

Table 4.14: Trends in Mean and Total Hospital Charges [1] for Hip and Knee Joint Replacement Procedures, United States 1998-2011

In Actual Dollars									
Average (Mean) Charges Per Hospitalization									
	1998	1999	2000	2001	2002	2003	2004	2007	2011
Total Hip Replacement [2]	\$22,000	\$23,000	\$26,000	\$27,000	\$31,000	\$35,000	\$37,000	\$45,500	\$56,000
Partial Hip Replacement [3]	\$22,000	\$23,000	\$26,000	\$28,000	\$32,000	\$35,000	\$39,000	\$49,300	\$62,800
Revision Hip Replacement [4]	\$27,000	\$31,000	\$32,000	\$34,000	\$39,000	\$45,000	\$46,000	\$50,200	\$79,500
Total Knee Replacement [5]	\$21,000	\$22,000	\$24,000	\$26,000	\$29,000	\$31,000	\$33,000	\$41,500	\$52,100
Revision Knee Replacement [6]	\$24,000	\$25,000	\$30,000	\$30,000	\$35,000	\$42,000	\$42,000	\$55,100	\$77,700
Total Hospitalization Charges for Joint Replacements (in billions)									
	1998	1999	2000	2001	2002	2003	2004	2007	2011
Total Hip Replacement [2]	\$3.37	\$3.64	\$4.00	\$5.07	\$5.91	\$6.77	\$8.34	\$11.50	\$17.17
Partial Hip Replacement [3]	\$2.27	\$2.39	\$2.63	\$2.98	\$3.35	\$3.58	\$3.97	\$5.11	\$6.62
Revision Hip Replacement [4]	\$0.83	\$0.99	\$1.04	\$1.32	\$1.47	\$1.66	\$1.69	\$8.23	\$4.02
Total Knee Replacement [5]	\$5.36	\$5.67	\$6.22	\$8.06	\$9.82	\$11.38	\$14.26	\$22.88	\$33.61
Revision Knee Replacement [6]	\$0.54	\$0.63	\$0.70	\$0.85	\$1.01	\$1.47	\$1.48	\$2.48	\$4.86
Total Hip and Knee Replacement Cost	\$12.37	\$13.32	\$14.59	\$18.29	\$21.57	\$24.86	\$29.74	\$50.20	\$66.29

In 2011 Dollars [7]									
Average (Mean) Charges Per Hospitalization									
	1998	1999	2000	2001	2002	2003	2004	2007	2011
Total Hip Replacement [2]	\$ 30,400	\$ 31,054	\$ 33,963	\$ 34,293	\$ 38,761	\$ 42,787	\$ 44,059	\$ 49,362	\$ 56,000
Partial Hip Replacement [3]	\$ 30,400	\$ 31,054	\$ 33,963	\$ 35,563	\$ 40,011	\$ 42,787	\$ 46,441	\$ 53,484	\$ 62,800
Revision Hip Replacement [4]	\$ 37,300	\$ 41,855	\$ 41,801	\$ 43,184	\$ 48,764	\$ 55,012	\$ 54,776	\$ 54,460	\$ 79,500
Total Knee Replacement [5]	\$ 29,000	\$ 29,704	\$ 31,350	\$ 33,023	\$ 36,260	\$ 37,897	\$ 39,296	\$ 45,022	\$ 52,100
Revision Knee Replacement [6]	\$ 33,100	\$ 33,754	\$ 39,188	\$ 38,104	\$ 43,762	\$ 51,345	\$ 50,013	\$ 59,776	\$ 77,700
Total Hospitalization Charges for Joint Replacements (in billions)									
	1998	1999	2000	2001	2002	2003	2004	2007	2011
Total Hip Replacement [2]	\$ 4.65	\$ 4.91	\$ 5.23	\$ 6.44	\$ 7.39	\$ 8.27	\$ 9.93	\$ 12.47	\$ 17.17
Partial Hip Replacement [3]	\$ 3.13	\$ 3.23	\$ 3.43	\$ 3.79	\$ 4.19	\$ 4.37	\$ 4.73	\$ 5.55	\$ 6.62
Revision Hip Replacement [4]	\$ 1.15	\$ 1.34	\$ 1.36	\$ 1.68	\$ 1.84	\$ 2.04	\$ 2.01	\$ 8.93	\$ 4.02
Total Knee Replacement [5]	\$ 7.40	\$ 7.65	\$ 8.13	\$ 10.24	\$ 12.28	\$ 13.91	\$ 16.98	\$ 24.82	\$ 33.61
Revision Knee Replacement [6]	\$ 0.74	\$ 0.85	\$ 0.91	\$ 1.08	\$ 1.26	\$ 1.80	\$ 1.76	\$ 2.69	\$ 4.86
Total Hip and Knee Replacement Cost	\$ 17.06	\$ 17.98	\$ 19.06	\$ 23.23	\$ 26.97	\$ 30.39	\$ 35.41	\$ 54.46	\$ 66.29

[1] Average charges are based on individual record discharges. The fees included may vary from patient to patient, but generally include hospital room, supplies, medications, laboratory fees, and care staff, such as nurses. They generally do not include professional fees (doctors) and non-covered charges. In a small proportion of the discharge cases, professional fees (doctors) are not removed from total charges because the data source cannot provide the information. Emergency charges incurred prior to admission to the hospital may be included in total charges. Medicare requires a bundled bill for Medicare patients admitted to the hospital through the emergency department; other payers may or may not have similar requirements.

[2] ICD-9-CM procedure code 81.51.

[3] ICD-9-CM procedure code 81.52, 00.70-00.73.

[4] ICD-9-CM procedure code 81.53.

[5] ICD-9-CM procedure code 81.54.

[6] ICD-9-CM procedure code 81.55, 00.80-00.84.

[7] Source: CPI Inflation Calculator. Bureau of Labor Statistics, United States Department of Labor. http://www.bls.gov/data/inflation_calculator.htm (October 29, 2013).

HCUP Nationwide Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2011. Agency for Healthcare Research and Quality, Rockville, MD. www.hcup-us.ahrq.gov/nisoverview.jsp