Center     |                   | 0                            | 103                          | 0  |
| Carilion Stonewall Jackson Hospital          |                   | 0                            | 9                            | 0  |
| Clinch Valley Medical Center                 |                   | 1                            | 18                           | 55.56  |
| Culpeper Regional Hospital                   |                   | 0                            | 62                           | 0  |
| Fauquier Hospital                            |                   | 2                            | 384                          | 5.21   |
| Halifax Regional Hospital                    |                   | 0                            | 221                          | 0  |
| INOVA Fair Oaks Hospital                     |                   | 1                            | 313                          | 3.19   |
| INOVA Loudoun Hospital                       |                   | 0                            | 434                          | 0  |
| John Randolph Medical Center                 |                   | 0                            | 184                          | 0  |
| Johnston Memorial Hospital                   |                   | 0                            | 137                          | 0  |
| Lee Regional Medical Center                  |                   | 0                            | 18                           | 0  |
| LewisGale Hospital Alleghany                 | yes               | 0                            | 94                           | 0  |
| LewisGale Hospital Montgomery                |                   | 0                            | 98                           | 0  |
| LewisGale Hospital Pulaski                   |                   | 0                            | 83                           | 0  |
| Martha Jefferson Hospital                    |                   | 0                            | 257                          | 0  |
| MountainView Regional Medical Center         |                   | 0                            | 55                           | 0  |
| Norton Community Hospital                    |                   | 0                            | 91                           | 0  |
| Parham Doctors' Hospital                     |                   | 1                            | 174                          | 5.75   |
| Prince William Hospital                      |                   | 0                            | 396                          | 0  |
| Rappahannock General Hospital                |                   | 0                            | 28                           | 0  |
| Reston Hospital Center                       | yes               | 0                            | 867                          | 0  |
| Riverside Tappahannock Hospital              |                   | 0                            | 44                           | 0  |
| Riverside Walter Reed Hospital               |                   | 0                            | 324                          | 0  |
| Russell County Medical Center                |                   | 0                            | 27                           | 0  |
| Sentara Obici Hospital                       |                   | 0                            | 311                          | 0  |
| Sentara Potomac Hospital                     |                   | 0                            | 326                          | 0  |
| Sentara Princess Anne Hospital               |                   | 1                            | 472                          | 2.12   |
| Sentara Williamsburg Regional Medical Center |                   | 0                            | 163                          | 0  |
| Shenandoah Memorial Hospital                 |                   | 0                            | 17                           | 0  |
| Shore Memorial Hospital                      |                   | 0                            | 106                          | 0  |
| Smyth County Community Hospital              |                   | 0                            | 98                           | 0  |
| Southern Virginia Regional Medical Center    |                   | --                           | --                           | Data Not Available                                     |
| Southside Community Hospital                 |                   | 0                            | 61                           | 0  |
| Spotsylvania Regional Medical Center         |                   | 0                            | 98                           | 0  |
| Stafford Hospital Center                     |                   | 0                            | 104                          | 0  |
| Twin County Regional Hospital                |                   | 0                            | 94                           | 0  |

| <i>Facility Name</i>                                       | <i>Composite*</i> | <i>Number of CLABSIs</i> | <i>Central Line Days</i> | <i>CLABSI Rate (per 1,000 Central Line Days)**</i> |
|--|-------------------|--------------------------|--------------------------|--|
| Warren Memorial Hospital                                   |                   | 0                        | 17                       | 0  |
| Wellmont Lonesome Pine Hospital                            |                   | 0                        | 3                        | 0  |
| Wythe County Community Hospital                            |                   | 0                        | 17                       | 0  |
| <i>Statewide Totals and Rate for this Bedsize Category</i> |                   | 6                        | 6,937                    | 0.86   |

### *201 - 500 Licensed Beds*

|  |     |    |        |      |
|--|-----|----|--------|------|
| Augusta Medical Center                                     |     | 0  | 283    | 0    |
| Bon Secours DePaul Medical Center                          |     | 0  | 401    | 0    |
| Bon Secours Maryview Medical Center                        | yes | 2  | 586    | 3.41 |
| Bon Secours Memorial Regional Medical Center               |     | 0  | 814    | 0    |
| Bon Secours St. Mary's Hospital                            | yes | 3  | 1,250  | 2.4  |
| Chesapeake Regional Medical Center                         |     | 0  | 1,145  | 0    |
| Community Memorial Health Center                           |     | 0  | 49     | 0    |
| Danville Regional Medical Center                           |     | 1  | 428    | 2.34 |
| Henrico Doctors' Hospital - Forest                         | yes | 4  | 1,105  | 3.62 |
| INOVA Alexandria Hospital                                  | yes | 0  | 1,262  | 0    |
| INOVA Mount Vernon Hospital                                |     | 1  | 361    | 2.77 |
| Mary Washington Hospital                                   | yes | 0  | 1,187  | 0    |
| Memorial Hospital of Martinsville & Henry County           |     | 0  | 260    | 0    |
| Retreat Doctors' Hospital                                  |     | 1  | 145    | 6.9  |
| Rockingham Memorial Hospital                               |     | 0  | 465    | 0    |
| Sentara CarePlex Hospital                                  |     | 0  | 726    | 0    |
| Sentara Leigh Hospital                                     |     | 0  | 588    | 0    |
| Sentara Virginia Beach General Hospital                    | yes | 1  | 2,019  | 0.5  |
| Southampton Memorial Hospital                              |     | 0  | 30     | 0    |
| Southside Regional Medical Center                          |     | 1  | 513    | 1.95 |
| Virginia Hospital Center                                   | yes | 0  | 498    | 0    |
| Winchester Medical Center                                  | yes | 0  | 1,163  | 0    |
| <i>Statewide Totals and Rate for this Bedsize Category</i> |     | 14 | 15,278 | 0.92 |

### *>500 Licensed Beds*

|  |     |    |        |      |
|--|-----|----|--------|------|
| Carilion Roanoke Memorial Hospital                         | yes | 7  | 2,361  | 2.96 |
| Centra Health  | yes | 2  | 1,229  | 1.63 |
| HCA CJW Medical Center                                     | yes | 3  | 2,991  | 1    |
| INOVA Fairfax Hospital                                     | yes | 7  | 3,863  | 1.81 |
| LewisGale Medical Center                                   | yes | 1  | 853    | 1.17 |
| Riverside Regional Medical Center                          | yes | 0  | 1,054  | 0    |
| Sentara Norfolk General Hospital                           | yes | 2  | 3,475  | 0.58 |
| University of Virginia Health System                       | yes | 4  | 3,186  | 1.26 |
| VCU Health System  | yes | 12 | 4,720  | 2.54 |
| <i>Statewide Totals and Rate for this Bedsize Category</i> |     | 38 | 23,732 | 1.6  |

\* Composite indicates facilities with more than one adult intensive care unit where the number of central line-associated blood stream infections and central line days are totals for the facility for the period..

\*\* CLABSI Rate = (Number of CLABSI) / (Central Line Days) x 1,000

Data Not Available: Data may not be available from a facility because the facility has not yet joined the National Healthcare Safety Network (NHSN) that is used to report CLABSIs to VDH, a facility may have joined NHSN but has not yet conferred rights for VDH to see the data, or a facility may not have entered data for the reporting period into NHSN.