

# Table of Surgical Site Infection Rates, by Type of Procedure and Depth of Infection, 2013 <sup>1, 2, 3</sup>

October 8, 2014 download of January 2013 – December 2013 NHSN data

Hospitals	Type of Surgical Procedure <sup>4</sup>																																											
	Abdominal Hysterectomy			Colon Surgery			Coronary Artery Bypass Graft <sup>5</sup>						Heart Surgery			Hip Replacement <sup>5</sup>						Knee Replacement <sup>5</sup>																						
							Chest and Secondary Incision Site		Chest Incision Only		Overall					Initial		Revision		Overall		Initial		Revision		Overall																		
	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate	No. of Procedures	Deep Rate	Total Rate															
Capital Medical Center	0.00	3.45	29	0.00	0.00	64																							0.00	0.55	182	0.00	0.00	25	0.00	0.48	0.00	0.00	169	4.17	4.17	24	0.52	0.52
Cascade Valley Hospital	0.00	0.00	2	2.63	2.63	38																							0.00	0.00	26	-	-	0	0.00	0.00	0.00	0.00	41	0.00	0.00	1	0.00	0.00
Central Washington Hospital <sup>14</sup>	0.00	0.00	3	5.68*	10.23*	176*	0.86	4.31	116	0.00	0.00	8	0.81	4.03	0.00	1.10	91	1.23	1.23	244	0.00	0.00	22	1.13	1.13	0.00	0.49	406	3.85	3.85	26	0.23	0.69											
Coulee Medical Center	0.00	0.00	11	0.00	0.00	2																																						
Deaconess Medical Center <sup>18</sup>	0.99	0.99	101	5.04	8.63	139	3.49	6.98	86	0.00	0.00	25	2.70	5.41	0.00	0.00	52	0.49	1.47	204	5.00	5.00	20	0.89	1.79	0.52	0.52	191	4.00	4.00	25	0.93	0.93											
Evergreen Healthcare	0.00	1.24	161	4.84	6.45	62																							0.44	0.88	228	0.00	0.00	14	0.41	0.83	0.00	0.00	450	2.70	2.70	37	0.21	0.21
Forks Community Hospital	-	-	0																										0.00	0.00	2	-	-	0	0.00	0.00	0.00	0.00	6	-	-	0	0.00	0.00
Grays Harbor Community Hospital <sup>6</sup>	4.76	4.76	21	0.00	0.00	24																							0.00	2.38	42	0.00	0.00	2	0.00	2.27	0.00	1.52	66	0.00	0.00	1	0.00	1.49
Harborview Medical Center <sup>7, 25</sup>	0.00	5.56	36	3.23	6.45	62	-	-	0	-	-	0	-	-	0.00	0.00	11	0.00	2.94	34	-	-	0	0.00	2.94	0.00	0.00	1	25.00	25.00	4	20.00	20.00											
Harrison Medical Center	0.00	0.00	71	3.11	6.67	225	1.08	2.70	185	0.00	0.00	1	1.08	2.69	0.00	0.00	118	0.42	0.42	237	0.00	0.00	11	0.40	0.40	0.28	0.28	358	0.00	0.00	14	0.27	0.27											
Highline Medical Center	0.00	0.00	43	4.05	5.41	74																						0.00	0.00	95	0.00	0.00	6	0.00	0.00	0.00	0.00	124	0.00	0.00	5	0.00	0.00	
Island Hospital	0.00	0.00	21	0.00	3.03	33																						0.00	0.00	94	0.00	0.00	3	0.00	0.00	0.56	0.56	179	0.00	0.00	12	0.52	0.52	
Jefferson General Hospital <sup>22, 26</sup>	0.00	0.00	3	0.00	9.09	11																						6.45	12.90	31	0.00	0.00	1	6.25	12.50	0.00	4.35	23	0.00	0.00	2	0.00	4.00	
Kadlec Medical Center	1.09	2.17	92	3.33	4.67	150	1.53	1.53	261	11.11	11.11	9	1.85	1.85	0.00	0.00	100	0.00	0.00	142	0.00	9.09	11	0.00	0.65	0.00	0.00	147	0.00	0.00	13	0.00	0.00											
Kennewick General Hospital <sup>8, 27</sup>	4.00	8.00	50*	2.86	8.57	35																						0.00	0.00	71	0.00	0.00	5	0.00	0.00	1.53	1.53	131	0.00	0.00	12	1.40	1.40	



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Olympic Medical Center	0.00	0.00	28	5.66	7.55	53																							0.81	0.81	124	0.00	0.00	3	0.79	0.79	0.00	0.00	155	-	-	0	0.00	0.00
Othello Community Hospital	0.00	0.00	2																																									
Overlake Hospital Medical Center	1.24	1.98	404	2.19	4.74	274	0.00	1.01	99	0.00	0.00	6	0.00	0.95	0.00	0.00	72	0.18	0.36	550	1.28	1.28	78	0.32	0.48	0.15	0.15	648	2.56	2.56	39	0.29	0.29											
PeaceHealth Saint John Medical Center	2.00	2.00	50	1.33	12.00	75											1.04	1.55	193	0.00	7.14	14	0.97	1.93	0.00	0.00	273	0.00	0.00	14	0.00	0.00												
PeaceHealth Saint Joseph Medical Center <sup>20</sup>	0.00	0.00	93	6.17	8.64	162	2.11	3.16	95	0.00	0.00	7	1.96	2.94	<b>1.46</b>	1.46	137	1.03	2.05	390	0.00	0.00	23	0.97	1.94	0.00	0.00	421	4.76	4.76	21	0.23	0.23											
PeaceHealth Southwest Medical Center	0.35	0.35	288	1.98	3.47	202	0.46	0.92	217	0.00	0.00	1	0.46	0.92	0.00	0.00	124	0.53	0.53	379	0.00	0.00	53	0.46	0.46	0.65	0.65	306	0.00	0.00	22	0.61	0.61											
Prosser Memorial Hospital	0.00	0.00	11	0.00	0.00	1											0.00	0.00	5	-	-	0	0.00	0.00	0.00	0.00	10	0.00	0.00	1	0.00	0.00												
Providence Centralia Hospital	2.08	2.08	48	4.29	5.71	70											0.73	0.73	137	0.00	0.00	10	0.68	0.68	0.60	0.60	166	0.00	0.00	9	0.57	0.57												
Providence Everett Medical Center	0.45	0.68	440	1.82	2.27	220	1.27	1.27	315	0.00	0.00	16	1.21	1.21	0.53	0.53	190	1.37	1.37	510	4.26	4.26	47	1.62	1.62	0.16	0.16	629	0.00	0.00	34	0.15	0.15											
Providence Holy Family Hospital <sup>9</sup>	<b>5.97</b>	<b>7.46</b>	<b>67*</b>	5.10	9.18	98											1.27	1.69	236	0.00	0.00	48	1.06	1.41	0.30	0.60	335	0.00	0.00	48	0.26	0.52												
Providence Mount Carmel Hospital	0.00	0.00	9	0.00	0.00	17											0.00	0.00	2	-	-	0	0.00	0.00	0.00	0.00	2	0.00	0.00	1	0.00	0.00												
Providence Sacred Heart Medical Center	0.53	0.53	376	3.68	4.82	353	0.51	0.51	396	0.00	0.00	18	0.48	0.48	0.00	0.00	533	0.32	0.96	628	1.03	1.03	97	0.41	0.97	0.14	0.14	731	0.00	0.00	99	0.12	0.12											
Providence Saint Mary Medical Center	0.00	0.00	19	2.17	2.17	46											0.74	0.74	135	0.00	8.33	12	0.68	1.36	0.62	0.62	162	0.00	0.00	24	0.54	0.54												
Providence Saint Peter Hospital	0.00	0.00	101	0.97	1.45	207	0.00	1.33	226	0.00	0.00	14	0.00	1.25	0.00	0.65	155	0.19	0.39	513	1.35	2.70	74	0.34	0.68	0.12	0.36	826	0.80	0.80	125	0.21	0.42											
Pullman Regional Hospital <sup>15</sup>	0.98	1.96	102	<b>10.53</b>	15.79	19											0.00	0.00	29	0.00	0.00	1	0.00	0.00	0.00	0.00	87	0.00	0.00	3	0.00	0.00												

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Saint Anthony Hospital	0.00	0.00	29	5.17	6.90	58																							0.47	0.94	212	0.00	0.00	4	0.46	0.93	0.38	0.38	263	10.00	10.00	10	0.73	0.73		
Saint Clare Hospital	0.00	0.00	10	2.86	11.43	35																							0.53	1.05	190	0.00	0.00	8	0.51	1.01	0.45	0.45	224	0.00	0.00	8	0.43	0.43		
Saint Elizabeth Hospital	0.00	0.00	3	0.00	0.00	18																							0.00	0.00	30	0.00	0.00	2	0.00	0.00	0.00	0.00	60	0.00	0.00	1	0.00	0.00		
Saint Francis Hospital <sup>10</sup>	3.03	3.03	33	6.25	8.75	80																							0.00	0.00	80	33.33	33.33	3	1.20	1.20	0.00	0.00	92	0.00	0.00	3	0.00	0.00		
Saint Joseph Medical Center	0.69	0.92	434	3.85	7.14	182	0.83	1.65	242	0.00	0.00	25	0.75	1.50	0.54	0.54	186	0.55	0.82	366	0.00	0.00	22	0.52	0.77	0.43	1.07	467	0.00	0.00	30	0.40	1.01													
Samaritan Healthcare <sup>16</sup>	0.00	0.00	8	5.88	17.65	17																							1.54	1.54	65	0.00	0.00	6	1.41	1.41	0.00	0.00	142	0.00	0.00	9	0.00	0.00		
Seattle Children's Hospital <sup>11</sup>	20.00	40.00	5	0.00	4.88	41	-	-	0	-	-	0	-	-	0.39	0.78	255	0.00	0.00	7	-	-	0	0.00	0.00	0.00	0.00	4	0.00	0.00	4	0.00	0.00													
Shriners Hospital for Children																													0.00	0.00	3	-	-	0	0.00	0.00	-	-	0	-	-	0	-	-		
Skagit Valley Hospital <sup>12, 23</sup>	3.85	3.85	26	2.67	2.67	75																							1.75	2.63	114	33.33	33.33	3	2.56	3.42	0.55	0.55	182	0.00	0.00	18	0.50	0.50		
Skyline Hospital	-		0	-	-	0																																								
Sunnyside Community Hospital <sup>28</sup>	0.00	0.00	6	0.00	0.00	6																							0.00	0.00	10	-	-	0	0.00	0.00	0.00	0.00	7.14	14	0.00	0.00	2	0.00	6.25	
Swedish Ballard	0.00	0.00	6	0.00	0.00	1																							0.00	0.50	400	0.00	0.00	21	0.00	0.48	0.79	0.79	127	0.00	0.00	8	0.74	0.74		
Swedish Cherry Hill	-		0	-	-	0	0.33	2.66	301	2.38	3.57	84	0.78	2.86	0.00	0.00	432																													
Swedish Edmonds	1.52	1.52	66	0.71	2.13	141																							1.45	2.17	138	0.00	0.00	7	1.38	2.07	0.00	0.00	190	0.00	0.00	8	0.00	0.00		
Swedish First Hill	0.73	1.58	825	4.38	7.73	388																							0.29	0.39	1020	1.08	1.62	185	0.41	0.58	0.46	0.61	1316	1.02	2.04	98	0.50	0.71		

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							Chest and Secondary Incision Site		Chest Incision Only		Overall					Initial		Revision		Overall		Initial		Revision		Overall							
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Swedish Issaquah	1.60	3.20	125	1.54	7.69	65											0.79	0.79	127	0.00	0.00	5	0.76	0.76	0.47	0.47	213	0.00	0.00	8	0.45	0.45	
Tacoma General Hospital / Allenmore Hospital	0.00	0.00	387	3.57	4.46	224	0.42	0.42	237	0.00	0.00	6	0.41	0.41	0.93	0.93	108	1.69	1.69	236	0.00	0.00	12	1.61	1.61	0.00	0.33	307	7.14	7.14	28	0.60	0.90
Three-Rivers Hospital				0.00	0.00	2											0.00	0.00	8	0.00	0.00	1	0.00	0.00	0.00	0.00	9	0.00	0.00	5	0.00	0.00	
Toppenish Community Hospital	0.00	0.00	7	-	-	0											0.00	0.00	1	-	-	0	0.00	0.00	0.00	0.00	4	-	-	0	0.00	0.00	
Tri-State Memorial Hospital	0.00	0.00	42	0.00	0.00	1											0.00	0.00	89	0.00	0.00	10	0.00	0.00	0.00	0.58	172	0.00	0.00	18	0.00	0.53	
United General Hospital				0.00	0.00	10																											
University of Washington Medical Center	0.00	1.54	195	0.96	1.27	314	0.00	0.00	101	0.00	0.00	17	0.00	0.00	0.32	0.32	309	1.89	1.89	53	0.00	0.00	14	1.49	1.49	0.00	0.00	16	0.00	0.00	7	0.00	0.00
Valley General Hospital	0.00	0.00	1	0.00	0.00	36											0.00	0.00	29	0.00	0.00	3	0.00	0.00	0.00	0.00	48	0.00	0.00	4	0.00	0.00	
Valley Hospital and Medical Center	0.00	0.00	84	4.17	4.17	72											1.07	1.60	187	0.00	0.00	19	0.97	1.46	0.00	0.00	306	0.00	0.00	2	0.00	0.00	
Valley Medical Center	1.89	1.89	53	2.38	2.38	42											1.66	1.90	422	1.96	1.96	51	1.69	1.90	0.98	0.98	613	0.00	0.00	47	0.91	0.91	
Virginia Mason Medical Center	2.08	2.08	96	2.42	3.93	331	0.42	0.84	238	0.00	0.00	13	0.40	0.80	0.49	0.49	205	0.50	1.00	602	0.00	0.00	67	0.45	0.90	0.00	0.11	872	0.00	0.00	74	0.00	0.11
Walla Walla General Hospital <sup>29</sup>	0.00	0.00	8	0.00	3.57	28											0.00	0.00	25	0.00	0.00	2	0.00	0.00	2.56	2.56	39	0.00	0.00	2	2.44	2.44	
Wenatchee Valley Medical Center	0.00	0.00	175	-	-	0											0.00	0.00	44	-	-	0	0.00	0.00	0.00	0.00	69	0.00	0.00	1	0.00	0.00	
Whidbey General Hospital	0.00	0.00	12	0.00	0.00	15											0.00	2.04	49	0.00	0.00	2	0.00	1.96	0.00	1.47	68	0.00	0.00	3	0.00	1.41	
Whitman Hospital and Medical Center <sup>17, 24</sup>	-	-	0	20.00	20.00	5											0.00	6.67	15	0.00	0.00	2	0.00	5.88	0.00	0.00	33	0.00	0.00	1	0.00	0.00	



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3. The standardized infection ratio (SIR) is a summary statistic used by the CDC/NHSN to track healthcare associated infection prevention progress over time. The SIR compares reported HAI cases in a facility to “predicted” cases from historic baseline rates from the general U.S. population (national baseline for SSI is January 2006 – December 2008). The SIR for a facility is adjusted to account for factors that might cause infection rates to be higher or lower, such as hospital, surgery and patient characteristics. Washington State hospitals with surgical site infection SIRs significantly different than the national baseline are identified as either statistically high (red), or low (gold/yellow).
4. Visit our website for descriptions of these [types of surgical procedure categories](#).
5. Details of certain surgical procedure types are included in this table (coronary artery bypass graft procedures and joint replacement procedures). Hospitals are compared by their “overall” infection rates in these categories to compare hospitals more accurately. However, the more specific infection rate and procedure volume information in this table may be useful for patients and providers in planning for elective surgery.

### Abdominal Hysterectomies

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6. Grays Harbor Community Hospital – Infection rate is due to one deep surgical wound infection with a low number of procedures performed. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed. Additions were made to post-operative monitoring and patient follow-up after discharge.
7. Harborview Medical Center – Infection rate is due to two shallow surgical wound infections, with no indication of cross infection. The hospital reviewed both cases and reports that surgical care and infection prevention measures were followed. The hospital also reports enhanced infection surveillance due to a large outpatient clinic network.
8. Kennewick General Hospital – Infection rate is due to four surgical wound infections, two shallow and two deep, with no indication of cross-infection. The hospital’s standardized infection ratio (SIR), as calculated by CDC/NHSN, is also significantly higher than the national baseline. The hospital reviewed each case with their surgery committee and reports changing operating room work-flow and performed surgeon reeducation.
9. Providence Holy Family Hospital – Infection rate is due to five surgical wound infections, one shallow and four deep, with no indication of cross-infection. The hospital’s standardized infection ratio (SIR), as calculated by CDC/NHSN, is also significantly higher than the national baseline. The hospital investigated each case and has formed a multidisciplinary review board for infections, with administrative support. Surgical care processes have also been revised and operating room staff reeducated on infection prevention measures.
10. Saint Francis Hospital - Infection rate is due to only one deep surgical wound infection. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed.
11. Seattle Children’s Hospital – Infection rate is due to two surgical wound infections, one shallow and one deep, with no indication of cross infection and only five hysterectomy procedures performed during the year. The hospital operates on children with complex anatomical anomalies undergoing reconstructive surgeries. The hospital reviewed both cases and reports that surgical care and infection prevention measures were followed.
12. Skagit Valley Hospital – Infection rate is due to only one deep surgical wound infection. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed.
13. Yakima Valley Memorial Hospital – Infection rate is due to only one deep surgical wound infection. The case was reviewed and improvements were made to surgical care processes and infection prevention measures reinforced.

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### Colon Surgeries

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14. Central Washington Hospital – The hospital's standardized infection ratio (SIR), as calculated by CDC/NHSN, is significantly higher than the national baseline, with two times the predicted number of infections occurring throughout the year. The hospital reviewed each case and has made improvements to their operative infection prevention practices. The hospital also reports enhanced infection surveillance from access to an outpatient clinic network.
15. Pullman Regional Hospital – Infection rate is due to two deep surgical wound infections, with no indication of cross-infection and a low number of colon procedures performed during the year. The hospital investigated both cases and identified a potential issue with a surgical closure device in both cases and has since discontinued the use of that device brand. Surgical site prevention practices have been reinforced and staff reeducated.
16. Samaritan Healthcare – Infection rate is due to three surgical wound infections, two shallow and one deep, with no indication of cross-infection and a low number of colon procedures performed during the year. The hospital reviewed each case and reports that surgical care and infection prevention measures were followed.
17. Whitman Hospital and Medical Center – Infection rate is due to one deep surgical wound infection out of only five colon procedures performed during the year. The hospital reports all appropriate infection prevention measures have been in place and continue to be enforced.

### Coronary Artery Bypass Graft Surgeries

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For coronary artery bypass graft surgeries, hospitals are compared by their "overall" infection rates, to compare hospitals more accurately. Details of coronary artery bypass graft surgeries with secondary incision sites (CBGB) or chest incision only (CBGC) may be useful for patients and providers in planning for elective surgery and for comparison to other reports using these NHSN categories.

18. Deaconess Medical Center – Infection rate is due to three deep surgical wound infections with no indication of cross-infection. The hospital investigated each case and reports increasing surgical staff, with reeducation and reinforcing infection prevention measures. Changes were also made to artery donor site incision practices.
19. Northwest Hospital – Infection rate is due to only one deep surgical wound infection with a low number of coronary artery procedures performed during the year. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed. Recent updates in cardiac surgery infection prevention guidelines have also been added to their routine pre-operative measures.

### Heart (Cardiac) Surgeries

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20. PeaceHealth Saint Joseph Medical Center – Infection rate is due to two deep surgical wound infections with no indication of cross-infection. The hospital reviewed the cases with a multi-disciplinary team and reports that surgical care and infection prevention measures were followed.
21. Yakima Regional Medical and Cardiac Center – Infection rate is due to only one deep surgical wound infection with a low number of heart surgeries performed during the year. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed.

# Table of Surgical Site Infection Rates, by Type of Procedure and Depth of Infection, 2013<sup>1, 2, 3</sup>

October 8, 2014 download of January 2013 – December 2013 NHSN data

## Hip Replacement Surgeries

For hip replacement surgeries, hospitals are compared by their “overall” infection rates, to compare hospitals more accurately. Details of initial (“primary” per NHSN) and repeat or revision hip prosthesis surgeries may be useful for patients and providers in planning for elective surgery.

22. Jefferson General Hospital – Infection rate is due to four surgical wound infections, two shallow and two deep, with no indication of cross-infection and a low number of hip replacement surgeries during the year. The hospital reviewed each case and has reinforced surgical care measures, made improvements to their operative infection prevention practices and has formed a multidisciplinary team to review infections.
23. Skagit Valley Hospital – Infection rate is due to three deep surgical wound infections throughout the year. The hospital reports that surgical care measures were followed. The hospital is working to improve processes and communication between the surgeons, surgical teams, and patients to prevent and investigate infections.
24. Whitman Hospital and Medical Center – Infection rate is due to one shallow surgical wound infection with a low number of hip procedures performed during the year. The hospital reports all appropriate infection prevention measures have been in place and continue to be enforced.

## Knee Replacement Surgeries

For knee replacement surgeries, hospitals are compared by their “overall” infection rates, to compare hospitals more accurately. Details of initial (“primary” per NHSN) and repeat or revision knee prosthesis surgeries may be useful for patients and providers in planning for elective surgery.

25. Harborview Medical Center – Infection rate is due to only one deep surgical wound infection out of only five knee replacement procedures performed during the year. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed. The hospital does not perform elective joint replacement surgery. The patients that receive these procedures are admitted for traumatic injuries.
26. Jefferson General Hospital – Infection rate is due to only one shallow surgical wound infection with a low number of knee replacement surgeries during the year. The hospital reviewed each case and has reinforced surgical care measures, made improvements to their operative infection prevention practices and has formed a multidisciplinary team to review infections.
27. Kennewick General Hospital – Infection rate is due to two deep surgical wound infections with no indication of cross-infection. The hospital reviewed each case with their surgery committee and reports changing operating room work-flow and that surgical care and infection prevention measures were followed.
28. Sunnyside Community Hospital – Infection rate is due to only one shallow surgical wound infection and a very low number of knee replacement surgeries during the year. The hospital reviewed the case and reports that surgical care and infection prevention measures were followed.
29. Walla Walla General Hospital – Infection rate is due to only one deep surgical wound infection. The hospital reviewed the cases and reports that surgical care and infection prevention measures were followed. The hospital also reports changes to preoperative procedures including pre-surgery patient preparation and education.