

TABLE E-1 Perioperative Care Characteristics

Operative Characteristics	Number of Cases*
CPT code†	
Plate/screw (CPT 27244)	1970 (35%)
Open reduction (CPT 27236)	1826 (32%)
Hemiarthroplasty (CPT 27125)	875 (15%)
Percutaneous fixation (CPT 27235)	454 (8%)
Intramedullary implant (CPT 27245)	401 (7%)
Total arthroplasty (CPT 27130)	157 (3%)
Anesthesia type	
General	3364 (59%)
Epidural, spinal, or other	2319 (41%)
Duration of anesthesia	
<2 hr	490 (13%)
2 to 3 hr	1565 (43%)
3 to 4 hr	1108 (30%)
≥4 hr	506 (14%)
Surgeon experience	
Resident	4354 (77%)
Attending/staff surgeon	1329 (23%)
Transfusions	
No transfusion	5053 (89%)
Transfusion	
1 U of red blood cells	293 (5%)
2 U of red blood cells	300 (5%)
≥3 U of red blood cells	37 (1%)
Time to surgery from admission‡	
Same day	468 (8%)
Next day	1562 (27%)
Day 2	1216 (21%)
Day 3	717 (13%)
Day 4+	1719 (30%)
Day of the week	
Weekend	396 (7%)
Weekday	5287 (93%)
Wound class other than clean	172 (3%)
Emergency admission	1669 (29%)

*Percentages were calculated with use of subjects with complete data as the denominator for each measure of interest. †CPT = Current Procedural Terminology. ‡Data were missing for one patient.

TABLE E-2 Association Between Preoperative Characteristics and Outcomes

Patient Characteristics	Thirty-Day Outcomes					
	Mortality		Readmission		Complications	
	Percent	P Value*	Percent†	P Value*	Percent	P Value*
Overall	8%		7%		21%	
Ethnicity		0.059		0.089		0.018
White	9%		7%		22%	
Black	6%		5%		20%	
Other	6%		5%		17%	
Age category		<0.001		0.347		<0.001
65 to 74 yr	6%		6%		16%	
75 to 84 yr	9%		7%		23%	
≥85 yr	13%		6%		23%	
Current smoker		0.352		0.492		0.059
Yes	8%		6%		21%	
No	8%		7%		19%	
Alcohol use		0.004		0.401		0.095
≤2 drinks/day	9%		6%		19%	
>2 drinks/day	5%		7%		17%	
Function		<0.001		0.315		<0.001
Independent	6%		6%		18%	
Partially dependent	11%		7%		24%	
Dependent	14%		5%		27%	
ASA score‡		<0.001		0.055		<0.001
I or II	2%		4%		14%	
III	6%		6%		19%	
IV or V	14%		7%		26%	
Clinical risks						
Steroid use		0.007		0.221		0.219
Yes	13%		8%		23%	
No	8%		6%		21%	
Disseminated cancer		<0.001		0.071		0.487
Yes	21%		4%		21%	
No	8%		6%		21%	
Impaired sensorium		<0.001		0.023		<0.001
Yes	17%		9%		30%	
No	7%		6%		20%	
Congestive heart failure		<0.001		0.041		<0.001
Yes	17%		9%		33%	
No	8%		6%		20%	
Dementia		<0.001		0.088		0.419
Yes	12%		5%		21%	

No	8%		7%		21%	
Diabetes		0.299		0.084		0.010
Yes	8%		8%		23%	
No	7%		6%		20%	
Hemiplegia		0.050		0.517		0.019
Yes	6%		6%		25%	
No	8%		7%		20%	
Severe chronic obstructive pulmonary disease		<0.001		0.007		<0.001
Yes	11%		8%		25%	
No	7%		6%		19%	
History of stroke		0.415		0.741		<0.001
Yes	8%		6%		25%	
No	8%		7%		20%	
Recent weight loss		<0.001		0.887		<0.001
Yes	19%		7%		32%	
No	7%		6%		20%	
Laboratory values						
Hematocrit <30%		<0.001		0.424		0.001
Yes	15%		6%		25%	
No	7%		6%		19%	
Hypoalbuminemia <3 g/dL		0.001		0.213		<0.001
Yes	15%		6%		28%	
No	6%		7%		20%	
Creatinine >1.2 mg/dL		<0.001		0.001		<0.001
Yes	10%		8%		23%	
No	7%		6%		19%	
Sodium <130 mEq/L		0.403		0.116		0.098
Yes	9%		9%		25%	
No	8%		6%		21%	
Sodium >148 mEq/L		0.017		0.492		0.536
Yes	23%		6%		21%	
No	8%		4%		19%	

*Bold text indicates significance ($p < 0.05$). †Excludes subjects who died within two days after surgery.

‡ASA = American Society of Anesthesiologists.