

Table S1 Changes in spino-pelvic parameters before and after TKA in male and female patients.

Parameter	Males (n=26)				Females (n=44)			
	Pre-TKA	Post-TKA	Δ	P	Pre-TKA	Post-TKA	Δ	P
HKA (°)	12.1±4.5	3.1±1.3	9.0±2.6	<0.001 [†]	13.2±5.1	3.6±2.1	9.6±2.9	<0.001 [†]
PT (°)	15.4±7.5	8.6±5.1	8.8±4.3	<0.001 [†]	18.0±9.1	10.7±6.4	7.3±4.0	<0.001 [†]
PI (°)	49.6±10.5	49.5±10.3	0.1±0.3	0.605 [†]	46.0±8.4	46.1±8.0	-0.1±0.5	0.856 [†]
SS (°)	34.4±9.9	40.7±8.5	-6.3±4.2	<0.001 [†]	28.0±7.7	35.3±7.8	-7.3±4.0	<0.001 [†]
TK (°)	39.8±5.8	38.6±6.3	1.2±2.3	0.081 [†]	40.2±8.4	39.0±9.2	1.2±1.9	0.079 [†]
LL (°)	45.2±5.5	47.2±5.8	-2.0±1.6	0.007 [†]	44.4±7.2	46.2±9.0	-1.8±1.4	0.009 [†]
SSA (°)	122.6±5.3	120.6±6.0	2.0±2.2	0.002 [†]	122.3±6.2	119.8±5.2	2.5±2.1	0.001 [†]
SVA (mm)	15.6 (23.1)	39.2 (21.3)	-28.6 (29.0)	<0.001 [‡]	19.2 (24.6)	41.6 (20.6)	-23.5 (22.4)	<0.001 [‡]
T1SPI (°)	2.0±5.1	-3.2±4.7	5.2±1.8	<0.001 [†]	3.4±4.6	-2.3±4.3	5.7±2.2	<0.001 [†]
T9SPI (°)	8.6±3.5	3.1±2.9	5.5±1.8	<0.001 [†]	9.9±5.1	3.7±4.7	6.2±2.4	<0.001 [†]
PO (°)	0.3 (2.5)	-0.1 (1.8)	-0.2 (2.2)	0.587 [‡]	-0.6 (2.8)	-0.2 (2.3)	-0.5 (2.3)	0.379 [‡]
C7-CSL (mm)	6.3 (9.2)	5.4 (7.2)	0.9 (3.5)	0.080 [‡]	3.0 (11.4)	1.8 (9.5)	1.2 (6.0)	0.075 [‡]

[†], the statistical value from the paired t-tests, with values presented as mean ±standard deviation; [‡], the statistical value from Wilcoxon signed-rank tests, with values presented as median (interquartile range). Δ , the difference between preoperative and postoperative values. HKA, hip-knee-ankle; PT, pelvic tilt; PI, pelvic incidence; SS, sacral slope; TK, thoracic kyphosis; LL, lumbar lordosis; SSA, spino sacral angle; SVA, sagittal vertical axis; CSL, central sacral line; T1SPI, T1 spinopelvic inclination; T9SPI, T9 spinopelvic inclination; PO, pelvic obliquity.