

Table 1

Changes in several functional outcome and 3-dimensional parameters before and 1 year after THA

		Pre THA	1 year after THA	p value
Knee extensor strength (operated side) (s)		33.2±13.1	43.0±11.5	<0.001
FRT (cm)		32.0 (29.5-37.0)	35.0 (31.0-40.0)	<0.001
10-m gait comfortable speed (m/s)		1.03 (0.89-1.21)	1.30 (1.10-1.40)	<0.001
10-m gait maximal speed (m/s)		1.40 (1.15-1.55)	1.75 (1.58-1.92)	<0.001
JOA hip score		53 (47-60)	98 (94-100)	<0.001

		pre THA	2 weeks after THA	p value
3-dimensional evaluation	Acetabular offset (mm)	95.4±5.9	88.9±4.4	<0.001
	Femoral offset (mm)	28.5±5.8	33.8±4.3	<0.001
	Global offset (mm)	123.9±8.0	122.6±6.4	0.023
	Leg length discrepancy (mm)	-5.6±6.4	0.3±5.6	<0.001
	Pelvic sagittal tilt (°)	2.51((-0.39)-6.68)	4.04((-0.39)-7.34)	0.036
	Femoral anteversion (°)	25.6±12.2	22.9±9.5	0.017
	Femoral rotational angle (°)	-1.1±10.7	-5.8±9.2	<0.001

THA, total hip arthroplasty; Pre, preoperative; FRT, functional reach test; JOA, Japanese Orthopaedic Association.