

TABLE E-1 Postoperative Bone Mineral Density Values in the Proximal Part of the Tibia

	Trabecular Metal Group (N = 28)		Cemented Tibial Component Group (N = 28)	
	Bone Mineral Density* (g/cm^2)	P Value†	Bone Mineral Density* (g/cm^2)	P Value†
Region 1 (medial)				
2 weeks	0.854 ± 0.236		1.098 ± 0.293	
6 months	0.661 ± 0.216	<0.001‡	0.742 ± 0.186	<0.001‡
12 months	0.581 ± 0.226	<0.001‡	0.662 ± 0.179	<0.001‡
18 months	0.519 ± 0.222	<0.001‡	0.621 ± 0.150	<0.001‡
24 months	0.458 ± 0.176	<0.001‡	0.640 ± 0.213	<0.001‡
Region 2 (central)				
2 weeks	0.657 ± 0.208		0.876 ± 0.257	
6 months	0.547 ± 0.115	0.009‡	0.795 ± 0.170	0.049‡
12 months	0.549 ± 0.147	0.012‡	0.803 ± 0.211	0.069
18 months	0.556 ± 0.153	0.019‡	0.736 ± 0.169	0.019‡
24 months	0.554 ± 0.140	0.017‡	0.784 ± 0.262	0.002‡
Region 3 (lateral)				
2 weeks	0.687 ± 0.234		0.922 ± 0.234	
6 months	0.693 ± 0.158	0.975	0.683 ± 0.139	<0.001‡
12 months	0.641 ± 0.204	0.238	0.666 ± 0.158	<0.001‡
18 months	0.617 ± 0.190	0.051	0.638 ± 0.148	<0.001‡
24 months	0.646 ± 0.210	0.335	0.635 ± 0.170	<0.001‡

*The values are expressed as the mean and the standard deviation. †The paired t test was used to compare the bone mineral density at two weeks with that at each subsequent measuring period. ‡Significantly different from the value at two weeks ($p < 0.05$).

TABLE E-2 Relative Change in Bone Mineral Density in Regions of Interest in Proximal Part of Tibia

	Trabecular Metal Group* (N = 28) (%)	Cemented Tibial Component Group* (N = 28) (%)	P Value†
2 weeks compared with 6 months			
Region 1	-19.1 ± 27.9	-29.0 ± 14.1	0.318
Region 2	-12.6 ± 22.0	-5.6 ± 23.1	0.250
Region 3	4.6 ± 27.9	-21.9 ± 21.4	0.0002‡
2 weeks compared with 12 months			
Region 1	-30.1 ± 25.1	-38.1 ± 15.0	0.276
Region 2	-10.2 ± 34.6	-5.8 ± 22.2	0.165
Region 3	-4.2 ± 28.2	-24.9 ± 19.9	0.007‡
2 weeks compared with 18 months			
Region 1	-36.8 ± 28.7	-40.7 ± 15.7	0.674
Region 2	-9.9 ± 25.2	-14.2 ± 18.1	0.627
Region 3	-8.1 ± 26.4	-28.4 ± 16.3	0.003‡
2 weeks compared with 24 months			
Region 1	-41.3 ± 19.5	-38.6 ± 23.3	0.390
Region 2	-7.9 ± 25.7	-13.8 ± 26.1	0.853
Region 3	-6.7 ± 22.9	-36.8 ± 24.2	0.002‡

*The values are expressed as the mean and the standard deviation. †The Mann-Whitney U test was used to compare the bone mineral density between the two groups. ‡Significant ($p < 0.05$).