

TABLE E-1 Distance in Each Direction and the Resultant Total Distance from the Geometric Center of the Intact Specimen to That of the Resurfacing and the Hemiarthroplasty Implant for Each Specimen

Specimen	Implant	Distance (mm)			
		Anterior-Posterior*	Superior-Inferior†	Medial-Lateral‡	Resultant§
1					
	Resurfacing	0.2	1.4	-0.8	1.6
	Hemiarthroplasty	-2.6	3.3	-2.9	5.1
2					
	Resurfacing	1.0	-1.4	1.7	2.4
	Hemiarthroplasty	-2.1	1.2	3.9	4.6
3					
	Resurfacing	-1.0	3.4	0.6	3.6
	Hemiarthroplasty	-5.2	3.1	-1.3	6.2
4					
	Resurfacing	-0.9	-1.5	0.5	1.9
	Hemiarthroplasty	0.9	4.7	-1.3	4.9
5					
	Resurfacing	2.2	0.9	-0.1	2.3
	Hemiarthroplasty	2.1	3.0	1.4	4.0
6					
	Resurfacing	2.0	1.4	-0.7	2.5
	Hemiarthroplasty	0.5	1.9	-2.7	3.4
7					
	Resurfacing	-0.6	-0.4	-0.8	1.0
	Hemiarthroplasty	-1.1	-4.6	-1.1	4.9
Mean and standard error					
	Resurfacing	0.4 ± 0.5	0.5 ± 0.7	0.1 ± 0.4	2.2 ± 0.3
	Hemiarthroplasty	-1.1 ± 0.9	1.8 ± 1.2	-0.6 ± 0.9	4.7 ± 0.3
Mean and standard error of absolute value					
	Resurfacing	1.1 ± 0.3	1.5 ± 0.4	0.7 ± 0.2	2.2 ± 0.3
	Hemiarthroplasty	2.1 ± 0.6	3.1 ± 0.5	2.1 ± 0.9	4.7 ± 0.3

*A negative value indicates the posterior direction. †A negative value indicates the inferior direction. ‡A negative value indicates the lateral direction. §Resultant = $[(\text{anterior-posterior})^2 + (\text{superior-inferior})^2 + (\text{medial-lateral})^2]^{1/2}$.