

Table 1 Results of ipsilateral load in walking

	group	n-gait	ip-gait	ip1-gait
extension moment (Nm/kg)	healthy	0.46±0.08	0.41±0.08	0.41±0.12
	dysplastic hip	0.35±0.17	0.29±0.16	0.29±0.14
flexion moment (Nm/kg)	healthy	0.29±0.10	0.31±0.06	0.29±0.15
	dysplastic hip	0.21±0.15	0.25±0.11	0.27±0.14
abduction moment (Nm/kg)	healthy	0.79±0.14	0.75±0.14	0.69±0.15 **
	dysplastic hip	0.73±0.07	0.69±0.07 *	0.63±0.05 **

significant difference of the n-gait and the others * p < 0.05 ** p < 0.01

Table 2 Results of contralateral load in walking

	group	n-gait	con-gait	con1-gait
extension moment (Nm/kg)	healthy	0.46±0.08	0.36±0.10 *	0.33±0.15 **
	dysplastic hip	0.35±0.17	0.25±0.13 *	0.27±0.14 *
flexion moment (Nm/kg)	healthy	0.29±0.10	0.28±0.08	0.31±0.13
	dysplastic hip	0.21±0.14	0.26±0.10	0.29±0.07
abduction moment (Nm/kg)	healthy	0.74±0.09	0.77±0.09	0.86±0.10 **
	dysplastic hip	0.73±0.07	0.77±0.07	0.84±0.08 **

significant difference of the n-gait and the others * p < 0.05 ** p < 0.01

Table 3 Results of walked at three different rates

	group	n-gait	60s/min	120s/min
extension moment (Nm/kg)	healthy	0.46±0.8	0.37±0.10	0.50±0.09 + #
	dysplastic hip	0.35±0.17	0.17±0.15 **	0.36±0.13 ++
flexion moment (Nm/kg)	healthy	0.29±0.10	0.25±0.08	0.38±0.14
	dysplastic hip	0.22±0.15	0.18±0.09	0.34±0.16 +
abduction moment (Nm/kg)	healthy	0.83±0.17	0.80±0.14	0.86±0.15
	dysplastic hip	0.73±0.07	0.74±0.07	0.75±0.07

significant difference of the n-gait and the others * p < 0.05 ** p < 0.01

significant difference of the 60-gait and the 120-gait + p < 0.05 ++ p < 0.01

significant difference of the healthy and acetabular dysplasia groups # p < 0.05

Table 4 Pelvis rotation angle in horizontal plane (deg.)

	n-gait	ip-gait	ip1-gait
healthy	14.94±3.98	15.35±4.54	13.69±3.29
dysplastic hip	13.39±3.99	11.83±3.24	12.42±2.07
	n-gait	con-gait	con1-gait
healthy	14.94±3.98	15.35±4.54	13.69±3.29
dysplastic hip	13.39±3.99	11.49±2.97	12.22±2.88
	n-gait	60s/min	120s/min
healthy	14.94±3.98	17.30±3.60	13.06±5.38
dysplastic hip	13.39±3.99	14.93±5.22	11.88±3.23