

TABLE E-1 Patient Demographic and Baseline Clinical Characteristics

Characteristic*	Periarticular Injection (N = 50)	Epidural Analgesia (N = 61)	P Value
Age† (yr)	76.8 ± 6.7	76.9 ± 7.6	0.93‡
Sex (F/M)	43/7	52/9	0.91§
Side (R/L)	25/25	32/29	0.80§
Height† (cm)	148.9 ± 7.0	149.2 ± 7.2	0.83‡
Weight† (kg)	58.7 ± 8.6	57.5 ± 9.0	0.46‡
Body mass index† (kg/m ²)	26.4 ± 3.1	25.8 ± 3.3	0.28‡
Preop. diagnosis (OA/RA/osteonecrosis)	48/2/0	56/2/3	0.28§
History of diabetes mellitus (yes/no)	5/45	11/50	0.23§
Preop. VAS at rest† (points)	29.4 ± 23.8	23.6 ± 21.0	0.18‡
Preop. VAS during activity† (points)	56.7 ± 20.8	48.0 ± 26.3	0.076‡
Preop. flexion angle† (deg)	120.3 ± 23.2	126.2 ± 17.9	0.13‡
Preop. extension angle† (deg)	-10.0 ± 7.5	-10.4 ± 7.9	0.78‡
Surgical approach (subvastus/lateral)	49/1	60/1	0.89§
Intraop. blood loss† (mL)	435.6 ± 183.9	411.5 ± 175.9	0.48‡
Duration of operation† (min)	83.0 ± 8.48	78.7 ± 10.2	0.018‡

*OA = osteoarthritis, RA = rheumatoid arthritis, and VAS = visual analog scale. †The values are given as the mean and the standard deviation. ‡P values were determined with the Student t test. §P values were determined with the chi-square test.

TABLE E-2 Range of Motion Following Total Knee Arthroplasty			
	Periarticular Injection* (N = 50)	Epidural Analgesia* (N = 61)	P Value†
Flexion angle (deg)			
Postop. day			
1	64.2 ± 15.5	54.6 ± 17.2	0.0072
2	70.3 ± 11.1	64.6 ± 11.8	0.021
3	76.6 ± 13.5	75.4 ± 12.6	0.70
4	81.2 ± 9.8	78.7 ± 11.8	0.19
5	84.0 ± 9.4	81.2 ± 11.2	0.27
6	84.7 ± 12.2	82.6 ± 10.2	0.45
7	86.8 ± 10.4	84.8 ± 10.5	0.36
8	88.2 ± 11.1	86.6 ± 10.5	0.50
9	89.8 ± 10.7	89.0 ± 11.1	0.76
10	90.5 ± 11.6	90.7 ± 11.9	0.94
11	91.8 ± 11.0	90.3 ± 11.9	0.61
12	92.8 ± 11.1	87.6 ± 18.8	0.19
13	95.6 ± 13.0	93.3 ± 12.0	0.48
14	95.2 ± 14.4	93.9 ± 12.5	0.63
1 mo postop.	103.0 ± 13.5	101.1 ± 15.1	0.54
3 mo postop.	107.9 ± 15.8	106.2 ± 14.7	0.65
Extension angle (deg)			
Postop. day			
1	-8.1 ± 4.9	-9.3 ± 5.4	0.27
2	-9.1 ± 5.7	-9.7 ± 4.9	0.62
3	-10.0 ± 5.4	-9.5 ± 4.1	0.66
4	-8.7 ± 4.8	-9.2 ± 4.2	0.62
5	-8.8 ± 5.2	-9.5 ± 3.3	0.56
6	-8.5 ± 5.1	-8.6 ± 3.7	0.87
7	-8.3 ± 4.5	-8.5 ± 3.6	0.84
8	-8.1 ± 4.4	-8.2 ± 3.3	0.85
9	-7.9 ± 4.4	-7.9 ± 3.3	0.93
10	-8.4 ± 4.5	-7.0 ± 3.0	0.11
11	-7.6 ± 4.5	-7.4 ± 4.3	0.88
12	-7.0 ± 4.5	-7.8 ± 3.7	0.48
13	-7.4 ± 5.0	-6.9 ± 3.8	0.66
14	-7.3 ± 5.5	-6.9 ± 4.7	0.68
1 mo postop.	-6.5 ± 5.5	-5.2 ± 4.4	0.25
3 mo postop.	-5.5 ± 4.9	-4.3 ± 4.3	0.29

*The values are given as the mean and the standard deviation. †P values were determined with the Student t test.

TABLE E-3 Visual Analog Scale Score for Postoperative Pain at Rest			
Hours After Surgery	Periarticular Injection* (N = 50)	Epidural Analgesia* (N = 61)	P Value†
4	1.20 ± 5.21 (n = 50)	10.3 ± 22.6 (n = 61)	0.0061
6	3.06 ± 10.3 (n = 49)	9.33 ± 19.2 (n = 60)	0.042
8	7.02 ± 16.4 (n = 47)	14.5 ± 24.6 (n = 58)	0.076
10	5.23 ± 10.9 (n = 44)	13.7 ± 20.5 (n = 54)	0.015
12	8.24 ± 17.0 (n = 34)	11.2 ± 25.0 (n = 43)	0.56
14	8.57 ± 16.9 (n = 28)	8.38 ± 18.8 (n = 37)	0.97
16	5.22 ± 10.4 (n = 23)	15.8 ± 24.9 (n = 26)	0.064
18	5.63 ± 13.7 (n = 32)	15.6 ± 23.1 (n = 34)	0.038
20	7.75 ± 12.7 (n = 40)	15.7 ± 21.3 (n = 46)	0.043
22	6.76 ± 11.1 (n = 37)	16.1 ± 22.9 (n = 51)	0.025
24	10.8 ± 14.3 (n = 50)	22.1 ± 22.6 (n = 61)	0.0026
32	26.2 ± 25.6 (n = 47)	26.6 ± 26.0 (n = 56)	0.93
40	22.6 ± 17.3 (n = 46)	29.0 ± 24.0 (n = 57)	0.14
48	25.8 ± 18.1 (n = 48)	34.0 ± 22.5 (n = 60)	0.043
56	28.0 ± 20.0 (n = 45)	32.6 ± 21.9 (n = 55)	0.29
64	25.9 ± 17.0 (n = 44)	34.9 ± 23.6 (n = 55)	0.036
72	28.8 ± 20.6 (n = 49)	36.5 ± 22.5 (n = 57)	0.070

*The values are given as the mean score and the standard deviation. †P values were determined with the Student t test.