

Supplement 1

Table 1: The modified Jadad scale.

Eight items	Answer	Score
Was the study described as randomized?	Yes	+1
	No	0
Was the method of randomization appropriate?	Yes	+1
	No	-1
	Not described	0
Was the study described as blinding? ^a	Yes	+1
	No	0
Was the method of blinding appropriate?	Yes	+1
	No	-1
	Not described	0
Was there a description of withdrawals and dropouts?	Yes	+1
	No	0
Was there a clear description of the inclusion/exclusion criteria?	Yes	+1
	No	0

Was the method used to assess adverse effects described?	Yes	+1
	No	0
Was the methods of statistical analysis described?	Yes	+1
	No	0

a: double-blind got 1 score, single-blind got 0.5 score.

Table 2: Modified Jadad scores of the included studies.

Corresponding author	Was the research described as randomized? #	Was the approach of randomization appropriate?*	Was the research described as blinding? #	Was the approach of blinding appropriate?*	Was there a presentation of withdrawals and dropouts?#	Was there a presentation of the inclusion/exclusion criteria?#	Was the approach used to assess adverse effects described? #	Was the approach of statistical analysis described? #	Total
Baghaie.M, 2003	1	0	0	0	1	1	1	1	5
Koleini.N, 2004	1	1	0	0	1	1	1	1	6
Sadr Lahijani M.S, 2004	0	0	0	0	1	1	0	1	3
Fereshteh aein, 2005	1	1	0	0	1	1	0	1	5
Hassanpour Dehkordi, 2006	1	1	0	0	1	1	0	1	5
A.A. Khaki, 2007	0	0	0	0	1	1	1	0	3
Kermanian.F, 2008	1	1	0	0	1	1	1	1	6
Khami.M, 2009	1	1	0	0	1	1	1	1	6

Moghimian.M, 2010	1	1	0	0	1	1	1	0	5
Namnabati.M, 2010	0	0	0	0	1	1	0	0	2
Modanloo.M, 2010	1	0	0	0	1	1	1	0	4
Momeni Danaei.Sh, 2010	0	0	0	0	1	1	0	1	3
MA Hajbaghery, 2012	1	0	0	0	1	1	1	0	4
Naghavi Behzad.M, 2012	0	0	0	0	1	1	1	1	4
Panjehpour.M, 2012	0	0	0	0	1	1	0	0	2
Penjvini.S, 2013	1	0	0	0	1	1	1	1	5
Khatiban.M, 2013	1	0	0	0	1	1	1	1	5
Assadi.S.N, 2013	1	0	0	0	1	1	1	1	5
Dehghani.S.M, 2013	1	1	0	0	1	1	1	1	6

Sangestani.G, 2014	1	0	0	0	1	1	1	1	5
Sadeghzadeh.M , 2014	1	1	0	0	1	1	0	0	3
Rezaie.M.J, 2014	0	0	0	0	1	1	1	1	4
Jahanbani.J, 2015	0	0	0	0	1	1	1	0	3

Supplement 2

Figure 1: Subgroup analysis considering various learning method comparison

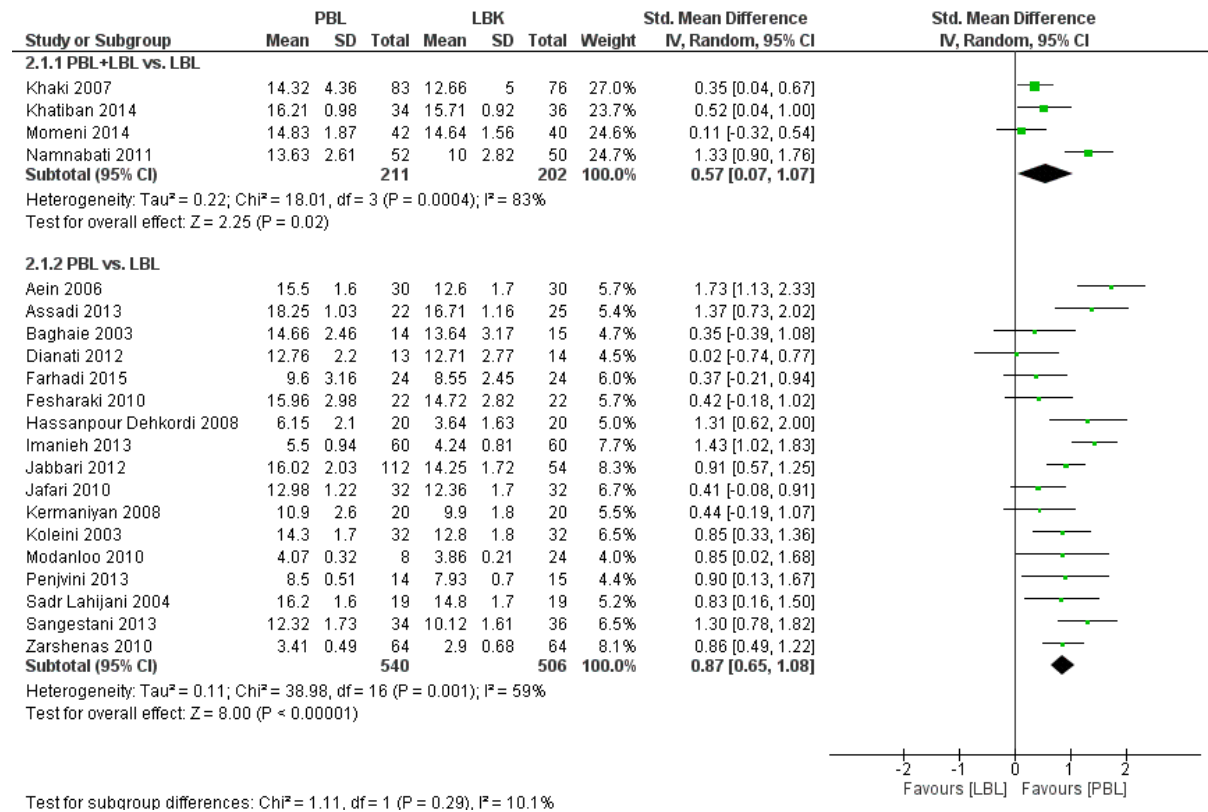


Figure 2: Subgroup analysis considering various discipline comparison

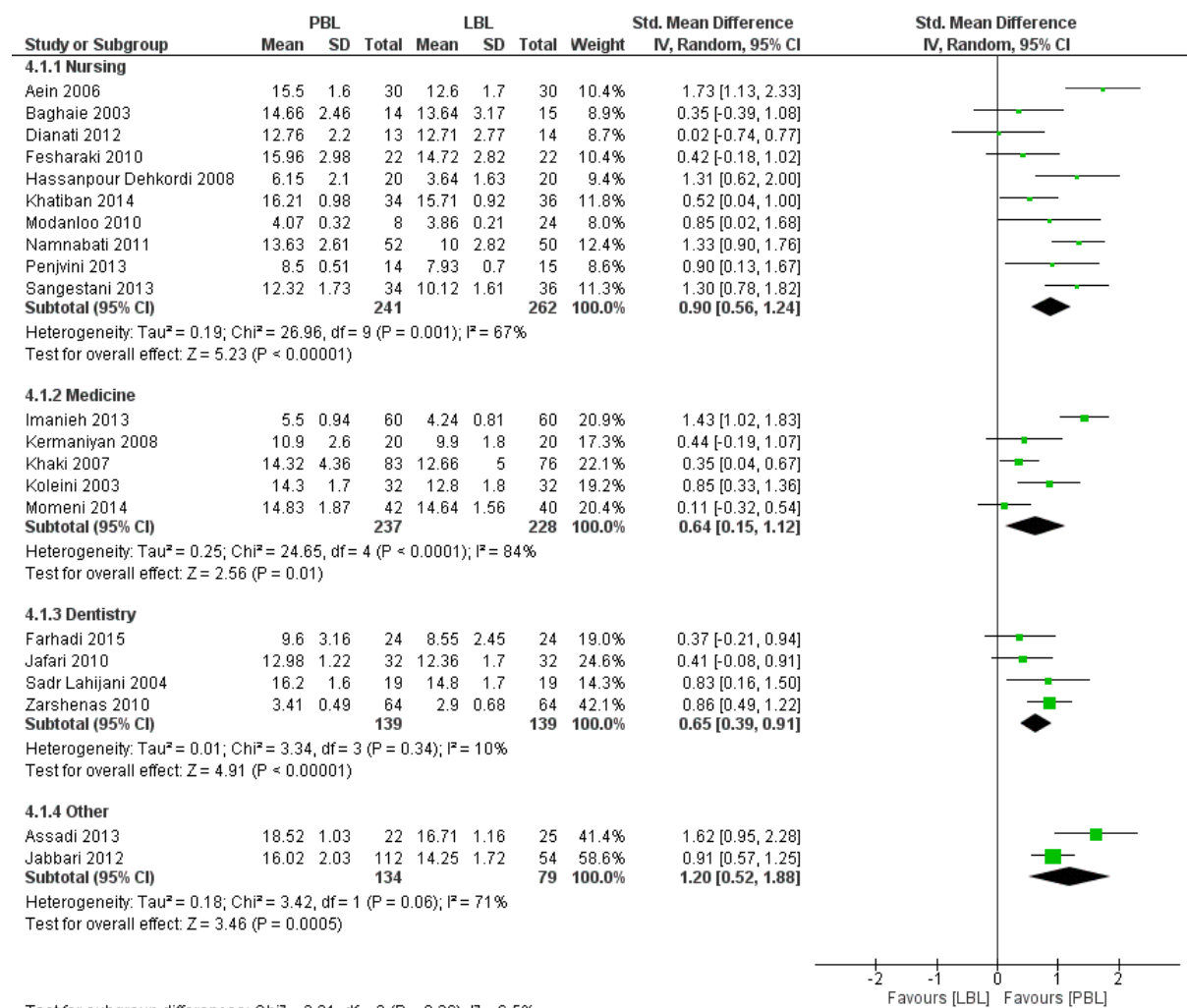


Figure 3: Subgroup analysis considering various grades comparison

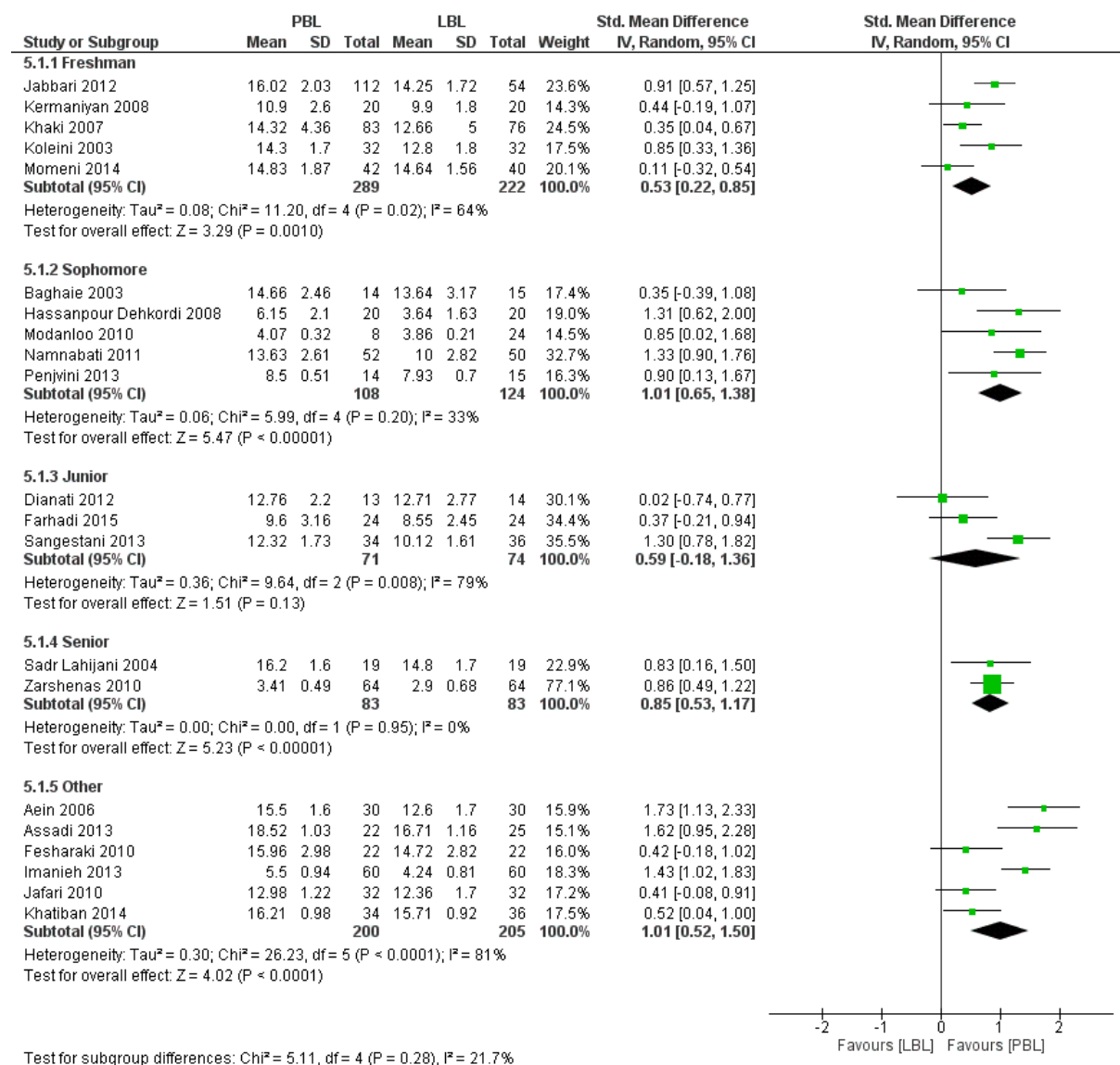
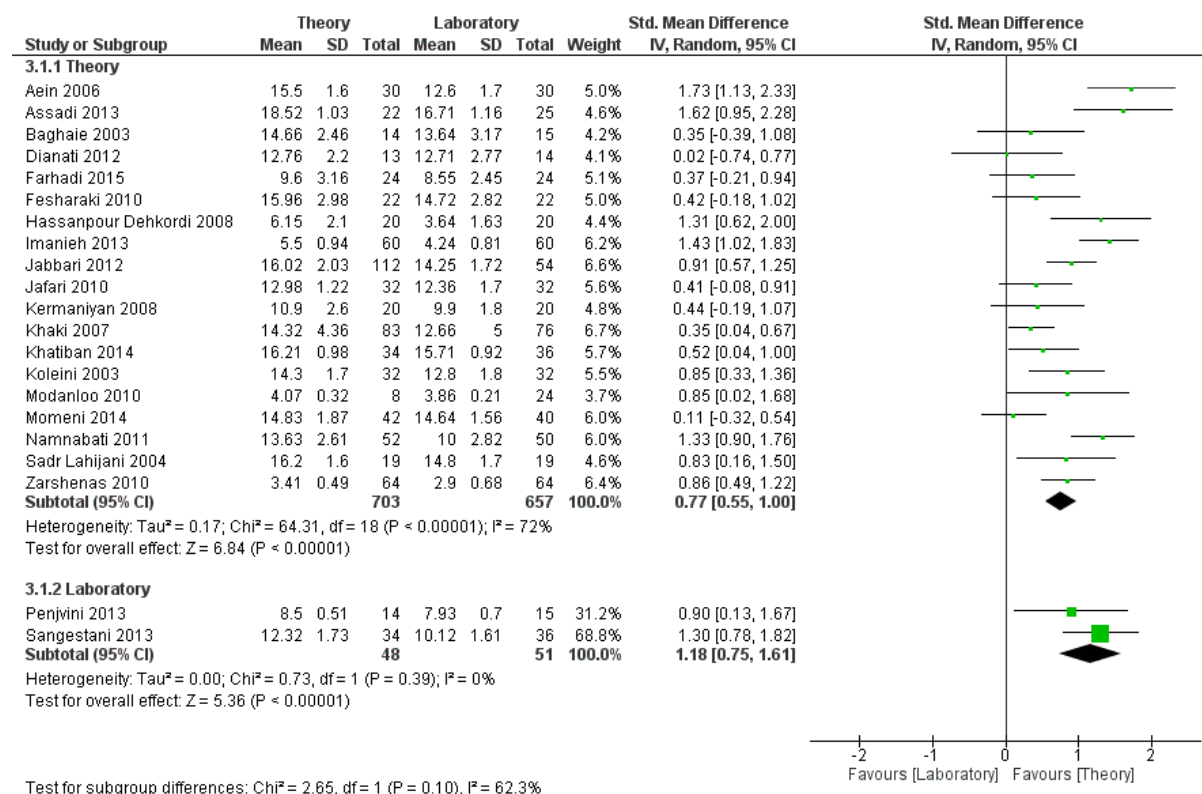


Figure 4: Subgroup analysis considering various study subjects comparison



Supplement 3

Figure 1: The funnel plot for the included studies based on the various learning method comparison

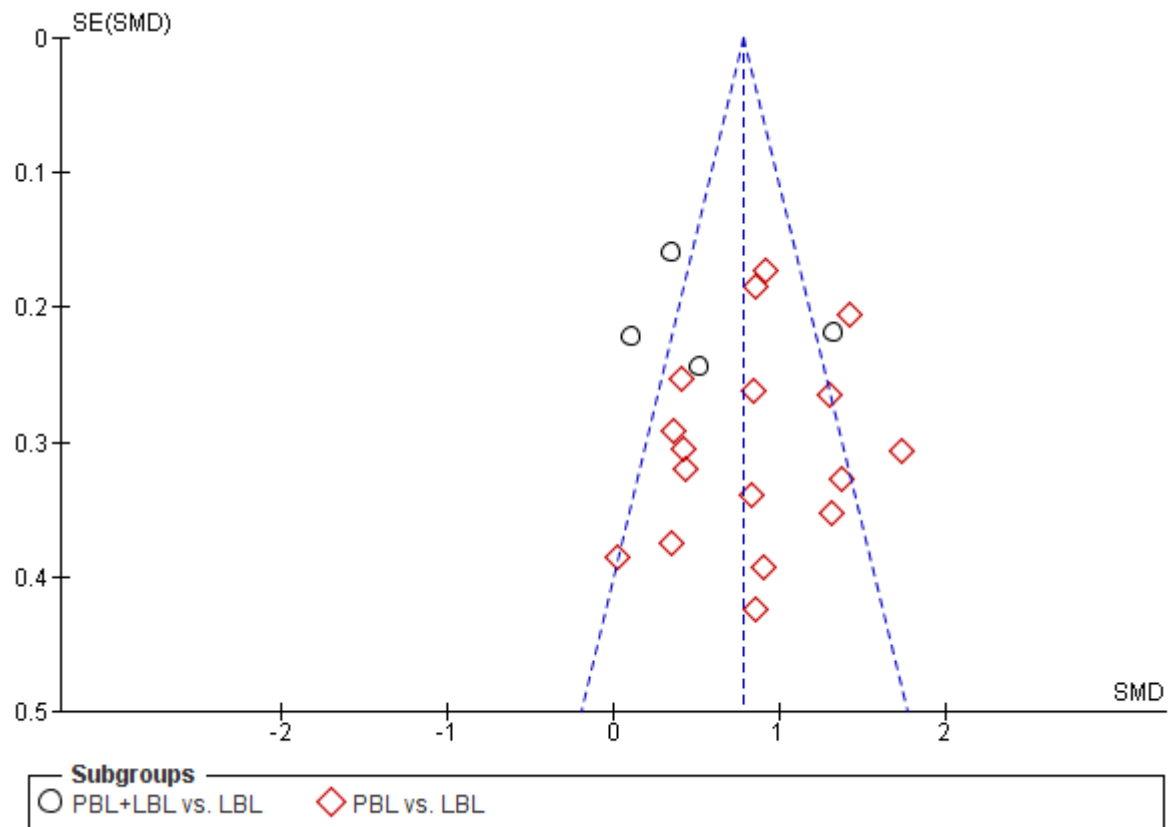


Figure 2: The funnel plot for the included studies based on the discipline comparison

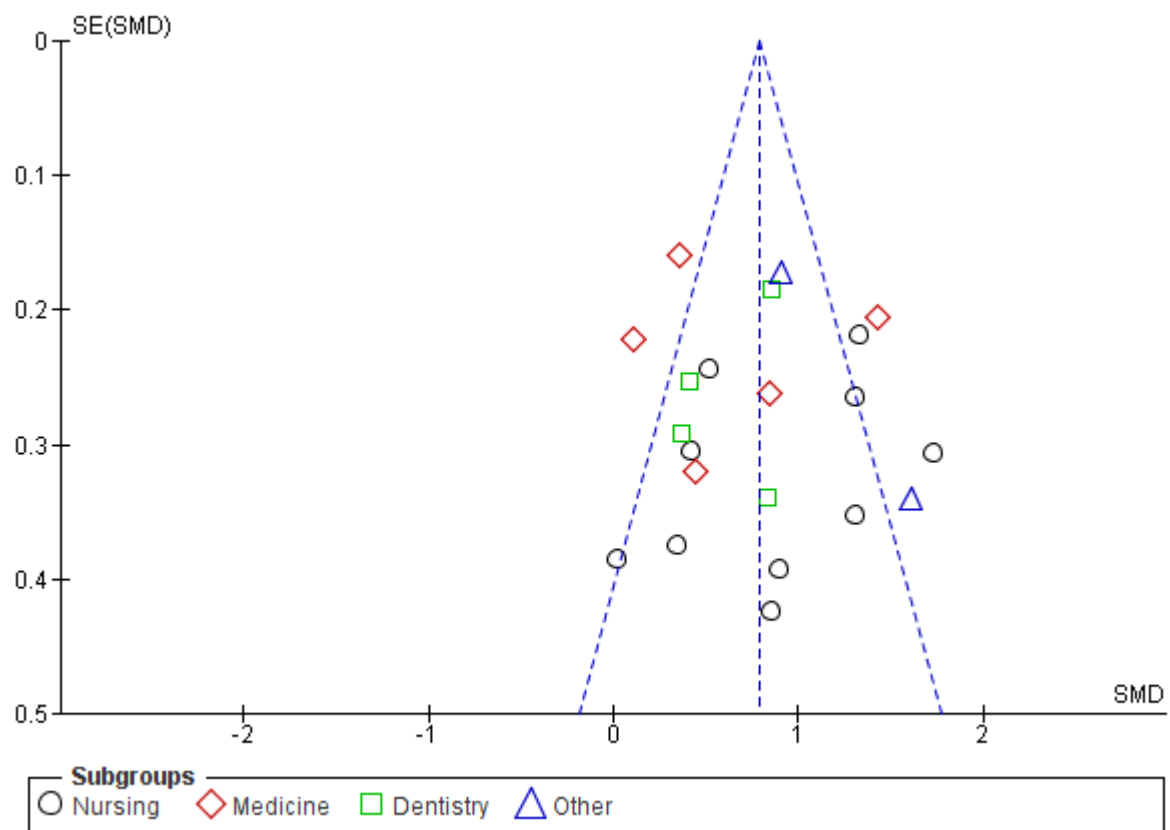


Figure 3: The funnel plot for the included studies based on the various grades comparison

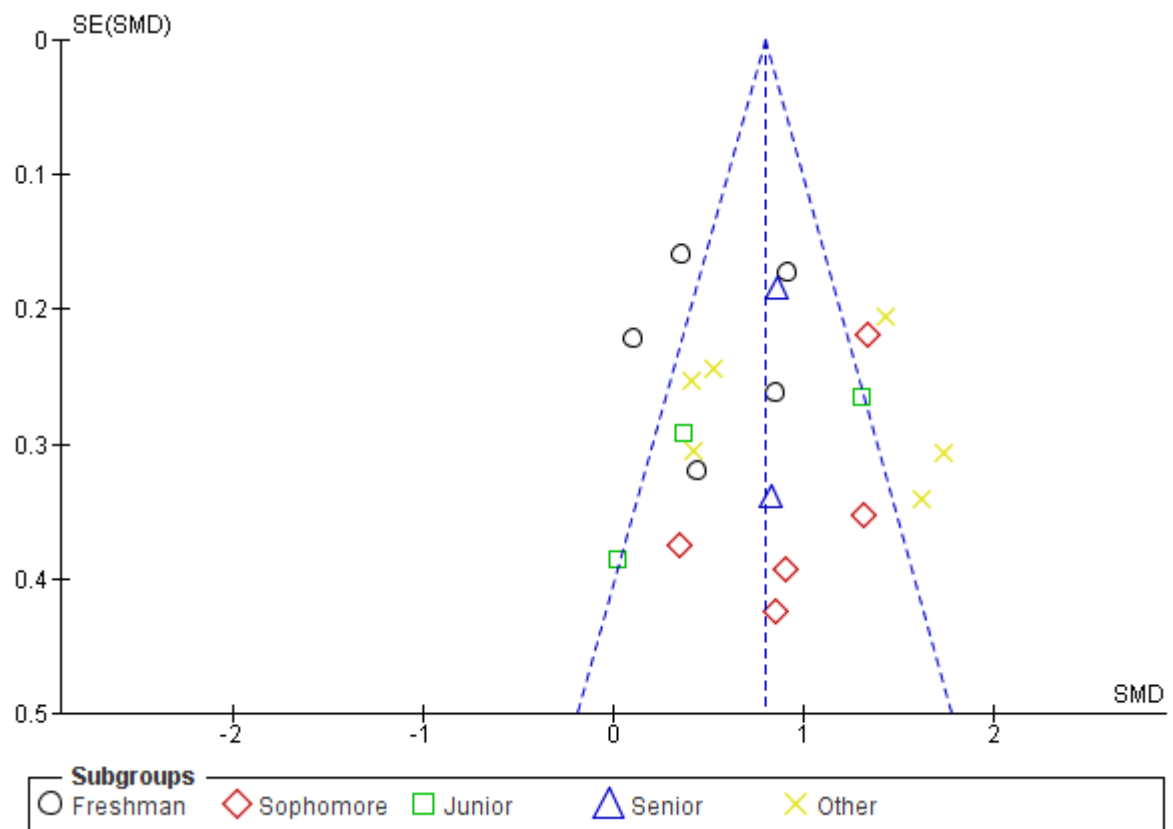


Figure 4: The funnel plot for the included studies based on the various study subjects comparison

