



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 2009**

Note: 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

Central Line Associated Bloodstream (CLABSI) Rates in Intensive Care Units, Delaware, 2nd Quarter 2009 (April – June) and as reported by the National Health Safety Network (2006-2007)

Hospital	Number of Infections	Number of Central Line days¹	Hospital CLABSI Rate/1000²	NHSN CLABSI Rate/1000³	CLABSI Rate Percentile⁴	p value⁵	Interpretation⁶
A. I. duPont Hospital for Children	0	1154	0.0	2.9	25%	0.0365	Rate is significantly lower than NHSN rate
Christiana Care Health System-Christiana Hospital	3	1122	2.7	2.4	62%	0.4933	Rate is not statistically different than NHSN rate
Christiana Care Health System – Wilmington Hospital	4	370	10.8	1.5	100%	0.0024	Rate is significantly higher than NHSN rate
St. Francis Hospital	Not Reporting	Not Reporting	Not Reporting	2.4	--	--	--
BayHealth Medical Center – Kent General Hospital	1	511	2.0	1.5	75%	0.5275	Rate is not statistically different than NHSN rate
BayHealth Medical Center – Milford Memorial Hospital	0	197	0.0	1.5	25%	0.7490	Rate is not statistically different than NHSN rate
Beebe Medical Center	1	475	2.1	1.5	76%	0.5019	Rate is not statistically different than NHSN rate
Nanticoke Memorial Hospital	0	325	0.0	1.5	25%	0.6207	Rate is not statistically different than NHSN rate

¹ 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).

² (Infections/device-days) x 1000

³ 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).

⁴ 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.

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

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

**Central Line Utilization Rates in Intensive Care Units, Delaware, 2nd Quarter
(April-June) 2009 and as reported by the National Health Safety Network
(2006-2007)**

Hospital	Number of Central Line days⁷	Number of Patient days⁸	Utilization Ratio⁹	NHSN Utilization Ratio¹⁰	Utilization Ratio Percentile¹¹	P value¹²	Interpretation¹³
A. I. duPont Hospital for Children	1154	1402	0.82	0.46	96%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Christiana Care Health System Christiana	1122	1631	0.69	0.58	78%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Christiana Care Health System – Wilmington Hospital	370	496	0.75	0.46	91%	0.0000	Utilization ratio is significantly higher than NHSN ratio
St. Francis Hospital	Not Reporting	Not Reporting	Not Reporting	0.58	--	--	--
BayHealth Medical Center – Kent General Hospital	511	1021	0.50	0.46	64%	0.0101	Utilization ratio is significantly higher than NHSN ratio
BayHealth Medical Center – Milford Memorial Hospital	197	510	0.39	0.46	47%	0.0003	Utilization ratio is significantly lower than NHSN ratio
Beebe Medical Center	475	829	0.57	0.46	80%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Nanticoke Memorial Hospital	325	503	0.65	0.46	80%	0.0000	Utilization ratio is significantly higher than NHSN ratio

⁷ 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).

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

⁹ Central line days/patient days

¹⁰ 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).

¹¹ 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.

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

¹³ Significance criteria is $p < 0.05$ (95% confidence)