

TABLE E-1 Clinical Characteristics of Patients with Revision Due to Infection or Aseptic Mechanical Failure within Two Years After Total Knee Arthroplasty (TKA)

Risk Factor	No. of Patients	Major Knee Infection			Aseptic Mechanical Failure		
		No. Revised	Percentage	P Value for Trend*	No. Revised	Percentage	P Value for Trend*
Total	88,629	1038	1.17		2047	2.31	
Patient age in yr				<0.001			<0.001
<50	3953	79	2.00†		281	7.11†	
50-64	29,428	386	1.31		960	3.26	
≥65	55,248	573	1.04		806	1.46	
Sex							
F	54,446	541	0.99†		1203	2.21†	
M	34,178	497	1.45		844	2.47	
Race/ethnicity							
White	65,085	730	1.12†		1469	2.26†	
Hispanic	12,738	170	1.33		284	2.23	
Black	4501	83	1.84		176	3.91	
Asian	3385	22	0.65		46	1.36	
Other	2920	33	1.13		72	2.47	
Annual hospital TKA volume				<0.001			<0.001
<50	6689	105	1.57†		180	2.69†	
50 to 100	13,020	169	1.30		340	2.61	
101 to 200	28,539	352	1.23		669	2.34	
>200	40,381	412	1.02		858	2.12	
Calendar year				0.19			0.53
2005	20,649	258	1.25‡		480	2.32‡	
2006	21,781	267	1.23		519	2.38	
2007	22,767	241	1.06		516	2.27	
2008	23,432	272	1.16		532	2.27	
No. of comorbidities				<0.001			0.02
0	39,034	362	0.93†		890	2.28‡	
1	27,938	292	1.05		607	2.17	
2	13,149	207	1.57		323	2.46	
3	5337	91	1.71		139	2.60	
4	1975	50	2.53		49	2.48	
≥5	1196	36	3.01		39	3.26	
Comorbidity							
Anemia	12,464	193	1.55†		282	2.26‡	
Heart failure	3154	68	2.16†		60	1.90‡	
Pulmonary obst. dis.	13,705	206	1.50†		360	2.63§	
Depression	8667	135	1.56†		262	3.02†	
Diabetes	17,420	281	1.61†		393	2.26‡	
Obesity	18,353	299	1.63†		499	2.72†	
Peripheral vasc. dis.	2476	53	2.14†		37	1.49§	
Psychosis	1788	44	2.46†		71	3.97†	
Pulmonary circ. dis.	550	6	1.09‡		12	2.18‡	
Renal failure	2605	51	1.96†		43	1.65§	
Valvular dis.	3595	49	1.36‡		73	2.03‡	

*Cochran-Armitage test for trend. †P < 0.001 (chi-square). ‡P < 0.05 (chi-square). §P > 0.05 (chi-square).