



*DELAWARE HEALTH AND SOCIAL SERVICES*

Division of Public Health

Bureau of Epidemiology

**Central Line Associated Bloodstream (CLABSI) Rates and  
Utilization in Intensive Care Units, Delaware  
April - June, 2010**

Delaware Health and Social Services  
Division of Public Health  
Health Promotion and Disease Prevention  
Bureau of Epidemiology

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Notes:

For a full description of the background and methodology for this report, please refer to Delaware Hospital Infection Reporting Data: 2008, which can be found at the following website:

[http://www.dhss.delaware.gov/dhss/dph/dpc/files/hai\\_report\\_2008\\_final.pdf](http://www.dhss.delaware.gov/dhss/dph/dpc/files/hai_report_2008_final.pdf)

The data in this report was accurate at the time prepared and does not reflect updates based on hospital findings that may have occurred subsequently.

**Central Line Associated Bloodstream (CLABSI) Rates in Intensive Care Units, Delaware, 2<sup>nd</sup> Quarter (April-June) 2010 and as reported by the National Health Safety Network (2006-2008)**

<b>Hospital</b>	<b>Number of Infections</b>	<b>Number of Central Line days<sup>1</sup></b>	<b>Hospital CLABSI Rate/1000<sup>2</sup></b>	<b>NHSN CLABSI Rate/1000<sup>3</sup></b>	<b>CLABSI Rate Percentile<sup>4</sup></b>	<b>p value<sup>5</sup></b>	<b>Interpretation<sup>6</sup></b>
A. I. duPont Hospital for Children	0	587	0.0	3.0	10%	0.17645	Rate is not statistically different than NHSN rate
Christiana Care Health System-Christiana Hospital	6	996	6.0	2.6	92%	0.0460	Rate is significantly higher than NHSN rate
Christiana Care Health System – Wilmington Hospital	2	269	7.4	2.1	98%	0.1112	Rate is not statistically different than NHSN rate
St. Francis Hospital	3	476	6.3	1.9	96%	0.0632	Rate is not statistically different than NHSN rate
BayHealth Medical Center – Kent General Hospital	0	372	0.0	1.5	50%	0.5732	Rate is not statistically different than NHSN rate
BayHealth Medical Center – Milford Memorial Hospital	0	297	0.0	1.5	50%	0.6413	Rate is not statistically different than NHSN rate
Beebe Medical Center	2	572	3.5	1.5	88%	0.2113	Rate is not statistically different than NHSN rate
Nanticoke Memorial Hospital	1	332	3.0	1.5	84%	0.3914	Rate is not statistically different than NHSN rate

<sup>1</sup> The total number of days of exposure to the device (central line) by all of the patients in the selected population (ICU) during the selected time period (2008).

<sup>2</sup> (Infections/device-days) x 1000

<sup>3</sup> Rate for all participating NHSN hospitals of that location type (the patient care area to which a patient is assigned while receiving care while in the facility).

<sup>4</sup> An estimate of where the local facility rate falls on the distribution of the rate for all NHSN facilities of that type of location. For example, a percentile of 75% means that 75% of NHSN hospitals were below this rate. There is no percentile ranking for comparison of the hospitals that participate below the 50<sup>th</sup> percentile.

<sup>5</sup> The probability value from a significance test comparing the local hospital to the NHSN aggregate rate.

<sup>6</sup> Significance criteria is p<0.05 (95% confidence)

**Central Line Utilization Rates in Intensive Care Units, Delaware, 2nd Quarter  
(April-June) 2010 and as reported by the National Health Safety Network (2006-  
2008)**

<b>Hospital</b>	<b>Number of Central Line days<sup>7</sup></b>	<b>Number of Patient days<sup>8</sup></b>	<b>Utilization Ratio<sup>9</sup></b>	<b>NHSN Utilization Ratio<sup>10</sup></b>	<b>Utilization Ratio Percentile<sup>11</sup></b>	<b>P value<sup>12</sup></b>	<b>Interpretation<sup>13</sup></b>
A. I. duPont Hospital for Children	587	1221	0.48	0.48	67%	0.4782	Utilization ratio is not statistically different than NHSN ratio
Christiana Care Health System Christiana	996	1564	0.64	0.61	44%	0.0211	Utilization ratio is significantly higher than NHSN ratio
Christiana Care Health System – Wilmington Hospital	269	423	0.64	0.59	54%	0.0414	Utilization ratio is significantly higher than NHSN ratio
St. Francis Hospital	476	854	0.56	0.45	79%	0.0000	Utilization ratio is significantly higher than NHSN ratio
BayHealth Medical Center – Kent General Hospital	372	975	0.38	0.39	59%	0.3210	Utilization ratio is not statistically different than NHSN ratio
BayHealth Medical Center – Milford Memorial Hospital	297	629	0.47	0.39	75%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Beebe Medical Center	572	870	0.66	0.39	92%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Nanticoke Memorial Hospital	332	565	0.59	0.39	87%	0.0000	Utilization ratio is significantly higher than NHSN ratio

<sup>7</sup> The total number of days of exposure to the device (central line) by all of the patients in the selected population (ICU) during the selected time period (2008).

<sup>8</sup> The total number of days that patients are in the location during the selected time period.

<sup>9</sup> Central line days/patient days

<sup>10</sup> Ratio for all participating NHSN hospitals of that location type (the patient care area to which a patient is assigned while receiving care while in the facility).

<sup>11</sup> An estimate of where the local facility ratio falls on the distribution of the ratio for all facilities of that type of location. For example, a percentile of 75% means that 75% of NHSN hospitals were below this ratio. There is no percentile ranking for comparison of the hospitals that participate below the 50<sup>th</sup> percentile.

<sup>12</sup> The probability value from a significance test comparing the local hospital to the NHSN aggregate ratio.

<sup>13</sup> Significance criteria is p<0.05 (95% confidence)