

Table E1 Overall Survivorship Free of Revision

Year	Number at Risk	Estimate	95% CI
0	11,606		
1	10,318	98.7	98.5, 98.9
2	9,707	97.8	97.5, 98.0
3	8,187	96.9	96.6, 97.2
4	7,747	96.2	95.8, 96.5
5	6,973	95.2	94.8, 95.6
6	4,921	94.0	93.5, 94.4
7	4,355	92.7	92.1, 93.2
8	3,950	91.6	90.9, 92.2
9	3,554	90.3	89.6, 91.0
10	2,943	88.9	88.1, 89.6
11	1,500	87.5	86.5, 88.3
12	1,145	86.2	85.1, 87.1
13	913	84.6	83.4, 85.6
14	770	83.4	82.1, 84.5
15	595	81.5	80.0, 82.8
16	267	80.3	78.6, 81.9
17	222	79.7	78.0, 81.4
18	180	76.8	74.3, 78.9
19	145	76.4	73.8, 78.7
20	104	73.6	72.6, 77.9

Table E-2 Survivorship Free of Revision by Risk Factors

Factor	Knees	Revisions	Number at Risk	5-year	CI	Number at Risk	10-year	CI	Overall P-value
A. Age									
≤55	877	116	540	92	90-94	300	83	79-86	
56-70	5,110	391	3305	97	96-97	1472	89	87-90	< 0.0001
>70	5,619	201	3128	97	96-97	1171	94	93-95	
B. Gender									
Female	6,413	320	3933	97	97-98	1780	93	92-94	< 0.0001
Male	5,193	388	3040	95	94-96	1163	88	86-89	
C. Diagnosis									
Osteoarthritis	10,098	606	6024	96	96-97	2428	90	89-91	
Inflammatory	1,072	62	746	97	96-98	421	95	93-96	
Post-traumatic arthritis	265	21	121	91	85-94	54	86	79-91	< 0.0001
Osteonecrosis	125	9	59	94	87-98	25	84	70-93	
Other	46	10	23	76	57-87	15	76	57-87	
D. Prior Surgery									
No	9,273	494	5616	97	97-97	2337	92	91-93	< 0.0001
Yes	2,333	214	1357	94	92-95	606	86	84-88	
E. Implant Type									
Posterior cruciate ligament retaining	8,052	568	6183	97	97-97	2686	91	90-92	
Posterior stabilized	2,994	99	412	92	90-94	19	76	62-86	
Constrained condylar	120	6	46	93	87-98	3	93	87-98	< 0.0001
Posterior cruciate ligament sacrificing	412	33	323	96	94-98	230	93	89-95	
Other (miscellaneous)	28	2	0	-	-	0	-	-	
F. Tibial Design									
All polyethylene	464	9	154	97	94-99	0	97	94-99	
Modular metal backed	8,250	434	4410	96	95-96	1314	90	89-91	< 0.0005
Non-modular metal backed	2,892	265	2409	97	96-98	1629	92	90-93	
G. Patella Design									
All polyethylene	9,092	375	4895	97	96-97	1568	93	92-93	
Metal backed patella	888	220	744	93	91-94	179	76	72-79	
Not resurfaced	244	25	168	94	91-97	79	87	80-93	< 0.0001
Prior patellectomy	82	13	49	90	82-96	26	77	62-88	
Not recorded	1,300	75	1117	98	97-99	825	96	95-97	
H. Fixation									
Cemented	11,166	561	6615	97	96-97	2734	92	91-93	
Uncemented	259	112	212	87	81-91	115	61	54-68	< 0.0001
Hybrid	172	28	139	95	90-97	90	84	75-89	
Not recorded	9	7	0	-		0	-		