

TABLE E-1 Comparisons, Between the Treatment Groups, of Outcomes Measured with the General Questionnaire, Short Form-36, and American Academy of Orthopaedic Surgeons (AAOS) Lower Limb Module and Shoe-Comfort Scores

	Amputation	Lengthening	P Value	Power Value
General questionnaire (no. [%] of patients)	N = 35	N = 26		
Educational achievement			0.891	0.063
High school or less	23 (66%)	16 (62%)		
Post-secondary or college	12 (34%)	10 (38%)		
Employed	22 (63%)	18 (69%)	0.459	0.081
Income			0.236	0.447
<\$10,000	12 (34%)	4 (15%)		
\$10,000-\$25,000	12 (34%)	9 (35%)		
>\$25,000	11 (31%)	13 (50%)		
Receiving welfare/public assistance	7 (20%)	3 (12%)	0.412	0.143
Receiving SSI/SSDI	1 (3%)	3 (12%)	0.162	0.273
Has pain in limb	9 (26%)	6 (23%)	0.880	0.056
Regular use of pain medicines			0.909	0.068
None	29 (83%)	21 (81%)		
Non-narcotic medicines	3 (9%)	2 (8%)		
Narcotic medicines	3 (9%)	3 (12%)		
Participates in sports	11 (31%)	5 (19%)	0.324	0.188
Participates in recreational activities/hobbies	9 (26%)	4 (15%)	0.368	0.089
Limb restricts activity	6 (17%)	9 (35%)	0.096	0.347
Dislikes limb appearance	4 (11%)	3 (12%)	0.946	0.050
Mean comfort level wearing shorts (0-10)*	6.15	5.25	0.143	0.271
Satisfaction with treatment			0.742	0.100
Yes	23 (66%)	15 (58%)		
No	3 (9%)	3 (12%)		
Undecided	9 (26%)	8 (31%)		
Short Form-36 (mean of normative scores)	N = 21	N = 11		
Physical functioning	50.8	49.7	0.709	0.065
Physical role functioning	49.2	48.5	0.888	0.052
Bodily pain	56.4	53.0	0.349	0.145
General health	46.7	47.0	0.941	0.051
Vitality	53.4	49.8	0.229	0.209

Social functioning	49.9	48.8	0.718	0.064
Emotional role functioning	51.8	43.8	0.057	0.471
Mental health	48.3	46.0	0.520	0.094
Physical component summary	51.3	51.6	0.922	0.051
Mental component summary	50.1	45.0	0.116	0.332
AAOS Outcomes Instruments (mean of normative scores)	N = 20	N = 11		
Lower Limb Module	52.3	49.8	0.330	0.152
Shoe-comfort score	47.2	48.8	0.702	0.066

\*The value is given as the mean score.

TABLE E-2 Comparisons, Between the Treatment and Control Groups, of Outcomes Measured with the Beck Depression Inventory-II and Quality of Life Questionnaire

	Amputation	Lengthening	Control	P Value*	Comparisons†	Difference of the Means (95% Confidence Interval)	Power Value
Beck Depression Inventory-II	N = 34	N = 25	N = 28				
Mean score	0.77	1.24	2.11	0.022	A-L		0.204
					A-C	-1.36 (-2.30, -0.43)	
					L-C		0.286
Quality of Life Questionnaire (mean score)	N = 33	N = 26	N = 28				
Material well-being	51.6	51.2	42.8	<0.001	A-L		0.059
					A-C	8.8 (4.5, 13.1)	
					L-C	8.4 (3.8, 13.0)	
Physical well-being	53.5	51.2	44.7	0.0002	A-L		0.269
					A-C	8.5 (3.7, 13.4)	
					L-C	6.5 (1.3, 11.7)	
Personal growth	52.9	53.1	48.7	0.014	A-L		0.051
					A-C	4.2 (0.3, 8.1)	
					L-C	4.4 (0.2, 8.6)	
Marital relations	56.7	54.1	49.4	0.0007	A-L		0.436
					A-C	7.4 (2.8, 11.9)	
					L-C		0.581
Parent-child relations	54.8	54.4	48.3	0.003	A-L		0.057
					A-C	6.5 (1.8, 11.2)	
					L-C	6.1 (1.1, 11.1)	
Extended family relations	53.4	50.8	49.1	0.0256	A-L		0.426
					A-C	4.2 (0.4, 8.0)	
					L-C		0.154
Extramarital relations	52.1	51.8	49.4	0.143	A-L		0.057
					A-C		0.36
					L-C		0.3
Altruistic behavior	54.7	53.8	51.5	0.088	A-L		0.12
					A-C		0.466
					L-C		0.278
Political behavior	50.4	52.1	50.6	0.558	A-L		0.174

					A-C		0.052
					L-C		0.125
Job characteristics	52.4	52.1	47.9	0.028	A-L		0.501
					A-C	4.5 (0.1, 8.9)	
					L-C		0.594
Occupational relations	52.7	49.8	49	0.102	A-L		0.315
					A-C		0.407
					L-C		0.072
Job satisfiers	54	49.8	51.6	0.015	A-L‡	4.2 (0.7, 7.8)	
					A-C		0.285
					L-C		0.22
Creative/aesthetic behavior	56.8	52.7	51.9	0.015	A-L		0.904
					A-C	4.9 (0.5, 9.2)	
					L-C		0.067
Sports activity	52.6	48.8	49.7	0.114	A-L		0.424
					A-C		0.36
					L-C		0.072
Vacation behavior	55.8	53.9	48.9	<0.0001	A-L		0.284
					A-C	6.6 (3.0, 10.2)	
					L-C	5.0 (1.1, 8.9)	
Social desirability	54.7	51.8	47.5	<0.0001	A-L		0.778
					A-C	7.3 (3.6, 11.0)	
					L-C	4.3 (0.4, 8.3)	
Total quality of life	53.3	51.5	48.9	0.0003	A-L		0.52
					A-C	4.4 (1.9, 6.9)	
					L-C		0.557

\*The p value was derived with an analysis of variance comparing all three groups (A, L, and C). †A = amputation, L = lengthening, and C = control. ‡Only significant difference between treatment groups.