

TABLE E-1 Most Common Medical Comorbid Conditions in the Surgical Groups*

Comorbid Condition	Sequential (n=26)	Staggered (n=241)	Staged (n=65)	Fisher exact test (p value)
Any comorbidity	16 (61.5%)	205 (85.1%)	57 (87.7%)	0.012
Atrial fibrillation	1 (3.8%)	15 (6.2%)	3 (4.6%)	0.921
Prostate hypertrophy	2 (7.7%)	15 (6.2%)	3 (4.6%)	0.791
Cancer-any type	0 (0%)	18 (7.5%)	4 (6.2%)	0.490
Coronary artery disease	0 (0%)	29 (12.0%)	9 (13.9%)	0.114
Depression	0 (0%)	10 (4.2%)	3 (4.6%)	0.794
Diabetes	1 (3.8%)	29 (12.0%)	9 (13.9%)	0.440
Deep-vein thrombosis	1 (3.8%)	5 (2.1%)	4 (6.2%)	0.145
GERD	0 (0%)	21 (8.7%)	4 (6.2%)	0.353
Hypercholesterolemia	3 (11.5%)	50 (20.8%)	14 (21.5%)	0.575
Hypertension	8 (30.8%)	116 (48.1%)	41 (63.1%)	0.014
Obesity	2 (7.7%)	35 (14.5%)	14 (21.5%)	0.224
Thyroid	1 (3.8%)	34 (14.1%)	10 (15.4%)	0.341
Valvular heart	0 (0%)	9 (3.7%)	2 (3.1%)	0.881

*The values are given as the number of patients. GERD = gastroesophageal reflux disease.

TABLE E-2 Minor Complications According to the Method of Arthroplasty

Type of Complication	Staggered	Sequential	Staged
Total Minor Complications	28 (12%)	9 (35%)	16 (25%)
Cardiac Atrial fibrillation, minor congestive heart failure exacerbation	4 (2%)	0 (0%)	3 (5%)
Neurological Confusion, seizure	3 (1%)	2 (8%)	2 (3%)
Pulmonary Pneumonia	2 (1%)	0 (0%)	2 (3%)
Urinary Retention, urinary tract infection	7 (3%)	4 (15%)	2 (3%)
Wound Superficial infection	3 (1%)	2 (8%)	3 (5%)
Vascular Deep-vein thrombosis	2 (1%)	0 (0%)	2 (3%)
Other Early manipulation, monitored floor admission (non-intensive care unit)	7 (3%)	1 (4%)	2 (3%)

TABLE E-3 Most Common Medical Comorbid Conditions in Those with and without a Complication

Comorbid Condition	Patients with Major or Minor Complication (n=61)	Patients with No Complication (n=271)	Fisher exact test (p value)
Any comorbidity	54 (88.5%)	224 (82.7%)	0.338
Atrial fibrillation	3 (4.9%)	16 (5.9%)	1.0
Prostate hypertrophy	4 (6.6%)	16 (5.9%)	0.771
Cancer-any type	4 (6.6%)	18 (6.6%)	1.0
Coronary artery disease	10 (16.4%)	28 (10.3%)	0.185
Depression	0 (0%)	13 (4.8%)	0.137
Diabetes	9 (14.8%)	30 (11.1%)	0.388
Deep-vein thrombosis	4 (6.6%)	6 (2.2%)	0.091
GERD	1 (1.6%)	24 (8.9%)	0.060
Hypercholesterolemia	11 (18.0%)	56 (20.7%)	0.726
Hypertension	28 (45.9%)	137 (50.6%)	0.572
Obesity	9 (14.8%)	42 (15.5%)	1.0
Thyroid	5 (8.2%)	40 (14.8%)	0.217
Valvular heart	3 (4.9%)	8 (3.0%)	0.430

GERD = gastroesophageal reflux disease.

TABLE E-4 Most Common Medical Comorbid Conditions in Patients with and without a Major Complication

Comorbid Condition	Patients with Major Complication (n=8)	Patients with No Major Complication (n=324)	Fisher exact test (p value)
Any comorbidity	7 (87.5%)	271 (83.6%)	1.0
Atrial fibrillation	0 (0%)	19 (5.9%)	1.0
Prostate hypertrophy	0 (0%)	20 (6.2%)	1.0
Cancer-any type	0 (0%)	22 (6.8%)	1.0
Coronary artery disease	2 (25.0%)	36 (11.1%)	0.230
Depression	0 (0%)	13 (4.0%)	1.0
Diabetes	1 (12.5%)	38 (11.7%)	1.0
Deep-vein thrombosis	0 (0%)	10 (3.1%)	1.0
GERD	1 (12.5%)	24 (7.4%)	0.465
Hypercholesterolemia	2 (25.0%)	65 (20.1%)	0.665
Hypertension	3 (37.5%)	162 (50.0%)	0.723
Obesity	3 (37.5%)	48 (14.8%)	0.109
Thyroid	0 (0%)	45 (13.9%)	0.604
Valvular heart	1 (12.5%)	10 (3.1%)	0.239

GERD = gastroesophageal reflux disease.

TABLE E-5 Reimbursement Comparisons by Method of Arthroplasty

	Total Reimbursement*	Hospital Reimbursement*	Surgeon Reimbursement*
Bilateral sequential	18042.3 (17057.2-25206.8)	14291.85 (13955.23-19381.15)	3427.13 (3202.22-5967.08)
Bilateral staggered	19790.1 (16367.4 – 29837.7)	15506.42 (13926.76-25562.70)	4336.42 (3648.00-4532.07)
Staged (two admissions)	22666.6 (21146.5-32606.6)	18958.39 (18020.42-27582.39)	5481.19 (3210.24-6828.75)

*The table gives the median and the interquartile range, 25th-75th percentile, for total, hospital, and surgeon cost for each group of patients. All costs have been converted to 2001 dollar values.