

TABLE E-1 Functional Outcomes for Living Patients

	WOMAC physical function score	WOMAC pain score	WOMAC stiffness score	Harris hip score
Normative	1.80	0.01	0.40	
All Patients	15.0	2.0	2.0	83.88
Normative comparison	$p < 0.001$	$p < 0.001$	$p < 0.001$	
Unrevised	16.0	2.0	2.0	83.87
Revised	16.0	3.0	2.0	83.74
Unrevised and Radiographically Loose	11.0	4.0	2.0	84.25
Comparison between groups	$p = 0.551$	$p = 0.841$	$p = 0.994$	$p = 0.763$

TABLE E-2 Functional Data Compared with Comorbidities*

	WOMAC physical function score	WOMAC pain score	WOMAC stiffness score	Harris hip score
Number of Comorbidities				
0	7.0	0.0	1.0	91.19
1	14.5	3.0	3.0	85.92
≥2	30.0	7.5	2.0	73.79
	p = 0.015	p = 0.002	p = 0.007	p = 0.004
Musculoskeletal Comorbidities				
0	8.0	0.0	2.0	90.68
≥1	31.0	7.0	3.0	73.88
	p = 0.0002	p = 0.0001	p = 0.06	p = 0.0003

*Boldface indicates a significant difference.

TABLE E-3 Radiographic Results and Significant Associations with Clinical Findings

Variable	Value*	P Value†
Mean wear values:		
Linear	0.132 mm (0.027-0.323)	
Volumetric	30.08 mm ³ (9.0-92.0)	
Steady state	0.102 mm (0.013-0.298)	
Wear effect upon component survival:		
Linear wear compared with revision due to aseptic acetabular loosening	0.182 mm (0.103-0.323) vs 0.0915 mm (0.027-0.279)	0.0006
Steady state wear compared with revision due to aseptic acetabular loosening	0.138 mm (0.071-0.298) vs 0.0800 mm (0.013-0.210)	0.004
Linear wear compared with aseptic acetabular loosening	0.152 mm (0.042-0.323) vs 0.0890 mm (0.027-0.279)	0.014
Wear (linear) in relation to:		
Age (decade of life at implantation)		0.331
3rd decade	0.114 mm (0.035-0.127)	
4th decade	0.173 mm (0.027-0.323)	
5th decade	0.0985 mm (0.042-0.294)	
Gender		0.436
Male	0.119 mm (0.035-0.323)	
Female	0.112 mm (0.027-0.299)	
Femoral loosening		0.921
Yes	0.109 mm (0.027-0.323)	
No	0.119 mm (0.035-0.299)	
Presence of osteolysis		0.946
Yes	0.119 mm (0.027-0.299)	
No	0.114 mm (0.039-0.323)	
WOMAC physical function (Pearson correlation coefficient)	+0.136	0.343
Harris hip score (Pearson correlation coefficient)	−0.056	0.694

*The values are given as the mean with the range in parentheses.†Femoral cement grade, acetabular or femoral osteolysis, femoral debonding, or decade of life at implantation were not found to have a significant relationship with aseptic loosening or revision because of aseptic loosening of either the acetabular or the femoral component.