

Appendix

TABLE E-1 Distribution of Scores in the Study Group at 1 and 2-Year Follow-up (N = 294 Hips)

Patient-Reported Outcome Measure	1-Year Follow-up*	2-Year Follow-up*
HOOS (points)		
Pain	83.43 ± 17.45	84.15 ± 16.28
Symptoms	77.62 ± 18.53	77.36 ± 17.86
Activities of daily living	89.65 ± 14.44	89.37 ± 15.62
Sport and recreation	75.41 ± 23.30	76.59 ± 19.87
Quality of life	65.67 ± 25.79	65.82 ± 24.06
Modified Harris hip score (points)	82.85 ± 16.51	82.78 ± 15.32
WOMAC (points)		
Pain	86.37 ± 16.89	85.87 ± 16.07
Stiffness	79.17 ± 20.80	79.73 ± 21.35
Physical	89.70 ± 14.41	88.41 ± 16.07
Total	88.12 ± 14.81	88.34 ± 15.21

*The values are given as the mean and the standard deviation.

TABLE E-2 Internal Consistency (Reliability) of Patient-Reported Outcome Measures for Periacetabular Osteotomy

Patient-Reported Outcome Measure	Study Group* (N = 294)	Primary Periacetabular Osteotomy Subgroup* (N = 240)
HOOS (points)		
Pain	0.937† (0.927 to 0.947)	0.935‡ (0.927 to 0.946)
Symptoms	0.785† (0.744 to 0.821)	0.781‡ (0.741 to 0.820)
Activities of daily living	0.966† (0.960 to 0.971)	0.968‡ (0.962 to 0.973)
Sports and recreation	0.899† (0.879 to 0.917)	0.896‡ (0.877 to 0.915)
Quality of life	0.841† (0.809 to 0.869)	0.855‡ (0.827 to 0.878)
Modified Harris hip score (points)		
Gait	0.603 (0.518 to 0.675)	0.596 (0.516 to 0.671)
Activities	0.333 (0.199 to 0.449)	0.331 (0.206 to 0.443)
WOMAC (points)		
Pain	0.885† (0.863 to 0.905)	0.885‡ (0.865 to 0.902)
Stiffness	0.835† (0.793 to 0.869)	0.846‡ (0.809 to 0.874)
Physical	0.966† (0.960 to 0.971)	0.968‡ (0.963 to 0.974)

*The values are given as the Cronbach alpha, with the 95% CI in parentheses. All variables achieved significant correlation with a 2-tailed test. †These were values with an alpha of >0.7.

TABLE E-3 Validity of Patient-Reported Outcome Measures Compared with the SF-12 Physical Component Summary for Periacetabular Osteotomy

Patient-Reported Outcome Measure	Study Group* (N = 294)	Primary Periacetabular Osteotomy Subgroup* (N = 240)
HOOS (points)		
Pain	0.55† (0.46 to 0.62)	0.57† (0.49 to 0.64)
Symptoms	0.42† (0.33 to 0.51)	0.42† (0.33 to 0.52)
Activities of daily living	0.58† (0.49 to 0.65)	0.54† (0.46 to 0.62)
Sports and recreation	0.62† (0.54 to 0.68)	0.64† (0.57 to 0.71)
Quality of life	0.57† (0.48 to 0.64)	0.63† (0.55 to 0.69)
Modified Harris hip score (points)	0.62† (0.54 to 0.68)	0.61† (0.54 to 0.68)
WOMAC (points)		
Pain	0.53† (0.44 to 0.60)	0.52† (0.43 to 0.59)
Stiffness	0.38 (0.27 to 0.47)	0.38 (0.28 to 0.48)
Physical	0.58† (0.49 to 0.65)	0.53† (0.45 to 0.61)
Total	0.57† (0.49 to 0.65)	0.53† (0.45 to 0.61)

*The values are given as the Spearman correlation coefficient (ρ), with the 95% CI in parentheses. All variables achieved significant correlation with a 2-tailed test. †These values have a correlation coefficient ρ of ≥ 0.4 .

TABLE E-4 Responsiveness of Patient-Reported Outcome Measures for Periacetabular Osteotomy

Patient-Reported Outcome Measure	Study Group* (N = 294)	Primary Periacetabular Osteotomy Subgroup* (N = 240)
HOOS (points)		
Pain	0.35† (0.25 to 0.45)	0.33† (0.21 to 0.44)
Symptoms	0.32† (0.21 to 0.42)	0.32† (0.19 to 0.43)
Activities of daily living	0.34† (0.24 to 0.44)	0.34† (0.22 to 0.45)
Sport and recreation	0.34† (0.23 to 0.44)	0.35† (0.23 to 0.46)
Quality of life	0.34† (0.24 to 0.44)	0.34† (0.22 to 0.45)
Modified Harris hip score (points)	0.36† (0.26 to 0.46)	0.37† (0.25 to 0.47)
WOMAC (points)		
Pain	0.30 (0.20 to 0.41)	0.28 (0.16 to 0.39)
Stiffness	0.27 (0.16 to 0.37)	0.28 (0.16 to 0.39)
Physical	0.34† (0.24 to 0.44)	0.32† (0.19 to 0.43)
Total	0.35† (0.25 to 0.45)	0.32† (0.20 to 0.43)

*The values are given as the Spearman correlation coefficient (ρ) compared with the Global Perceived Effect score, with the 95% CI in parentheses. All variables achieved significant correlation with a 2-tailed test. †These Spearman correlation coefficients (ρ) were >0.3 .

TABLE E-5 Minimal Clinically Important Difference of Patient-Reported Outcome Measures for Periacetabular Osteotomy

Patient-Reported Outcome Measure	Study Group (N = 294)	Primary Periacetabular Osteotomy Subgroup (N = 240)
HOOS (points)		
Pain	10.3	10.3
Symptoms	10.2	10.1
Activities of daily living	10.8	10.8
Sport and recreation	12.6	12.6
Quality of life	11.2	11.8
Modified Harris hip score (points)	7.4	7.5
WOMAC (points)		
Pain	10.8	10.7
Stiffness	12.9	12.8
Physical	10.8	10.8
Total	10.4	10.4