

Table 4.11: Principal Diagnoses [1] Associated with Hip and Knee Joint Replacement, United States 2010/2011

Principal Diagnosis	Proportion of Total Replacement Procedures		
	Total Hip Replacement	Partial Hip Replacement	Total Knee Replacement
National Hospital Discharge Survey, 2010	[2]	[3,5]	[4]
Osteoarthritis, Primary and Secondary	82.8%	1.0%	94.8%
Fracture of Neck of Femur, Femur or Lower Leg, Including Pathological Fracture and Non-union of Fracture	5.3%	66.5%	<0.1%
Infection	6.0%	1.0%	0.1%
Other or Unspecified Arthropathy (joint disease)	2.2%	0.0%	0.9%
Complications of internal orthopedic device	1.0%	6.9%	0.5%
Rheumatoid Arthritis	0.1%	0.0%	0.7%
Congenital or acquired deformities, Including Spondylolysis/Spondylolisthesis	0.1%	19.9%	0.0%
All Other	2.5%	4.7%	3.0%
Total Procedures (in 000s)	326.1	134.8	693.4

Source: National Hospital Discharge Survey (NHDS), 2010. www.cdc.gov/nchs/nhds/nhds_questionnaires.htm April 23, 2013.

Principal Diagnosis	Proportion of Total Replacement Procedures		
	Total Hip Replacement	Partial Hip Replacement	Total Knee Replacement
Nationwide Inpatient Sample, 2011	[2]	[3,5]	[4]
Osteoarthritis, Primary and Secondary	85.3%	0.7%	97.3%
Fracture of Neck of Femur, Femur or Lower Leg, Including Pathological Fracture and Non-union of Fracture	4.8%	91.9%	0.1%
Infection	6.3%	0.5%	0.0%
Other or Unspecified Arthropathy (joint disease)	1.2%	<0.1%	1.4%
Complications of internal orthopedic device	0.9%	1.5%	0.2%
Rheumatoid Arthritis	0.4%	0.0%	0.5%
Congenital or acquired deformities, Including Spondylolysis/Spondylolisthesis	0.5%	<0.1%	0.1%
All Other	100.0%	100.0%	100.0%
Total Procedures (in 000s)	306.6	105.5	645.1

Source: 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

[1] Based on first diagnosis code recorded for visit.

[2] ICD-9-CM procedure code 8151. [3] ICD-9-CM procedure code 8152. [4] ICD-9-CM procedure code 8154.

[5] An unknown error in the partial hip replacement data occurred in the NHDS 2010 data file. A correction for total partial hip cases was made by excluding cases with diagnosis of spine (720 724, 737, 756, 805, 806).