

Appendix

TABLE E-1 Multivariate Analysis of Reoperation, Revision or Implant Removal, and Complication Risk Among Total Knee Arthroplasties Stratified by BMI*

	HR†	P Value	Overall P Value
Reoperation			<0.001‡
<18 kg/m ²	0.88 (0.42 to 1.84)	0.73	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.15 (0.98 to 1.34)	0.09	
30 to 34.99 kg/m ²	0.99 (0.84 to 1.16)	0.89	
35 to 39.99 kg/m ²	1.20 (1.01 to 1.42)	0.04‡	
≥40 kg/m ²	1.17 (0.96 to 1.43)	0.12	
Revision or implant removal			<0.001‡
<18 kg/m ²	0.70 (0.30 to 1.65)	0.42	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.35 (1.08 to 1.69)	0.009‡	
30 to 34.99 kg/m ²	1.17 (0.93 to 1.47)	0.18	
35 to 39.99 kg/m ²	1.56 (1.21 to 2.00)	<0.001‡	
≥40 kg/m ²	1.69 (1.28 to 2.22)	<0.001‡	
Infection			<0.001‡
<18 kg/m ²	1.30 (0.30 to 5.68)	0.72	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.15 (0.85 to 1.56)	0.37	
30 to 34.99 kg/m ²	1.09 (0.80 to 1.49)	0.60	
35 to 39.99 kg/m ²	1.40 (0.99 to 1.98)	0.06	
≥40 kg/m ²	2.15 (1.51 to 3.08)	<0.001‡	
Infection (deep)			<0.001‡
<18 kg/m ²	1.96 (0.42 to 9.14)	0.39	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.03 (0.71 to 1.48)	0.89	
30 to 34.99 kg/m ²	0.93 (0.64 to 1.36)	0.71	
35 to 39.99 kg/m ²	1.35 (0.88 to 2.07)	0.17	
≥40 kg/m ²	2.25 (1.45 to 3.49)	<0.001‡	
Manipulation under anesthesia			0.43
<18 kg/m ²	0.72 (0.15 to 3.47)	0.68	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.21 (0.89 to 1.64)	0.23	
30 to 34.99 kg/m ²	0.94 (0.69 to 1.28)	0.67	
35 to 39.99 kg/m ²	0.94 (0.67 to 1.33)	0.74	
≥40 kg/m ²	0.60 (0.39 to 0.93)	0.02‡	

*The multivariate analysis took into account age, sex, surgical diagnosis, and time period of the surgical procedure. †The values are given as the HR, with the 95% CI in parentheses. ‡These values were significant.

TABLE E-2 Multivariate Analysis of Revision or Implant Removal Risk for Mechanical Failure Among Total Knee Arthroplasties Stratified by BMI*

	HR†	P Value	Overall P Value
Any revision for mechanical failure			<0.001‡
<18 kg/m ²	0.35 (0.11 to 1.13)	0.08	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.62 (1.16 to 2.27)	0.005‡	
30 to 34.99 kg/m ²	1.36 (0.96 to 1.92)	0.08	
35 to 39.99 kg/m ²	2.15 (1.50 to 3.08)	<0.001‡	
≥40 kg/m ²	1.33 (0.85 to 2.08)	0.22	
Aseptic loosening			<0.001‡
<18 kg/m ²	0.80 (0.25 to 2.58)	0.71	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.31 (0.86 to 2.00)	0.21	
30 to 34.99 kg/m ²	1.17 (0.76 to 1.80)	0.48	
35 to 39.99 kg/m ²	1.93 (1.24 to 3.00)	0.004‡	
≥40 kg/m ²	1.30 (0.76 to 2.20)	0.35	
Wear			0.001‡
<18 kg/m ²	0.11 (0.01 to 1.72)	0.11	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.79 (1.17 to 2.73)	0.007‡	
30 to 34.99 kg/m ²	1.48 (0.96 to 2.28)	0.07	
35 to 39.99 kg/m ²	2.22 (1.40 to 3.52)	<0.001‡	
≥40 kg/m ²	0.85 (0.43 to 1.68)	0.65	
Component fracture			0.15
<18 kg/m ²	1.45 (0.06 to 37.80)	0.82	
18 to 24.99 kg/m ²	1.0		
25 to 29.99 kg/m ²	1.69 (0.45 to 6.36)	0.44	
30 to 34.99 kg/m ²	1.09 (0.27 to 4.40)	0.90	
35 to 39.99 kg/m ²	3.12 (0.78 to 12.52)	0.11	
≥40 kg/m ²	2.57 (0.52 to 12.81)	0.25	

*The multivariate analysis took into account age, sex, surgical diagnosis, and time period of the surgical procedure. †The values are given as the HR, with the 95% CI in parentheses. ‡These values were significant.