Appendix

TABLE E-1 Summary of Surgical Data from the KASTPain Sample (N = 384)

Variable	All* (N = 384)	Usual Care* (N = 132)	Arthritis Education* (N = 125)	Pain Coping Skills* (N = 127)
Cemented femoral implant (yes)	380 (99.0%)	131 (99.2%)	124 (99.2%)	125 (98.4%)
Cemented tibial implant (yes)	381 (99.2%)	131 (99.2%)	124 (99.2%)	126 (99.2%)
Patellar implant (yes)	353 (91.9%)	115 (87.1%)	117 (93.6%)	121 (95.3%)
Implant type				
Posterior cruciate-retaining	174 (45.3%)	60 (45.5%)	53 (42.4%)	61 (48.0%)
Posterior cruciate-substituting or stabilizing	189 (49.2%)	64 (48.5%)	64 (51.2%)	61 (48.0%)
Constrained condylar	19 (5.0%)	7 (5.3%)	7 (5.6%)	5 (3.9%)
Missing data	2 (0.5%)	1 (0.8%)	1 (0.8%)	0 (0.0%)
Manufacturer				
DePuy	97 (25.3%)	36 (27.3%)	33 (26.4%)	28 (22.0%)
Smith & Nephew	148 (38.5%)	46 (34.8%)	50 (40.0%)	52 (40.9%)
Stryker	55 (14.3%)	19 (14.4%)	17 (13.6%)	19 (15.0%)
Zimmer/Biomet	69 (18.0%)	24 (18.2%)	19 (15.2%)	26 (20.5%)
Other	15 (3.9%)	7 (5.3%)	6 (4.8%)	2 (1.6%)
Minimally invasive surgery (yes)	10 (2.6%)	2 (1.5%)	3 (2.4%)	5 (3.9%)

*The values are given as the number of participants, with the percentage in parentheses.

TABLE E-2 The Dichotomous Outcome of ≥50% Improvement in WOMAC Pain Scores Over the Study Period*

Effect	Odds Ratio†	P Value
Time		
2 months	Reference	
6 months	4.40 (2.10 to 9.19)	<0.001
12 months	10.40 (4.47 to 24.22)	<0.001
Group		
Usual care‡	Reference	
Arthritis education	0.78 (0.25 to 2.46)	0.364
Pain coping	0.54 (0.21 to 1.45)	0.190
Arthritis education		
6 months	1.60 (0.57 to 4.54)	0.268
12 months	1.03 (0.33 to 3.20)	0.399
Pain coping		
6 months	2.06 (0.71 to 6.00)	0.166
12 months	1.56 (0.49 to 4.95)	0.301

*The model was adjusted for sex, race, baseline pain, and age. †The values are given as the odds ratio, with the 95% CI in parentheses. ‡The usual care treatment group was the reference group in the time-by-treatment-group interaction estimates.

TABLE E-3 Post Hoc Analysis Comparing the 3 Treatment Groups After Excluding Participants with ≤4 Treatment Sessions (Per-Protocol Analysis)*

Time	Usual Care†	Arthritis Education†	Pain Coping Skills†
Baseline	11.4 (10.5 to 12.3)	11.2 (10.3 to 12.2)	11.6 (10.6 to 12.6)
2 months	6.2 (5.2 to 7.1)	6.0 (5.1 to 7.0)	6.7 (5.7 to 7.7)
6 months	4.5 (3.6 to 5.4)	3.7 (2.7 to 4.7)	4.2 (3.2 to 5.2)
12 months	3.0 (2.0 to 3.9)	3.8 (1.9 to 3.8)	3.6 (2.6 to 4.5)

*The analyses were performed using the same linear mixed effects modeling approach as described for the primary analysis.
Time: $F_{(3, 925.6)} = 606.1$, $p < 0.0001$. Treatment: $F_{(2, 310.3)} = 1.2$, $p = 0.3109$. Treatment × time: $F_{(6, 925.9)} = 0.7$, $p = 0.6190$.
†The values are given as the mean, with the 95% CI in parentheses.

TABLE E-4 Post Hoc Analysis Comparing the 3 Treatment Groups After Excluding Participants with Unicompartmental Arthroplasty (N = 17)*

Time	Usual Care†	Arthritis Education†	Pain Coping Skills†
Baseline	11.4 (10.5 to 12.4)	11.3 (10.3 to 12.2)	11.6 (10.6 to 12.5)
2 months	6.2 (5.3 to 7.2)	6.1 (5.1 to 7.1)	6.5 (5.5 to 7.5)
6 months	4.6 (3.6 to 5.5)	3.8 (2.8 to 4.8)	4.1 (3.1 to 5.1)
12 months	3.0 (2.0 to 3.9)	3.0 (2.0 to 4.0)	3.3 (2.4 to 4.4)

*The analyses were performed using the same linear mixed effects modeling approach as described for the primary analysis.
Time: $F(3, 995.1) = 657.4$, $p < 0.0001$. Treatment: $F(2, 351.9) = 0.6$, $p = 0.5704$. Treatment × time: $F(6, 995.2) = 0.6$, $p = 0.6961$.
†The values are given as the mean, with the 95% CI in parentheses.