

Table 1. Comparison of National and Pennsylvania Central Line-Associated Bloodstream Infection Rates*

	NATIONAL HEALTHCARE SAFETY NETWORK (NHSN), 2006 THROUGH 2008†,1					PENNSYLVANIA, JULY 2008 THROUGH MARCH 2009‡				
	Patient Days	No. of CLABSI	Central Line Days	CLABSI Rate§	Central Line Utilization€	Patient Days	No. of CLABSI	Central Line Days	CLABSI Rate§	Central Line Utilization€
Critical Care Units										
Burn	126,826	390	70,932	5.5	0.56	8,546	17	4,301	4.0	0.50
Medical	1,699,768	2,097	911,476	2.3	0.54	104,777	90	57,174	1.6	0.55
Medical cardiac	1,096,749	876	436,409	2.0	0.40	81,743	43	27,417	1.6	0.34
Medical/surgical	5,073,058	4,053	244,1719	1.7	0.48	330,898	250	149,840	1.7	0.45
Neonatal intensive care unit level II and III	1,893,787	870	349,263	2.5	0.18	190,060	120	45,196	2.7	0.24
Neurologic	100,840	61	45,153	1.4	0.45	14,308	10	6,915	1.4	0.48
Neurosurgical	362,881	396	160,879	2.5	0.44	29,283	20	13,694	1.5	0.47
Pediatric cardiothoracic	95,130	195	58,626	3.3	0.62	14,696	28	6,982	4.0	0.48
Pediatric medical	43,797	23	17,321	1.3	0.40	1,587	1	525	1.9	0.33
Pediatric medical/surgical	655,402	929	314,306	3.0	0.48	23,511	50	13,997	3.6	0.60
Respiratory	29,520	29	17,223	1.7	0.58	6,380	11	3,462	3.2	0.54
Surgical	1,230,430	1,683	729,989	2.3	0.59	54,123	57	36,301	1.6	0.67
Surgical cardiothoracic	893,084	879	632,769	1.4	0.71	76,362	54	50,541	1.1	0.66
Trauma	354,494	814	224,864	3.6	0.63	38,366	41	25,927	1.6	0.68
Totals	20,428,592	19,445	9,764,124	2.0	0.48	974,640	792	442,272	1.8	0.45
Inpatient Wards										
Adult step down	793,149	299	141,374	2.1	0.18	438,472	80	61,657	1.3	0.14
Behavioral health/psychiatric	83,545	0	1,803	0.0	0.02	519,564	0	1,604	0.0	0.00
Genitourinary	57,237	22	16,902	1.3	0.30	15,861	1	3,071	0.3	0.19
Gerontology	18,567	4	2,674	1.5	0.14	9,530	3	1,326	2.3	0.14
Gynecology	60,466	6	5,694	1.1	0.09	17,735	1	1,857	0.5	0.10
Labor and delivery/recovery	25,892	0	810	0.0	0.03	112,335	0	357	0.0	0.00
Medical	1,408,507	422	278,221	1.5	0.20	766,481	157	140,819	1.1	0.18
Medical/surgical	3,839,045	733	618,196	1.2	0.16	2,211,320	327	280,162	1.2	0.13
Neurologic	69,343	8	10,723	0.7	0.15	25,384	2	2,560	0.8	0.10
Neurosurgical	83,780	12	13,866	0.9	0.17	41,521	3	6,488	0.5	0.16
Nursery I & II	9,197	2	1,516	1.3	0.16	123,390	1	335	3.0	0.00
Orthopedic	343,273	32	40,425	0.8	0.12	199,385	9	15,920	0.6	0.08
Pediatric medical	59,826	18	10,232	1.8	0.17	48,499	17	8,170	2.1	0.17
Pediatric medical/surgical	165,571	102	32,581	3.1	0.20	89,891	20	9,129	2.2	0.10
Postpartum	67,780	0	943	0.0	0.01	189,550	0	579	0.0	0.00
Rehabilitation	570,671	39	47,052	0.8	0.08	470,420	21	31,779	0.7	0.07
Surgical	664,399	189	132,336	1.4	0.20	361,418	49	62,548	0.8	0.17
Vascular surgery	50,079	13	11,345	1.1	0.23	14,627	0	2,055	0.0	0.14
Totals	8,370,327	1,901	1,366,693	1.4	0.16	5,655,383	691	630,416	1.1	0.11
Long-Term Care Units	63,417	6	6,030	1.0	0.10	5,022	1	795	1.3	0.16

* The Pennsylvania care locations included in rate calculation were limited to those locations also published in the NHSN data summary.

† NHSN data summary for 2006 through 2008.

‡ Authority analysis of Pennsylvania CLABSI reports to NHSN from July 2008 through March 2009.

§ CLABSI rate: number of CLABSIs / number of line days x 1,000.

€ Device utilization rate: number of line days / number patient days.

Note

1. Edwards JR, Peterson KD, Andrus ML. National Healthcare Safety Network (NHSN) report, data summary for 2006 through 2008. *Am J Infect Control* 2009 Dec;37(10):783-805.