

Supplementary Information

Title of the manuscript: Effectiveness of Glenohumeral Joint Dilatation for Treatment of Frozen Shoulder: A Systematic Review and Meta-analysis of Randomized Controlled Trials

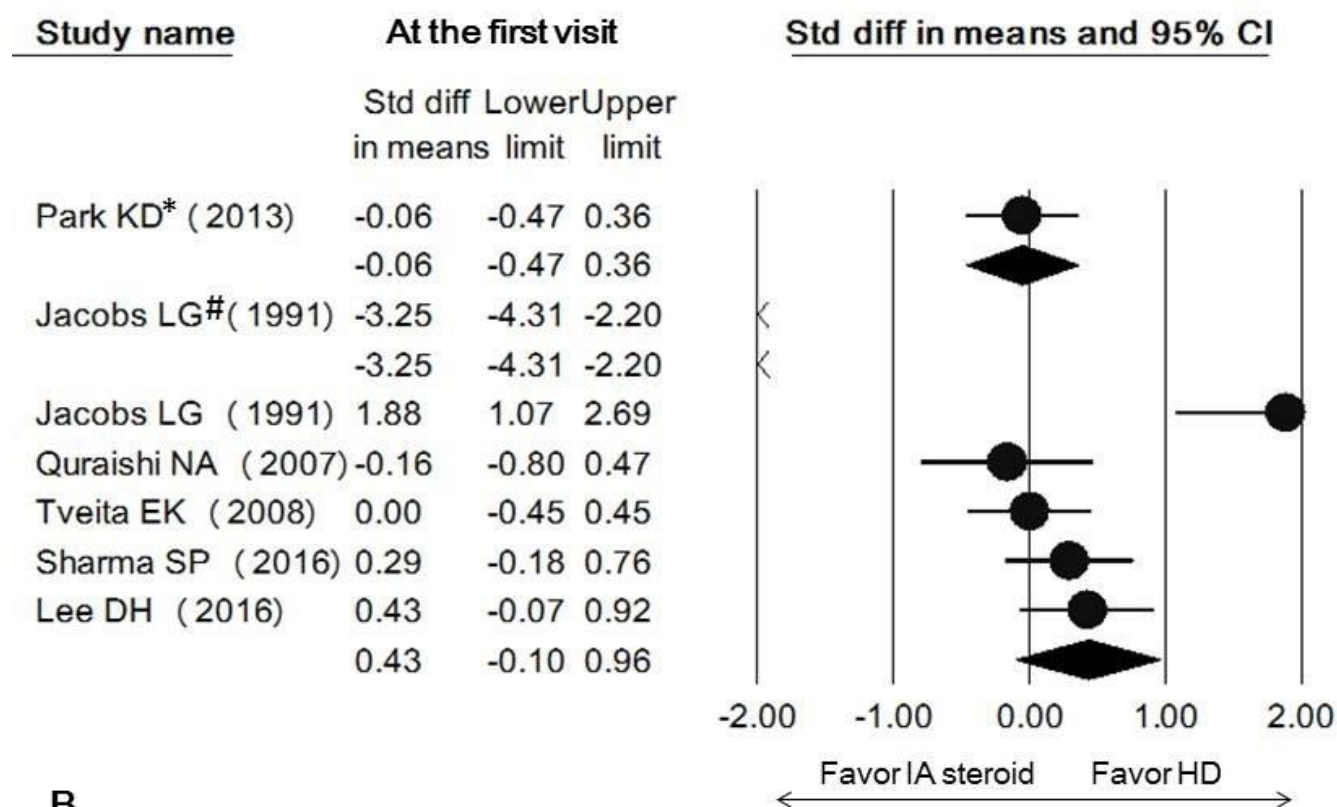
Full author list: Wei-Ting Wu, MD; Ke-Vin Chang, MD, PhD; Der-Sheng Han, MD, PhD; Chung-Hsun Chang, MD; Fu-Sui Yang, RN, BS; Chih-Peng Lin, MD, PhD

Annotation: * denotes the regimen using hyaluronic acid instead of corticosteroid; # denotes the distension fluid that did not contain corticosteroid.

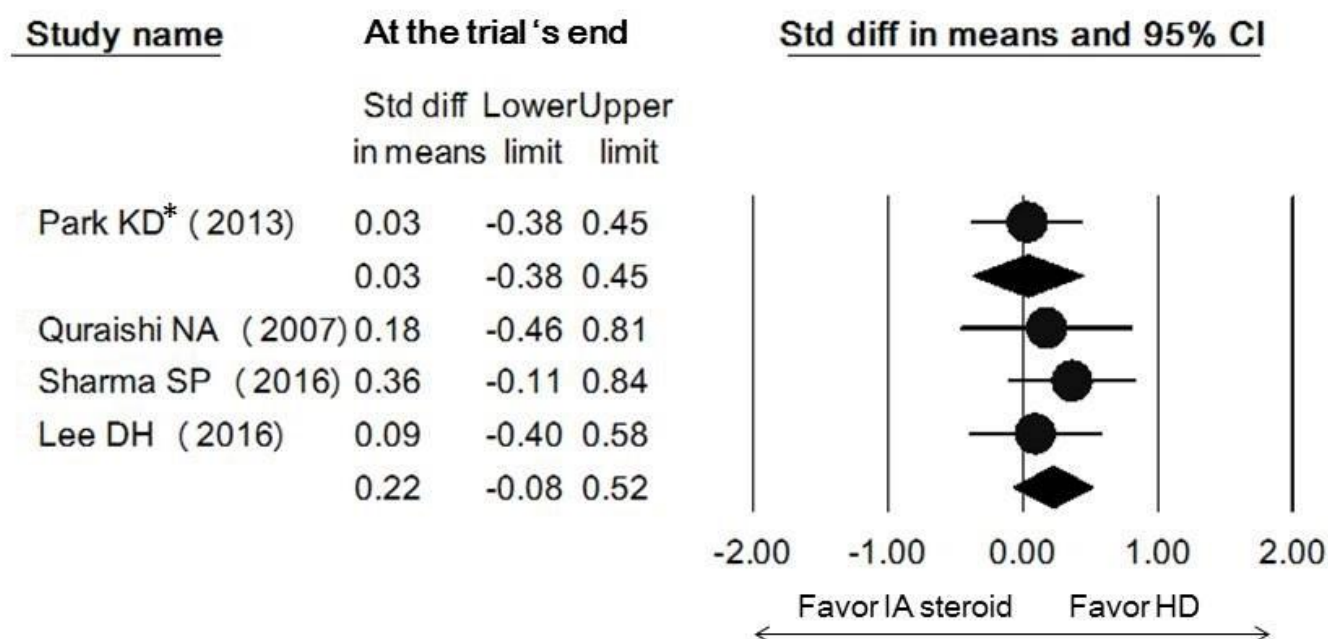
Abbreviations: HD, hydrodilatation; IA, intra-articular; SAI: subacromial injection; IM, intensive mobilization; GPT, general physical therapy; TAU, treatment as usual

Supplementary Figure 1S Abduction improvement (HD vs IA steroid)

A Abduction improvement



B



Supplementary Figure 2S Forward flexion improvement (HD vs IA steroid)

A

Forward flexion improvement

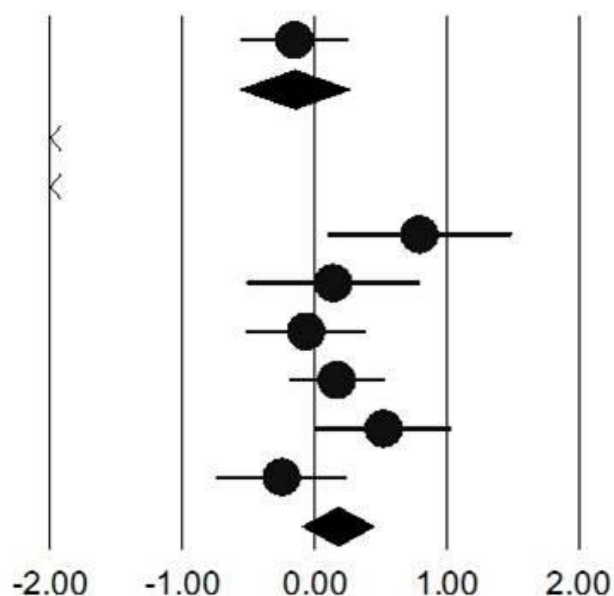
Study name

At the first visit

Std diff in means and 95% CI

Std diff LowerUpper
in means limit limit

Park KD [*] (2013)	-0.15	-0.57	0.26
	-0.15	-0.57	0.26
Jacobs LG [#] (1991)	-3.53	-4.61	-2.45
	-3.53	-4.61	-2.45
Jacobs LG (1991)	0.79	0.09	1.49
Quraishi NA (2007)	0.14	-0.51	0.80
Tveita EK (2008)	-0.06	-0.51	0.39
Mun SW (2016)	0.17	-0.19	0.53
Yong JP (2016)	0.52	0.01	1.04
Lee DH (2016)	-0.25	-0.74	0.24
	0.18	-0.10	0.45



B

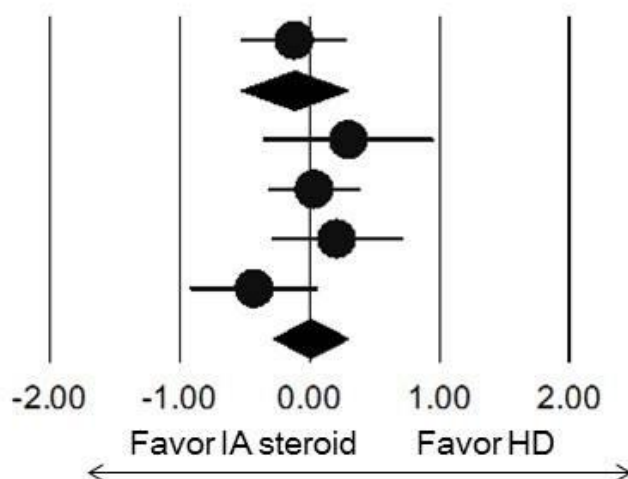
Study name

At the trial's end

Std diff in means and 95% CI

Std diff LowerUpper
in means limit limit

Park KD [*] (2013)	-0.12	-0.53	0.29
	-0.12	-0.53	0.29
Quraishi NA (2007)	0.30	-0.36	0.96
Mun SW (2016)	0.03	-0.33	0.39
Yong JP (2016)	0.21	-0.30	0.72
Lee DH (2016)	-0.43	-0.92	0.07
	0.00	-0.29	0.30



Supplementary Figure 3S Internal rotation improvement (HD vs IA steroid)

A

Internal rotation improvement

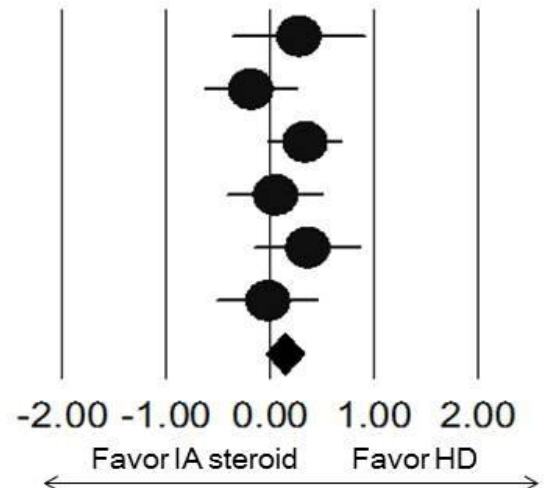
Study name

At the first visit

Std diff in means and 95% CI

Std diff in means Lower limit Upper limit

Quraishi NA (2007)	0.28	-0.36	0.92
Tveita EK (2008)	-0.18	-0.63	0.27
Mun SW (2016)	0.34	-0.02	0.70
Sharma SP (2016)	0.06	-0.41	0.52
Yong JP (2016)	0.37	-0.15	0.88
Lee DH (2016)	-0.02	-0.51	0.47
	0.15	-0.04	0.34



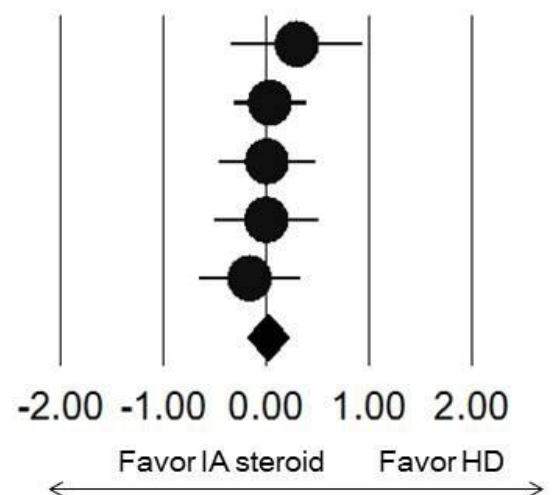
B

At the trial's end

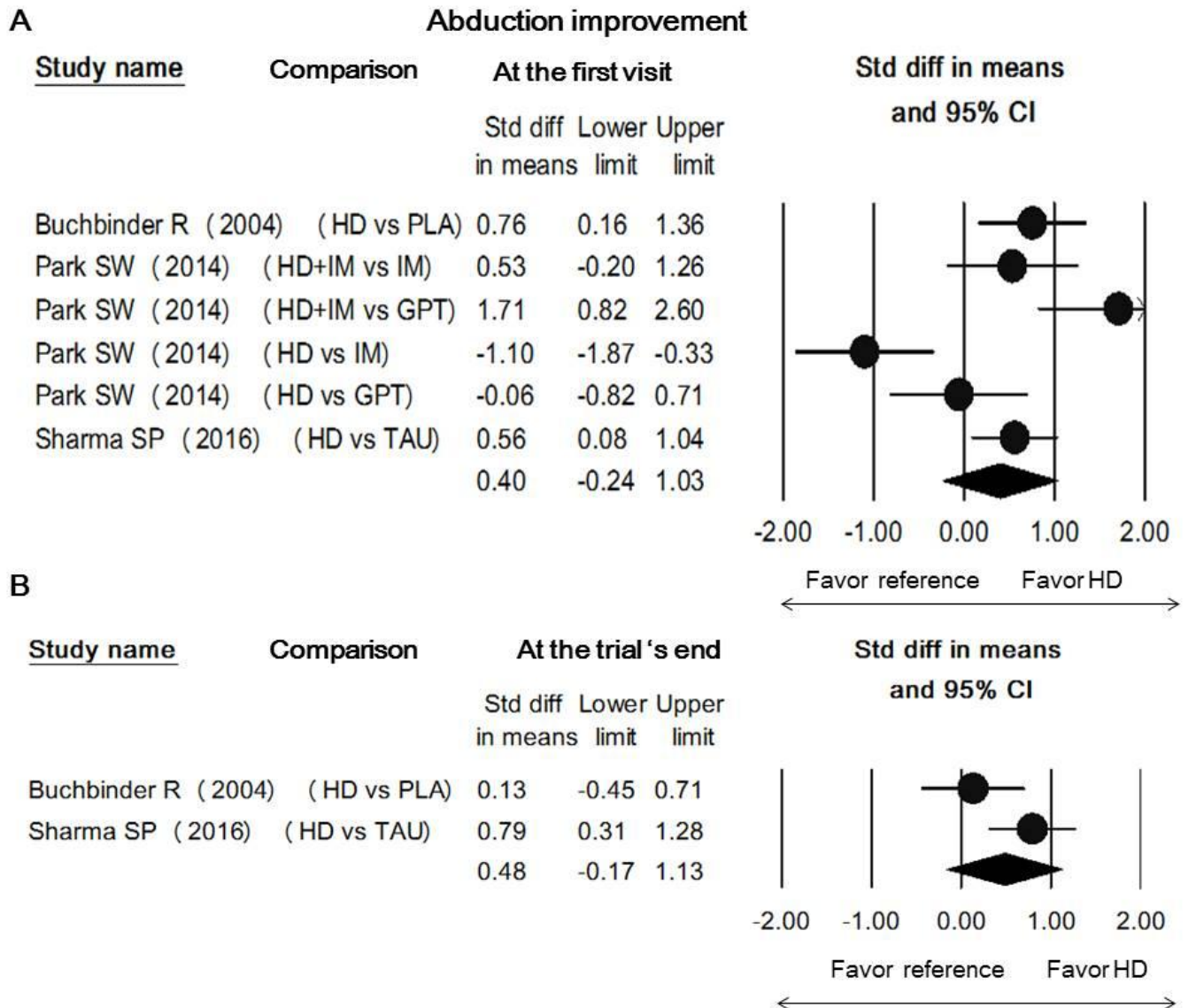
Std diff in means and 95% CI

Std diff in means Lower limit Upper limit

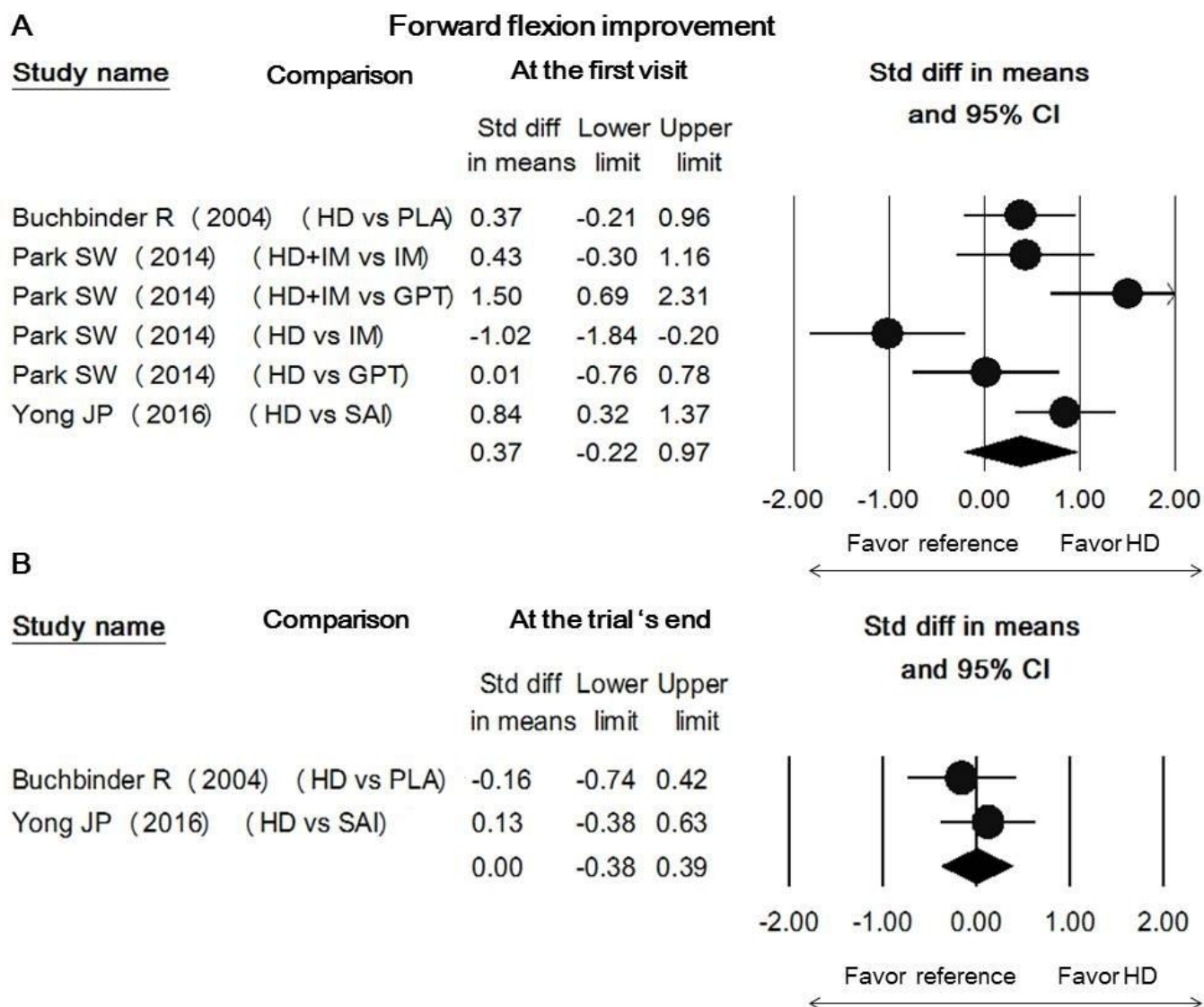
Quraishi NA (2007)	0.30	-0.34	0.94
Mun SW (2016)	0.04	-0.32	0.39
Sharma SP (2016)	0.01	-0.46	0.48
Yong JP (2016)	0.00	-0.51	0.51
Lee DH (2016)	-0.16	-0.65	0.33
	0.02	-0.19	0.22



Supplementary Figure 4S Abduction improvement (HD vs others)

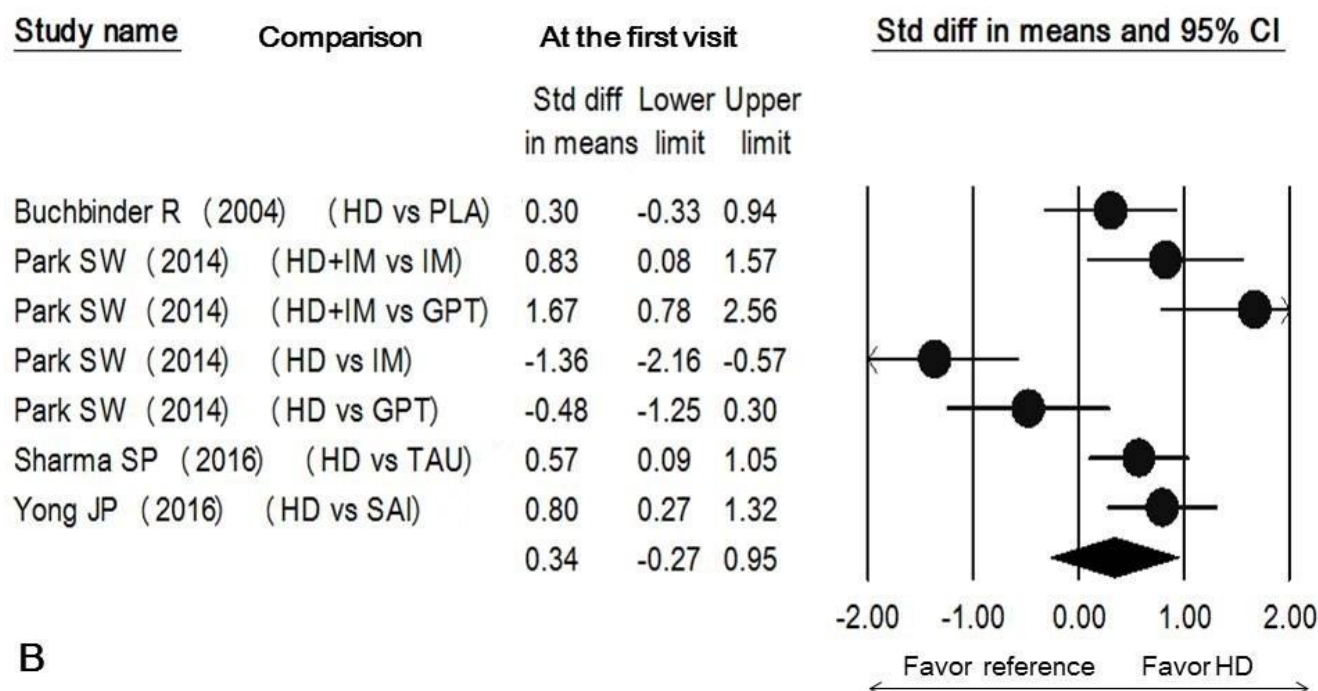


Supplementary Figure 5S Forward flexion improvement (HD vs others)



Supplementary Figure 6S External rotation improvement (HD vs others)

A External rotation improvement



B

