

## Supplementary Material

**Table i.** Baseline disbalance at primary or secondary outcome measures, as assessed by linear regression.

Motion during healing measured by RSA	SHS	SHS "adjusted"	SHS with TSP	SHS with TSP "adjusted"
<b>Total translation, mm (95% CI)</b>				
0-1W	3.50 (0.63 to 6.36)	3.46 (1.05 to 5.87)	3.44 (1.00 to 5.89)	3,06 (0,99 to 5,14)
1-4W	6.32 (3.41 to 9.24)	6.29 (3.83 to 8.76)	6.23 (3.74 to 8.73)	5.84 (3.71 to 7.97)
1-8W	7.13 (4.14 to 10.11)	7.16 (4.61 to 9.71)	6.93 (4.48 to 9.38)	6.53 (4.45 to 8.61)
1-12W	7.52 (4.71 to 10.34)	7.51 (5.16 to 9.87)	7.38 (5.04 to 9.71)	6.96 (5.01 to 8.90)
1-26W	7.94 (4.95 to 10.93)	7.98 (5.43 to 10.54)	7.40 (5.01 - 10.73)	7.02 (5.02 to 9.03)
1-52W	7.81 (4.89 to 10.73)	7.77 (5.30 to 10.25)	6.87 (4.45 to 9.28)	6.48 (4.44 to 8.52)
<b>X-translation, mm (95% CI)</b>				
0-1W	-1.23 (-3.01 to 0.54)	-1.33 (-2.88 to 0.21)	-1.18 (-2.70 to 0.33)	-0.91 (-2.23 to 0.41)
1-4W	-2.75 (-4.56 to -0.95)	-2.84 (-4.42 to -1.27)	-2.77 (-4.31 to -1.23)	-2.50 (-3.85 to -1.15)
1-8W	-3.25 (-5.09 to -1.40)	-3.36 (-4.98 to -1.74)	-2.92 (-4.43 to -1.40)	-2.65 (-3.97 to -1.32)
1-12W	-3.13 (-4.87 to -1.38)	-3.23 (-4.74 to -1.72)	-2.84 (-4.29 to -1.39)	-2.56 (-3.81 to -1.31)
1-26W	-2.99 (-4.83 to -1.14)	-3.12 (-4.74 to -1.49)	-2.64 (-4.12 to -1.16)	-2.38 (-3.66 to -1.09)
1-52W	-2.65 (-4.46 to -0.84)	-2.75 (-4.33 to -1.17)	-2.31 (-3.81to -0.81)	-2.05 (-3.36 to -0.75)
<b>Y-translation, mm (95% CI)</b>				
0-1W	-3.09 (-5.48 to -0.70)	-3.04 (-5.06 to -1.01)	-2.72 (-4.76 to -0.69)	-2.42 (-4.16 to -0.68)
1-4W	-5.13 (-7.56 to -2.70)	-5.09 (-7.16 to -3.02)	-5.08 (-7.15 to -3.01)	-4.76 (-6.54 to -2.98)
1-8W	-6.03 (-8.51 to -3.54)	-6.03 (-8.16 to -3.90)	-5.64 (-7.68 to -3.60)	-5.31 (-7.05 to -3.57)
1-12W	-6.26 (-8.62 to -3.91)	-6.24 (-8.22 to -4.26)	-6.07 (-8.03 to -4.12)	-5.74 (-7.37 to -4.10)
1-26W	-6.59 (-9.08 to -4.11)	-6.60 (-8.73 to -4.47)	-6.31 (-8.30 to -4.31)	-6.00 (-7.69 to -4.32)
1-52W	-6.45 (-8.88 to -4.01)	-6.39 (-8.47 to -4.32)	-5.73 (-7.75 to -3.72)	-5.42 (-7.13 to -3.71)
<b>Z-translation, mm (95% CI)</b>				
0-1W	-0.75 (-1.88 to 0.40)		-0.50 (-1.46 to 0.47)	
1-4W	-0.75 (-1.90 to 0.40)		-0.98 (-1.97 to 0.00)	
1-8W	-0.55 (-1.73 to 0.63)		-1.48 (-2.44 to -0.51)	
1-12W	-0.95 ( -2.05 to 0.16)		-1.81 (-2.73 to -8.89)	
1-26W	-1.39 (-2.57 to -0.21)		-1.63 (-2.57 to -0.69)	
1-52W	-1.20 (-2.35 to -0.05)		-1.46 (-2.42 to -0.51)	
<b>X-rotation, degrees (95% CI)</b>				
0-1W	1.18 (-1.50 to 3.86)		1.60 (-0.67 to 3.87)	
1-4W	2.61 (-0.10 to 5.33)		1.24 (-1.07 to 3.54)	
1-8W	3.29 (0.52 to 6.05)		1.25 (-1.03 to 3.52)	
1-12W	3.03 (0.38 to 5.67)		0.44 ( -1.76 to 2.63)	
1-26W	2.80 (0.03 to 5.56)		1.23 (-1.00 to 3.47)	
1-52W	3.24 (0.52 to 5.96)		1.21 (-1.04 to 3.46)	
<b>Y-rotation, degrees (95% CI)</b>				
0-1W	1.20 (-1.97 to 4.37)		2.75 (0.05 to 5.44)	
1-4W	2.80 (-0.43 to 6.02)		2.02 (-0.72 to 4.77)	
1-8W	3.32 (0.03 to 6.62)		2.21 ((-0.50 to 4.92)	

1-12W	3.41 (0.29 to 6.54)		1.53 (-1.07 to 4.12)	
1-26W	3.87 ( 0.57 to 7.16)		2.23 (-0.41 to 4.87)	
1-52W	4.01 (0.78 to 7.24)		2.34 (-0.34 to 5.01)	
<b>Z-rotation, degrees (95% CI)</b>				
0-1W	-0.16 (-1.34 to 1.02)	0.01 (-1.15 to 1.14)	0.26 (-0.76 to 1.27)	0.14 (-0.84 to 1.12)
1-4W	0.17 (-1.03 to 1.38)	0.31 (-0.86 to 1.48)	-0.09 (-1.13 to 0.94)	-0.19 (-1.20 to 0.81)
1-8W	-0.16 (-1.40 to 1.08)	-0.02 (-1.22 to 1.19)	-0.38 (-1.40 to -0.64)	-0.46 (-1.45 to 0.52)
1-12W	-0.30 (-1.46 to 0.86)	-0.16 (-1.28 to 0.97)	-1.11 (-2.07 to -0.15)	-1.21 (-2.14 to -0.28)
1-26W	-0.57 (-1.81 to 0.67)	-0.43 (-1.63 to 0.78)	-1.14 (-2.12 to -0.15)	-1.22 (-2.18 to -0.27)
1-52W	0.81 (-2.01 to 0.40)	-0.65 (-1.82 to 0.53)	-0.82 (-1.82 to 0.18)	-0.92 (-1.89 to 0.05)

*CI, confidence interval; RSA, radiostereometric analysis; SHS, sliding hip screw; TSP, trochanteric stabilizing plate.*

**Table ii.** Clinical outcome measures at one year with comparable results at earlier time points.

<b>Mean clinical outcome measure (95% CI)</b>	<b>SHS</b>	<b>SHS with TSP</b>
<b>EQ-5D Index</b>		
4W	0.54 (0.43 to 0.65)	0.47 (0.38 to 0.57)
8W	0.71 (0.61 to 0.81)	0.59 (0.49 to 0.69)
12W	0.74 (0.64 to 0.85)	0.67 (0.57 to 0.76)
26W	0.71 (0.60 to 0.82)	0.75 (0.65 to 0.84)
52W	0.78 (0.68 to 0.88)	0.75 (0.66 to 0.84)
<b>Harris Hip Score</b>		
4W	45 (37 to 53)	51 (44 to 58)
8W	63 (55 to 70)	63 (55 to 70)
12W	64 (56 to 71)	70 (63 to 77)
26W	70 (62 to 78)	78 (71 to 85)
52W	76 (67 to 86)	81 (74 to 88)
<b>TUG test</b>		
4W	20.1 (16.4 to 23.8)	21.2 (17.6 to 24.7)
8W	17.3 (13.8 to 20.9)	18.6 (15.3 to 21.9)
12W	14.7 (11.1 to 18.3)	16.3 (13.0 to 19.6)
26W	14.1 (10.5 to 17.8)	13.4 (10.1 to 16.7)
52W	15.0 (11.4 to 17.6)	14.3 (11.0 to 17.6)
<b>VAS pain</b>		
4W	3.6 (2.4 to 4.9)	3.8 (2.7 to 4.8)
8W	2.6 (1.6 to 3.6)	3.3 (2.3 to 4.4)
12W	2.7 (1.7 to 3.7)	2.1 (1.3 to 3.0)
26W	2.5 (1.4 to 3.6)	1.8 (0.8 to 2.7)
52W	0.9 (0.0 to 1.9)	1.1 (0.2 to 2.0)
<b>VAS satisfaction</b>		
4W	8.2 (6.8 to 9.6)	7.8 (6.6 to 8.9)
8W	8.3 (7.1 to 9.4)	6.9 (5.7 to 8.2)
12W	7.8 (6.7 to 8.9)	7.3 (6.3 to 8.3)
26W	8.0 (6.8 to 9.3)	7.7 (6.6 to 8.7)
52W	8.1 (7.0 to 9.2)	8.8 ( 7.8 to 9.9)

*CI, confidence interval; EQ-5D, EuroQol five-dimension; SHS, sliding hip screw; TSP, trochanteric stabilizing plate; TUG, Timed Up and Go; VAS, visual analogue scale.*