TABLE E-1 Relative Contribution of Procedures to Overall Adverse-Event Counts and Excess Length of Stay in Orthopaedic Surgery

Procedure	Procedures		Adverse-Event Rate *(%)*	Proportion of All Adverse Events *(%)*	Excess Length of Hospital Stay* *(days)*	Proportion of Excess Length of Stay* *(%)*
	No.	% of Total				
1. Hip fracture repair	376	4.7	29.3	19.2	319.7	17.5
2. Total knee arthroplasty	1062	13.3	9.7	18.0	107.0	5.9
3. Total hip arthroplasty	541	6.8	11.8	11.2	116.1	6.4
4. Revision total hip arthroplasty	92	1.2	30.4	4.9	129.8	7.1
5. Knee arthroscopy	1943	24.4	1.3	4.5	7.2	0.4
6. Laminectomy	157	2.0	15.3	4.2	198.9	10.9
7. Lumbar/thoracic arthrodesis	129	1.6	10.1	2.3	84.4	4.6
8. Femoral fracture repair	67	0.8	17.9	2.1	0.8	0.04
9. Revision total knee arthroplasty	127	1.6	8.7	1.9	35.9	2.0
10. Ankle fracture repair	228	2.9	4.8	1.9	35.1	1.9
11. Lower-extremity amputation	25	0.3	44.0	1.9	114.1	6.2
12. Tibial/fibular fracture, proximal/shaft, repair	84	1.1	9.5	1.4	4.2	0.2
13. Shoulder arthroscopy	814	10.2	0.9	1.2	0.4	0.02
14. Total elbow arthroplasty	7	0.1	85.7	1.0	–11.3	–0.62
15. Exploration/drainage of knee	47	0.6	12.8	1.0	27.7	1.5
16. Unicondylar knee arthroplasty	95	1.2	6.3	1.0	2.2	0.1
17. Humeral fracture repair	74	0.9	6.8	0.9	34.6	1.9
18. Elbow fracture/dislocation repair/reduction	51	0.6	9.8	0.9	2.8	0.2
19. Open rotator cuff repair	164	2.1	2.4	0.7	7.4	0.4
20. Exploration/drainage of hip	21	0.3	19.0	0.7	19.0	1.0
21. Clavicular fracture/dislocation repair/reduction	35	0.4	8.6	0.5	–1.6	–0.1
22. Hand or digit amputation	3	0.04	100.0	0.5	18.5	1.0
23. Total shoulder arthroplasty	46	0.6	4.3	0.3	2.3	0.1
24. Shoulder hemiarthroplasty	53	0.7	3.8	0.3	–1.1	–0.1
25. Hip dislocation reduction	3	0.04	33.3	0.2	2.0	0.1
26. Pelvic fracture repair	9	0.1	11.1	0.2	–0.4	–0.02
27. Shoulder capsulorrhaphy	15	0.2	6.7	0.2	–0.5	–0.03
28. Patellar fracture repair	32	0.4	3.1	0.2	–1.1	–0.1
29. Hip arthroscopy	21	0.3	4.8	0.2	7.1	0.4
30. Foot or toe amputation	6	0.1	16.7	0.2	4.0	0.2
31. Achilles tendon repair	63	0.8	1.6	0.2	10.2	0.6
32. Cervical arthrodesis	27	0.3	3.7	0.2	–1.8	–0.1
33. Ulnar and/or radial and/or wrist fracture repair	43	0.5	0.0	0.0	NA	NA
34. Discectomy	21	0.3	0.0	0.0	NA	NA
35. Biceps tendon repair	7	0.1	0.0	0.0	NA	NA
36. Knee dislocation reduction	2	0.03	0.0	0.0	NA	NA
37. Patellar dislocation reduction	7	0.1	0.0	0.0	NA	NA
38. Kyphoplasty/vertebroplasty	4	0.1	0.0	0.0	NA	NA
39. Hand fracture repair	62	0.8	0.0	0.0	NA	NA
40. Total ankle arthroplasty	4	0.1	0.0	0.0	NA	NA
41. Foot fracture repair (talus or calcaneus only)†	1	0.01	0.0	0.0	NA	NA
42. Exploration/drainage of elbow	2	0.03	0.0	0.0	NA	NA

43. Exploration/drainage of ankle	11	0.1	0.0	0.0	NA	NA
44. Vertebral corpectomy/osteotomy	16	0.2	0.0	0.0	NA	NA

*Negative numbers indicate that the average length of the hospital stay was greater among patients without any adverse events than among patients who had one or more adverse events. Also, excess length of stay could not be calculated if none of the operative cases had resulted in an adverse event (e.g., in the groups with ulnar and/or radial and/or wrist fracture repair, discectomy, or biceps tendon repair). NA = not applicable. †ACS-NSQIP collects data on operative repair of talar and calcaneal fractures but excludes CPT codes for repair of fractures of other bones within the foot.