



DELAWARE HEALTH AND SOCIAL SERVICES

Division of Public Health

Bureau of Epidemiology

**Central Line Associated Bloodstream Infection (CLABSI) Rates and Utilization
Delaware Intensive Care Units
October - December, 2010**

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

March 2011

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

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 Infection (CLABSI) Rates in Intensive Care Units
Delaware, 4th Quarter (October - December) 2010** (Delaware statistics)
And as reported by the National Health Safety Network (2006 – 2008) (NHSN statistics)

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	2	842	2.4	3.0	48%	0.5467	Rate is not statistically different than NHSN rate
Christiana Care Health System-Christiana Hospital	1	1192	0.8	2.6	21%	0.1902	Rate is not statistically different than NHSN rate
Christiana Care Health System – Wilmington Hospital	0	265	0.0	2.1	10%	0.5720	Rate is not statistically different than NHSN rate
St. Francis Hospital	1	140	7.1	1.9	98%	0.2331	Rate is not statistically different than NHSN rate
BayHealth Medical Center – Kent General Hospital	0	464	0.0	1.5	50%	0.4995	Rate is not statistically different than NHSN rate
BayHealth Medical Center – Milford Memorial Hospital	0	158	0.0	1.5	50%	0.7895	Rate is not statistically different than NHSN rate
Beebe Medical Center	0	308	0.0	1.5	50%	0.6308	Rate is not statistically different than NHSN rate
Nanticoke Memorial Hospital	1	323	3.1	1.5	85%	0.3832	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 (October – December 2010).

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 criterion is p<0.05 (95% confidence)

**Central Line Utilization Ratios in Intensive Care Units,
Delaware, 4th Quarter (October - December) 2010** (Delaware statistics)
And as reported by the National Health Safety Network (2006 – 2008) (NHSN statistics)

Hospital	Number of Central Line days ⁷	Number of Patient days ⁸	Utilization Ratio ⁹	NHSN Utilization Ratio ¹⁰	Utilization Ratio Percentile ¹¹	P value ¹²	Interpretation ¹³
A. I. duPont Hospital for Children	842	1481	0.57	0.48	83%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Christiana Care Health System Christiana	1192	1667	0.72	0.61	68%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Christiana Care Health System – Wilmington Hospital	265	456	0.58	0.59	54%	0.3149	Utilization ratio is not significantly different than NHSN ratio
St. Francis Hospital	140	288	0.49	0.45	62%	0.1349	Utilization ratio is not significantly different than NHSN ratio
BayHealth Medical Center – Kent General Hospital	464	985	0.47	0.39	75%	0.0000	Utilization ratio is significantly higher than NHSN ratio
BayHealth Medical Center – Milford Memorial Hospital	158	498	0.32	0.39	43%	0.0006	Utilization ratio is significantly lower than NHSN ratio
Beebe Medical Center	308	496	0.62	0.39	87%	0.0000	Utilization ratio is significantly higher than NHSN ratio
Nanticoke Memorial Hospital	323	549	0.59	0.39	87%	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 (October – December 2010).

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 criterion is $p < 0.05$ (95% confidence)