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Differences in self-concept between gifted and non-gifted students: A meta-analysis from 2005 to 2020

Álvaro Infantes-Paniagua*, Juan Gregorio Fernández-Bustos, Ascensión Palomares Ruiz, and Onofre R. Contreras-Jordán

Faculty of Education of Albacete, Universidad de Castilla-La Mancha, Albacete (Spain)

Supplementary material

Table S1a

Search strategies by database

Database	Number of records	Search strategy
ERIC	8099	("gifted" OR "talented" OR "talent" OR "giftedness" OR "high ability" OR "above average") AND ("non-gifted" OR "non-talented" OR "non-high ability" OR "average student" OR "average children" OR "average ability" OR "average pupil") AND ("child" OR "children" OR "preadolescent" OR "adolescent" OR "young" OR "student" OR "pupil") AND ("self-concept" OR "physical self-concept" OR "perceived competence" OR "self-esteem" OR "physical self-worth" OR "physical perceived competence" OR "physical self-perception" OR "physical appearance" OR "body image") AND ("comparison" OR "cross-sectional" OR "observational" OR "intervention")
PsycINFO (EBSCO)	1035	("gifted" OR "talented" OR "talent" OR "giftedness" OR "high ability" OR "above average") AND ("child" OR "children" OR "preadolescent" OR "adolescent" OR "young" OR "student" OR "pupil") AND ("self-concept" OR "physical self-concept" OR "perceived competence" OR "self-esteem" OR "physical self-worth" OR "physical perceived competence" OR "physical self-perception" OR "physical appearance" OR "body image")
Scopus	1093	("gifted" OR "talented" OR "talent" OR "giftedness" OR "high ability" OR "above average") AND ("non-gifted" OR "non-talented" OR "non-high ability" OR "average student" OR "average children" OR "average ability" OR "average pupil") AND ("child" OR "children" OR "preadolescent" OR "adolescent" OR "young" OR "student" OR "pupil") AND ("self-concept" OR "physical self-concept" OR "perceived competence" OR "self-esteem" OR "physical self-worth" OR "physical perceived competence" OR "physical self-perception" OR "physical appearance" OR "body image")
EBSCO Academic Search Ultimate	917	
Web of Science	568	("gifted" OR "talented" OR "talent" OR "giftedness" OR "high ability" OR "above average") AND ("child" OR "children" OR "preadolescent" OR "adolescent" OR "young" OR "student" OR "pupil") AND ("self-concept" OR "physical self-concept" OR "perceived competence" OR "self-esteem" OR "physical self-worth" OR "physical perceived competence" OR "physical self-perception" OR "physical appearance" OR "body image")
Total	11712	

Table S1b

Search strategies by specialised journals

Journal	Number of records	Search strategy
Gifted Child Quarterly	550 (140 since 2005)	("gifted" OR "talented" OR "talent" OR "giftedness" OR "high ability") AND ("child" OR "children" OR "preadolescent" OR "adolescent" OR "young" OR "student" OR "pupil") AND ("self-concept" OR "physical self-concept" OR "perceived competence" OR "self-esteem" OR "physical self-worth" OR "physical perceived competence" OR "physical self-perception" OR "physical appearance" OR "body image")
Journal for the Education of the Gifted	322 (115 since 2005)	
Journal of Advanced Academics	154 (94 since 2005)	
Roeper Review	609 (137 since 2005)	
High Ability Studies	145 (69 since 2005)	
Total	1708 (555 since 2005)	

Table S2a

Items from quality assessment based on Viswanathan & Berkman (2012)

1. Are critical inclusion/exclusion criteria for gifted identification/selection clearly stated (does not require the reader to infer)?

Yes (2 points):
If these are based on IQ tests, authors provide the name of tests and cut-offs points.
If these are based on examinations, they provide the cut-off points or percentiles.
If these are based on nominations, criteria are reported.
When the three previous methods are used, studies must meet those specifications.
If these are based on attendance to a special school/class/track/programme for the gifted, criteria for qualification must be given following those specifications.
Partially (1 point):
Authors only name tests/examinations or cut-offs points (e.g. IQ scores or percentiles); teachers/parents' nominations; or attendance to a special school / class / track / programme for the gifted are solely stated.
No (0 points):
No information about the criteria for being considered as a gifted or high ability student is reported.

2. Are the inclusion/exclusion criteria measured using valid and reliable measures?

Yes (2 points):
Tests are of extensive use (i.e. WISC or Raven's); or data regarding the reliability or validity are reported for less well-known tests.
Examinations are standardised (i.e. SAT).
No (1 points):
Only based on teachers or parents' nominations with no guidance or complementary instrument.
Cannot determine (0 points):
No information about tests or examinations is reported.

3. Did the study apply inclusion/exclusion criteria for identification uniformly to all comparison groups/arms of the study?

Yes (3 points):
IQ tests, examinations or nominations are the same across the different samples of gifted students. Also, both gifted and nongifted took the IQ tests, examinations and/or were (or not) nominated (in this case, nongifted had the opportunity to be nominated but it was not the only inclusion procedure).
Partially (2 points):
Generally, nomination is the only procedure common between both groups. No IQ tests or examinations (neither their scores) of the nongifted are reported, but they belong to the same classes/school/areas.
No (1 point):

Nongifted students are chosen as a comparison group with no opportunity to be nominated.
Nongifted sample is a norming sample.
Cannot determine (0 points):
No information is given.

4. Was the strategy for recruiting participants into the study the same across study groups/arms of the study?

Yes (2 points):
It is clearly explained (i.e. all participants were chosen by using the same procedures).
No (1 point):
It is clearly explained (i.e. norming sample or different procedure for the nongifted).
Cannot determine (0 points):
No information is given.

5. What is the level of detail in describing the intervention or exposure?

High (2 points):
The study clearly reports details of gifted participants' labelling status and/or attendance in programmes or special classes/school, time since they started or activities that they do. Twice exceptional cases can also be reported.
Medium (1 point):
Only attendance or labelling is stated, with no further details.
Low (0 points):
There is no clue about whether gifted participant had been labelled or were attending to special programmes for the gifted.

6. Is the analysis of differences on self-concept between gifted and nongifted one of the (pre-specified) aims of the study?

Yes (2 points):
Clearly stated.
Partially (1 point):
It is not the main aim, but these differences are addressed.
No (0 points):
No, these can only be inferred from the reported data.

7. Is the selection of the comparison group appropriate, after taking into account feasibility and ethical considerations.

Yes (3 points):
Same age range, classes/schools or locations. Any especial consideration addressing the comparison group is reported if appropriate.
Partially (2 points):
Same age range, classes/schools or locations, but it cannot be ensured that there are no gifted students (according to the identification procedures on the study) within the comparison group or the recruiting procedure was not clear for the nongifted.
No (1 point):
Norming sample (procedures and data gathering could vary).
Cannot determine (0 points):
There is not enough data to specify.

8. Any attempt to balance the allocation between the groups (e.g., through stratification, matching, propensity scores).

Yes, or study accounts for imbalance between groups through a post hoc approach such as multivariate analysis (1 point):
Always when addressing differences in self-concept. Also matching is appropriate.
No or cannot determine (0 points):
Just comparison between groups.

9. Did researchers isolate the impact from a concurrent intervention or an unintended exposure that might bias results, e.g., through multivariate analysis, stratification, or subgroup analysis?

Yes (2 points):
Comparison between different types of gifted students or attending to different programmes for the gifted and/or gender or age/grade effects are considered, as long as these are considered when addressing differences on self-concept.
Partially (1 point):
Only the possible effects are taken into account but only in preliminary analyses or without taking into account the differences on self-concept.
No or do not know (0 points):

Concurrent intervention or unintended exposure is not described, and no other effects are considered.

NA:

Qualitative study

10. Were the outcome assessors blinded to the intervention or exposure status of participants?

Yes (1 point):

The researcher did not know which group the subject belonged to until the testing was completed.

No or NA (0 points):

Assessor cannot be blinded.

11. Are outcomes assessed using valid and reliable measures, implemented consistently across all study participants?

Yes (2 points):

Self-concept measurement instruments are clearly reported and widely used. If these are not of extensive use, data on reliability or validity are reported.

No (1 point):

No information about the measurement is given.

Cannot determine or measurement approach not reported (0 points):

Data on reliability or validity are not reported and the instruments are not widely used.

12. Does the analysis control for baseline differences between groups?

Yes (1 point):

Differences in SES, age, gender prevalence, group allocation or achievement are reported [considered in the analyses on self-concept].

No (0 points):

No preliminary analyses are given.

13. Are confounding and/or effect modifying variables assessed using valid and reliable measures across all study participants?

Yes (2 points):

These can be age, sex/gender, SES, previous achievement, group allocation. These are based on attendance or provided by school, institutions or parents.

Partially (1 point):

Self-reported.

No or cannot determine (0 points)

14. Were the important confounding and effect modifying variables taken into account in the design and/or analysis (e.g., through matching, stratification, interaction terms, multivariate analysis, or other statistical adjustment)?

Yes (2 points):

SES, age, gender prevalence, group allocation or achievement.

Only if these are considered within the analyses on differences of self-concept (analyses of variance, regressions, etc.) or were considered in the matching procedure.

Partially (1 point):

Some variables taken into account or adjustment achieved to some extent. Addressed, but no entered within the gifted-nongifted differences analyses

No or Cannot determine (0 points)

15. Are any important primary outcomes missing from the results?

Yes (0 points):

Self-concept differences are not reported by sex and dimension are missing.

Partially (1 point):

Self-concept differences are not reported by sex or dimension are missing.

No (2 points):

Self-concept differences are reported by sex and dimension are reported. Even by type of student (i.e. ability groupings).

16. Is the source of funding identified?

Yes (1 point):

Self-explained

No (0 points):

Self-explained

Table S2b

Quality assessment scores and category based on Viswanathan & Berkman (2012)

Study	Item																Score	% Score	Risk of bias
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Alesi et al. (2015)	2	2	3	2	0	2	3	0	0	0	2	0	0	0	1	1	18	60.00	Moderate
Al-Srour & Al-Oweidi (2016)	1	0	0	1	1	2	2	0	1	0	2	0	0	0	1	0	11	36.67	High
Amini (2005)	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	6	20.00	High
Benölken (2015)	1	0	0	1	1	2	2	0	1	0	2	0	1	1	2	0	14	46.67	High
Bénony (2007)	2	2	3	2	2	2	3	1	1	0	2	1	2	2	1	0	26	86.67	Low
Bergold et al. (2020)	2	2	3	2	2	1	3	1	2	1	2	1	1	2	1	1	27	90.00	Low
Edins (2010)	1	2	0	2	1	2	2	0	0	1	0	1	2	0	1	0	15	50.00	High
García, Canuto & Cebrián (2019) y García, Canuto & Palomares (2019)	0	0	2	0	0	2	2	0	0	1	2	0	2	0	1	0	12	40.00	High
Ghobary & Hejazi (2007)	1	0	0	0	1	2	2	1	1	0	2	0	2	1	2	0	15	50.00	High
Golle (2018)	1	1	3	2	2	1	3	1	2	1	2	1	2	2	0	1	25	83.33	Low
Hasanagić et al. (2019)	0	0	2	0	1	2	2	1	1	0	2	0	1	2	2	0	16	53.33	Moderate
Herrmann et al. (2016) incluye Preckel & Brüll (2010)	1	2	3	2	1	2	3	0	1	0	2	1	0	1	1	1	21	70.00	Moderate
Košir et al. (2016)	2	2	0	2	1	2	3	0	1	0	2	1	2	1	2	1	22	73.33	Moderate
Kroesbergen et al. (2016)	2	2	3	2	0	2	3	1	2	0	2	1	2	1	1	1	25	83.33	Low
Lee et al. (2012b)	2	2	1	1	2	2	1	0	1	0	2	0	2	1	1	1	19	63.33	Moderate
Li & Shi (2019)	2	2	3	2	1	1	3	0	0	0	2	1	0	0	1	1	19	63.33	Moderate
Liem et al. (2015)	1	2	3	2	1	2	3	0	1	0	2	1	2	1	1	1	23	76.67	Low
López & Sotillo (2009)	2	2	3	0	1	2	0	1	1	0	2	0	0	1	1	1	17	56.67	Moderate
Mofield & Parker (2018)	2	0	0	2	2	1	3	0	1	0	2	0	2	1	1	1	18	60.00	Moderate
Preckel & Brüll (2008)	1	2	3	2	1	1	3	0	1	0	2	1	2	1	2	0	22	73.33	Moderate
Preckel et al. (2008)	2	2	3	1	0	2	3	1	1	1	2	1	0	2	2	1	24	80.00	Low
Preckel et al. (2010)	1	2	3	2	1	1	3	0	1	0	2	1	0	1	1	0	19	63.33	Moderate
Preckel et al. (2017) y Preckel et al. (2019)	2	2	3	2	2	1	3	0	2	0	2	1	1	2	1	1	25	83.33	Low
Rafati et al. (2014)	1	0	0	2	1	2	3	1	1	0	2	0	0	1	0	0	14	46.67	High
Riaz & Shahzad (2010)	2	2	3	2	0	2	3	0	0	0	2	0	1	0	1	0	18	60.00	Moderate
Sarouphim (2011)	2	2	3	2	0	2	3	0	1	1	2	0	0	1	1	0	20	66.67	Moderate
Shechtman & Silektor (2012)	2	2	0	2	2	2	3	0	2	0	2	1	2	2	1	0	23	76.67	Low
Shi et al. (2008)	2	2	3	0	2	2	2	0	2	0	2	0	2	2	2	1	24	80.00	Low
Song & Ahn (2014)	2	2	0	1	2	2	3	0	0	0	2	1	2	1	2	1	21	70.00	Moderate
Veiga (2009)	2	0	3	0	0	2	0	0	0	1	2	0	0	0	0	0	10	33.33	High
Verschueren et al. (2019)	2	2	3	2	2	1	3	1	1	1	2	0	0	1	1	1	23	76.67	Low
Wirthwein et al. (2019)	2	2	3	2	2	2	3	1	2	1	2	1	1	2	1	0	27	90.00	Low
Yan & Haihui (2005)	1	0	0	0	2	2	2	0	0	0	2	0	0	0	1	0	10	33.33	High
Yeo & Garces-Bacsal (2014)	1	2	2	2	2	2	3	0	1	1	2	0	2	1	2	0	23	76.67	Low
Yeung et al. (2005)	1	0	2	2	2	2	3	0	2	0	2	0	2	2	1	0	21	70.00	Moderate
Zeidner & Shani-Zinovich (2015)	2	2	3	2	1	2	3	0	2	0	2	1	2	2	2	0	26	86.67	Low
Maximum	**2**	**2**	**3**	**2**	**2**	**2**	**3**	**1**	**2**	**1**	**2**	**1**	**2**	**2**	**2**	**1**	**30**	**100.00**	

Table S3

Mean effect sizes

	All									Excluding Al-Srour & Al-Oweidi (2016)								
Dimension	**N**	**k**	***g***	**95% CI**		***Q***	***I²* (%)**	**ES range**		**N**	**k**	***g***	**95% CI**		***Q***	***I²* (%)**	**ES range**	
				LB	**UB**			**Min**	**Max**				**LB**	**UB**			**Min**	**Max**
GSE/GSC	20	29	0.24**	0.06	0.41	246.85***	88.66	-0.75***	1.42***	19	28	0.19*	0.04	0.35	170.09***	84.13	-0.75***	1.08***
ASC	21	32	0.45***	0.28	0.63	362.41***	91.45	-0.84**	2.14***	20	31	0.42***	0.26	0.59	306.41***	90.21	-0.84**	2.14***
MSC	12	17	0.60***	0.44	0.76	111.31***	85.63	0.17*	1.42***	11	16	0.56***	0.41	0.70	79.81***	91.21	0.17*	1.42***
VSC	8	10	0.20	-0.06	0.47	155.35***	94.21	-0.65**	1.45***	7	9	0.07	-0.13	0.27	68.62***	88.34	-0.65**	0.41
SSC [a]	17	28	-0.05	-0.19	0.10	185.18***	85.42	-0.71**	1.41***	16	27	-0.10*	-0.20	-0.00	69.60***	62.64	-0.71**	0.44
SASC	4	6	-0.11	-0.32	0.10	16.52**	69.73	-0.63**	0.11	4	6	-0.11	-0.32	0.10	16.52**	69.73	-0.63**	0.11
PSC	3	5	-0.09	-0.25	0.07	6.58	39.21	-0.28**	0.32	3	5	-0.09	-0.25	0.07	6.58	39.21	-0.28**	0.32
PeSC	11	18	-0.06	-0.29	0.17	167.23***	89.83	-0.76	1.41***	10	17	-0.14	-0.29	0.01	54.42***	70.60	-0.76	0.53
ParSC	5	9	-0.03	-0.34	0.28	37.44***	78.63	-1.22***	0.75***	5	9	-0.03	-0.34	0.28	37.44***	78.63	-1.22***	0.75***
ESC [a]	6	10	0.19	-0.08	0.46	93.25***	90.35	-0.30**	1.14***	5	9	0.03	-0.12	0.19	21.85**	63.39	-0.30**	0.647*
HSC	3	5	0.12	-0.09	0.32	10.22*	60.88	-1.12	0.36*	3	5	0.12	-0.09	0.32	10.22*	60.88	-1.12	0.36*
LASC	3	5	0.20	-0.06	0.45	15.21**	73.71	-0.20	0.96**	3	5	0.20	-0.06	0.45	15.21**	73.71	-0.20	0.96**
ESSC	3	5	0.19	-0.37	0.76	89.57***	95.53	-0.30**	1.14***	2	4	-0.12	-0.32	0.09	6.53	54.09	-0.30**	0.22
B-TSC [a]	9	14	0.04	-0.21	0.29	115.47***	88.74	-1.16***	1.35***	8	13	-0.02	-0.16	0.12	29.30**	59.04	-1.16***	0.23**
BSC	6	10	0.09	-0.01	0.19	10.91	17.54	-0.68*	0.23**	6	10	0.09	-0.01	0.19	10.91	17.54	-0.68*	0.23**
TSC	3	4	0.00	-1.08	1.09	87.22***	96.56	-1.16***	1.35***	2	3	-0.43	-1.03	0.17	8.52**	78.99	-1.16***	-0.00
PhSC [a]	10	18	-0.11	-0.30	0.09	132.24***	87.14	-0.49*	1.07***	9	17	-0.23***	-0.34	-0.11	37.70**	57.56	-0.49*	0.38
AppSC	9	16	-0.09	-0.31	0.13	118.91***	87.39	-0.50*	1.10**	8	15	-0.22**	-0.36	-0.07	38.76***	63.88	-0.50*	1.10*
AthSC	5	7	0.12	-0.31	0.54	84.40***	92.89	-0.35	1.19***	4	6	-0.07	-0.24	0.09	7.88	36.52	-0.35	0.16

Note. N: number of studies; k: number of samples; *g*: Hedges' *g*; CI: confidence interval; LB: lower bound; UB: upper bound; *Q* and I^2: heterogeneity statistics; ES: effect size. GSE/GSC: global self-concept; ASC: academic self-concept; MSC: math self-concept; VSC: verbal self-concept; SSC: social self-concept; SASC: social acceptance self-concept; PSC: popularity self-concept; PeSC: peer relationships self-concept, ParSC: parents relationships self-concept; ESC; emotional self-concept; HSC: happiness self-concept; LASC: lack of anxiety self-concept; ESSC: emotional stability self-concept, B-TSC: behavioural-trustworthiness self-concept; BSC: behavioural self-concept, TSC: trustworthiness self-concept; PhSC: physical self-concept, AppSC: physical appearance self-concept; AthSC: athletic ability self-concept.

[a] Combined index.

*p < .05. **p < .01. ***p < .001.

Table S4

Complete moderator analyses

Dimension	Moderators	Q_B	k	*g*	95% CI		*Q*	I^2 (%)
					LB	UB		
GSE/GSC	**General**		28	0.19*	0.04	0.35	170.09***	84.13
	Origin	2.16						
	Eastern		15	0.30*	0.07	0.53	105.81***	86.77
	Western		13	0.06	-0.16	0.28	57.39***	79.09
	Geographical area	9.61*						
	Asia		7	-0.05	-0.36	0.26	17.45**	65.61
	USA-Canada		2	0.20	-0.60	1.01	9.35***	89.30
	Europe		11	0.02	-0.20	0.25	33.20***	69.88
	Middle East		8	0.55***	0.25	0.84	75.78***	90.76
	Sex	0.89						
	Females		5	0.05	-0.32	0.42	8.79	54.51
	Males		5	0.36	-0.16	0.88	20.56***	80.54
	Age	1.96						
	Adolescence		17	0.30**	0.08	0.51	109.67***	85.41
	Childhood		8	0.08	-0.14	0.30	17.58*	60.17
	Age 2	16.07**						
	EA		8	0.31	-0.14	0.75	63.48***	88.97
	EA;LA		6	0.33**	0.09	0.57	20.51**	75.63
	LA		3	0.05	-0.40	0.51	10.50**	80.96
	MC		7	0.02	-0.23	0.27	13.98*	57.07
	MC;EA		3	-0.23	-0.97	0.51	17.17***	88.35
	MC;EA;LA		1	0.58***	0.39	0.78	0.00	0.00
	Identification	5.13						
	Multiple		17	0.04	-0.15	0.24	70.20***	77.21
	Only nomination		1	0.10	-0.01	0.20	0.00	0.00
	Only IQ		5	0.57*	0.08	1.06	21.56***	81.44
	Others		5	0.32	-0.05	0.69	33.83***	88.18
	IQ > 130	0.96						
	No		8	0.01	-0.31	0.34	24.91***	71.90
	Yes		7	0.33	-0.21	0.88	54.17***	88.92
	Special attendance	39.89***						
	Early admission to the University		2	-0.17	-0.47	0.12	0.27	0.00
	Extracurricular enrichment		1	0.10	-0.01	0.20	0.00	0.00
	Summer extracurricular programme		1	0.58***	0.39	0.78	0.00	0.00
	No		9	0.30	-0.13	0.72	80.75***	90.09
	Partially		2	0.01	-0.84	0.85	2.95	66.08
	Pull-out		1	0.03	-0.17	0.22	0.00	0.00
	Special centre		4	0.48***	0.29	0.68	4.69	36.06
	Special grouping		8	-0.05	-0.29	0.20	18.47*	62.10
	Special attendance	0.39						
	No		9	0.30	-0.13	0.72	80.75***	90.09
	Yes		17	0.16*	0.01	0.31	70.49***	77.30
	Measure	3.72						
	Coopersmith		5	0.41**	0.14	0.68	12.18*	67.15
	Others		8	0.17	-0.26	0.61	48.59***	85.59
	Piers-Harris		6	0.19	-0.22	0.59	54.54***	90.83
	SDQ		5	0.09	-0.10	0.28	8.41	52.43
	SPPC/SPPA		4	0.03	-0.64	0.70	24.67***	87.84
	Risk of bias	14.40***						
	High		8	0.14	-0.18	0.45	41.01***	82.93
	Low		9	-0.07	-0.23	0.10	19.58*	59.14
	Moderate		11	0.49***	0.25	0.72	43.08***	76.79

Dimension	Moderators	Q_B	k	*g*	95% CI		*Q*	I^2 (%)
					LB	UB		
ASC	**General**		31	0.42***	0.26	0.59	306.41***	90.21
	Origin	0.21						
	Eastern		15	0.38**	0.11	0.65	183.60***	92.37
	Western		16	0.46***	0.25	0.67	120.71***	87.57
	Geographical area	17.62***						
	Asia		10	0.18	-0.11	0.47	43.59***	79.35
	USA-Canada		2	0.91***	0.66	1.15	2.367	57.76
	Europe		14	0.38***	0.19	0.58	62.40***	79.17
	Middle East		5	0.72***	0.25	1.19	102.50***	96.10
	Sex	0.01						
	Females		7	0.42**	0.15	0.68	13.83*	56.63
	Males		6	0.44*	0.09	0.78	21.62***	76.87
	Age	1.20						
	Adolescence		17	0.49***	0.24	0.74	207.87***	92.30
	Childhood		8	0.30*	0.06	0.54	20.15**	65.26
	Age2	35.88***						
	EA		10	0.62*	0.14	1.09	190.15***	95.27
	EA;LA		3	0.33***	0.14	0.52	3.47	42.32
	LA		4	0.32*	0.03	0.61	12.18**	75.36
	MC		8	0.30*	0.06	0.54	20.15**	65.26
	MC;EA		5	0.24	-0.15	0.63	19.42***	79.40
	MC;EA;LA		1	1.02***	0.82	1.22	0.00	0.00
	Identification	9.58*						
	Multiple		24	0.44***	0.30	0.58	101.79***	77.41
	Sólo rendimiento		2	0.42	-0.54	1.38	37.76***	97.35
	Only IQ		2	0.66	-2.26	3.58	73.05***	98.63
	Only nomination		1	0.17**	0.06	0.27	0.00	0.00
	Others		2	0.12	-0.73	0.97	8.13**	87.70
	IQ > 130	0.00						
	No		11	0.32*	0.07	0.57	47.93***	79.14
	Yes		8	0.32***	0.13	0.50	23.24**	69.88
	Special attendance	61.12***						
	Admisión temprana		2	0.12	-0.73	0.97	8.13**	87.70
	Extracurricular enrichment		1	0.17**	0.06	0.27	0.00	0.00
	Summer extracurricular programme		1	1.02***	0.82	1.22	0.00	0.00
	No		9	0.69**	0.25	1.13	84.75***	90.56
	Partially		2	0.56	-0.33	1.44	3.06	67.31
	Pull-out		1	0.45***	0.26	0.65	0.00	0.00
	Special grouping		15	0.27**	0.08	0.45	87.99***	84.09
	Special attendance	2.65						
	No		9	0.69**	0.25	1.13	84.75***	90.56
	Yes		20	0.30***	0.14	0.47	160.37***	88.15
	Measure	1.89						
	Others		10	0.29*	0.00	0.59	61.42***	85.35
	Piers-Harris		6	0.69*	0.12	1.25	103.01***	95.15
	SDQ		11	0.33***	0.16	0.50	48.11***	79.22
	SPPC/SPPA		4	0.53	-0.11	1.17	22.21***	86.49
	Risk of bias	11.95**						
	High		4	0.46	-0.08	1.00	22.43***	86.62
	Low		14	0.17*	0.02	0.32	68.71***	81.08
	Moderate		13	0.73***	0.45	1.02	84.09***	85.73
Dimension	**Moderators**	Q_B	k	*g*	95% CI		*Q*	I^2 (%)
					LB	UB		
MSC	**General**		16	0.56***	0.41	0.70	79.81***	81.21
	Origin / Geographical area	18.70**						
	Eastern / Asia		3	0.18**	0.06	0.31	0.23	0.00
	Western / Europe		13	0.64***	0.47	0.80	61.91***	80.62

Sex	0.54						
Females		4	0.83*	0.20	1.46	22.03***	86.38
Males		4	0.58***	0.39	0.77	2.41	0.00
Age	0.02						
Adolescence		9	0.58***	0.31	0.86	52.45***	84.75
Childhood		4	0.61***	0.32	0.91	26.57***	88.71
Age2	5.90						
EA		4	0.51*	0.12	0.91	29.11***	89.69
EA;LA		2	0.88***	0.47	1.28	0.62	0.00
LA		3	0.51	-0.03	1.06	12.47**	83.96
MC		4	0.61***	0.32	0.91	26.57***	88.71
MC;EA		3	0.40***	0.27	0.53	0.67	0.00
Identification	18.69***						
Multiple		7	0.65***	0.42	0.89	31.64***	81.04
Sólo rendimiento		1	0.17*	0.03	0.31	0.00	0.00
Only IQ		5	0.73***	0.40	1.05	14.19**	71.82
Only nomination		1	0.33***	0.22	0.43	0.00	0.00
Others		2	0.25	-0.05	0.54	0.02	0.00
IQ > 130	8.45**						
No		7	0.52***	0.36	0.69	17.24**	65.19
Yes		3	0.96***	0.72	1.20	0.85	0.00
Special attendance	5.22						
Admisión temprana		2	0.25	-0.05	0.54	0.02	0.00
Extracurricular enrichment		3	0.72*	0.13	1.31	25.85***	92.26
No		5	0.73***	0.40	1.05	14.19**	71.82
Special grouping		6	0.47***	0.27	0.67	26.81***	81.35
Special attendance	1.62						
No		5	0.73***	0.40	1.05	14.19**	71.82
Yes		11	0.49***	0.33	0.65	53.61***	81.35
Measure	5.14*						
Others		7	0.79***	0.48	1.10	27.05***	77.82
SDQ		9	0.40***	0.27	0.54	28.30***	71.73
Risk of bias	0.47						
High		4	0.60*	0.07	1.13	21.21***	85.86
Low		8	0.50***	0.32	0.68	38.18***	81.67
Moderate		4	0.61***	0.33	0.90	9.86*	69.56

Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
VSC	**General**		9	0.07	-0.13	0.27	68.62***	88.34
	Origin / Geographical area	7.46**						
	Eastern / Asia		3	-0.25	-0.54	0.05	5.13	61.03
	Western / Europe		6	0.22	0.06	0.39	20.22**	75.27
	Sex	0.11						
	Females		1	0.41	-0.15	0.97	0.00	0.00
	Males		1	0.29	-0.12	0.70	0.00	0.00
	Age	28.43***						
	Adolescence		4	-0.26*	-0.46	-0.06	5.78	48.07
	Childhood		2	0.33***	0.25	0.41	0.86	0.00
	Age2	49.64***						
	EA		1	-0.18*	-0.31	-0.04	0.00	0.00
	LA		3	-0.32	-0.64	0.01	4.55	56.04
	MC		2	0.33***	0.25	0.41	0.86	0.00
	MC;EA		3	0.27***	0.14	0.40	0.26	0.00
	Identification	54.85***						
	Multiple		4	0.32***	0.23	0.42	1.61	0.00
	Only nomination		1	0.30***	0.20	0.41	0.00	0.00
	Sólo rendimiento		1	-0.18*	-0.31	-0.04	0.00	0.00
	Only IQ		1	-0.32*	-0.61	-0.04	0.00	0.00
	Others		2	-0.32	-0.95	0.32	4.54*	77.98
	IQ > 130	18.22***						

	No		4	0.32***	0.23	0.42	1.61	0.00
	Yes		1	-0.32*	-0.61	-0.04	0.00	0.00
	Special attendance	19.40***						
	Admisión temprana		2	-0.32	-0.95	0.32	4.54*	77.98
	Extracurricular enrichment		1	0.30***	0.20	0.41	0.00	0.00
	No		1	-0.32*	-0.61	-0.04	0.00	0.00
	Special grouping		5	0.21	-0.06	0.48	36.37***	89.00
	Special attendance	6.33*						
	No		1	-0.32*	-0.61	-0.04	0.00	0.00
	Yes		8	0.12	-0.08	0.32	56.39***	87.59
	Measure	6.33*						
	Others		1	-0.32*	-0.61	-0.04	0.00***	0.00
	SDQ		8	0.12	-0.08	0.32	56.39	87.59
	Risk of bias	8.51*						
	High		2	-0.32	-0.95	0.32	4.54*	77.98
	Low		4	0.03	-0.25	0.31	43.03***	93.03
	Moderate		3	0.38***	0.25	0.50	0.18	0.00

Dimension	**Moderators**	Q_B	**k**	g	**95% CI**		Q	I^2 **(%)**
					LB	**UB**		
SSC	**General**		27	-0.10*	-0.20	0.00	69.60***	62.64
	Origin	2.72						
	Eastern		11	-0.19***	-0.28	-0.09	11.46	12.75
	Western		16	-0.05	-0.18	0.08	42.41***	64.63
	Geographical area	3.81						
	Asia		6	-0.11	-0.32	0.10	5.50	9.12
	USA-Canada		2	0.03	-0.15	0.21	9.26**	89.20
	Europe		14	0.02	-0.05	0.09	33.16**	60.79
	Middle East		5	-0.20***	-0.29	-0.11	5.33	24.95
	Sex	2.16						
	Females		6	-0.35***	-0.50	-0.19	1.70	0.00
	Males		6	-0.09	-0.40	0.22	17.61**	71.61
	Age	0.00						
	Adolescence		17	-0.08	-0.19	0.03	37.75**	57.62
	Childhood		6	-0.08	-0.37	0.21	13.14*	61.95
	Age	22.32***						
	EA		10	0.01	-0.14	0.16	17.96*	49.89
	EA;LA		3	-0.12	-0.33	0.09	4.35	54.05
	LA		4	-0.25***	-0.38	-0.12	1.97	0.00
	MC		6	-0.08	-0.37	0.21	13.14*	61.95
	MC;EA		3	-0.56***	-0.85	-0.27	0.36	0.00
	MC;EA;LA		1	0.13	-0.06	0.33	0.00	0.00
	Identification	12.72*						
	Multiple		19	-0.17*	-0.30	-0.04	45.23***	60.20
	Only nomination		1	0.04	-0.06	0.15	0.00	0.00
	Sólo rendimiento		1	0.32*	0.04	0.60	0.00	0.00
	Only IQ		4	0.03	-0.10	0.15	3.24	7.26
	Others		2	-0.09	-0.39	0.21	0.19	0.00
	IQ > 130	0.09						
	No		10	-0.17	-0.39	0.04	22.04**	59.16
	Yes		8	-0.13	-0.28	0.01	18.33*	61.81
	Special attendance	24.56***						
	Admisión temprana		2	-0.09	-0.39	0.21	0.19	0.00
	Extracurricular enrichment		1	0.04	-0.06	0.15	0.00	0.00
	Summer extracurricular programme		1	0.13	-0.06	0.33	0.00	0.00
	No		9	0.06	-0.07	0.19	12.32	35.08
	Partially		2	-0.08	-1.07	0.91	4.01*	75.07
	Pull-out		1	-0.28**	-0.47	-0.08	0.00	0.00
	Special grouping		11	-0.30***	-0.45	-0.14	18.56*	46.12
	Special attendance 2	7.77**						

No		9	0.06	-0.07	0.19	12.32	35.08
Yes		16	-0.20**	-0.32	-0.07	44.39***	66.21
Measure	2.14						
Others		13	-0.19*	-0.37	-0.01	43.60***	72.48
Piers-Harris		5	-0.09	-0.25	0.07	6.58	39.21
SDQ		5	-0.02	-0.17	0.14	5.86	31.75
SPPC/SPPA		4	-0.04	-0.38	0.31	6.60	54.57
Risk of bias	0.08						
High		4	-0.11	-0.52	0.31	12.97**	76.87
Low		13	-0.12*	-0.23	0.00	30.43**	60.57
Moderate		10	-0.08	-0.30	0.13	25.38**	64.53

Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
SASC	**General**		6	-0.11	-0.32	0.10	16.52**	69.73
	Origin							
	Western							
	Geographical area	3.03						
	USA-Canada		1	0.11	-0.08	0.31	0.00	0.00
	Europe		5	-0.03	-0.15	0.09	15.08**	73.48
	Sex	0.02						
	Females		1	-0.58*	-1.14	-0.02	0.00	0.00
	Males		1	-0.63**	-1.05	-0.22	0.00	0.00
	Age	16.48***						
	EA		2	0.08	-0.05	0.21	0.01	0.00
	MC		1	-0.24	-0.71	0.23	0.00	0.00
	MC;EA		2	-0.61***	-0.95	-0.28	0.02	0.00
	MC;EA;LA		1	0.11	-0.08	0.31	0.00	0.00
	Age	1.64						
	Adolescence		2	0.08	-0.05	0.21	0.01	0.00
	Childhood		1	-0.24	-0.71	0.23	0.00	0.00
	Identification	2.87						
	Multiple		4	-0.30	-0.72	0.12	13.89**	78.40
	Only IQ		2	0.08	-0.05	0.21	0.01	0.00
	IQ ≥ 130	2.43						
	No		4	-0.30	-0.71	0.11	14.13**	78.76
	Yes		1	0.07	-0.16	0.30	0.00	0.00
	Special attendance_1	14.84***						
	Summer extracurricular programme		1	0.11	-0.08	0.31	0.00	0.00
	No		3	0.06	-0.07	0.18	1.65	0.00
	Special grouping		2	-0.61***	-0.95	-0.28	0.02	0.00
	Special attendance_2	1.72						
	No		3	0.06	-0.07	0.18	1.65	0.00
	Yes		3	-0.33	-0.90	0.23	13.46**	85.14
	Measure	0.69						
	Others		4	-0.19	-0.51	0.13	14.25**	78.95
	SPPC/SPPA		2	0.00	-0.31	0.32	1.83	45.25
	Risk of bias	1.72						
	Low		3	0.06	-0.07	0.18	1.65	0.00
	Moderate		3	-0.33	-0.90	0.23	13.46**	85.14

Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
PSC	**General**		5	-0.09	-0.25	0.07	6.58	39.21

Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
PeSC	**General**		17	-0.14	-0.29	0.01	54.42***	70.60
	Origin	6.82**						
	Eastern		8	-0.31***	-0.48	-0.13	11.61	39.73
	Western		9	0.01	-0.15	0.18	19.14*	58.21
	Geographical area	6.18						
	Asia		6	-0.33**	-0.54	-0.12	11.10*	54.97
	USA-Canada		2	0.10	-0.09	0.28	2.96	66.19

	Europe		7	0.04	-0.04	0.13	15.92*	62.31
	Middle East		2	-0.28***	-0.43	-0.14	0.41	0.00
	Sex	3.48						
	Females		5	-0.36***	-0.53	-0.20	1.75	0.00
	Males		5	0.02	-0.35	0.39	16.08**	75.13
	Age	0.36						
	Adolescence		11	-0.19*	-0.38	0.00	29.12**	65.66
	Childhood		4	-0.06	-0.44	0.32	8.88*	66.22
	Age2	16.04**						
	EA		7	-0.11	-0.43	0.21	21.36**	71.92
	LA		4	-0.30***	-0.43	-0.17	0.71	0.00
	MC		4	-0.06	-0.44	0.32	8.88*	66.22
	MC;EA		1	-0.42	-1.00	0.15	0.00	0.00
	MC;EA;LA		1	0.16	-0.04	0.35	0.00	0.00
	Identification	16.18**						
	Multiple		12	-0.16	-0.36	0.03	34.76***	68.36
	Sólo rendimiento		1	0.32*	0.04	0.60	0.00	0.00
	Only IQ		1	-0.42	-1.00	0.15	0.00	0.00
	Only nomination		1	0.05	-0.06	0.15	0.00	0.00
	Others		2	-0.36*	-0.66	-0.06	0.10	0.00
	IQ > 130	0.27						
	No		6	-0.19	-0.56	0.18	16.77**	70.18
	Yes		3	-0.29***	-0.43	-0.16	0.61	0.00
	Special attendance	19.02**						
	Admisión temprana		2	-0.36*	-0.66	-0.06	0.10	0.00
	Extracurricular enrichment		1	0.05	-0.06	0.15	0.00	0.00
	Summer extracurricular programme		1	0.16	-0.04	0.35	0.00	0.00
	No		3	0.09	-0.30	0.47	8.68*	76.96
	Partially		2	-0.08	-1.07	0.91	4.01*	75.07
	Special grouping		8	-0.30**	-0.49	-0.12	11.51	39.21
	Special attendance	1.84						
	No		3	0.09	-0.30	0.47	8.68*	76.96
	Yes		11	-0.20*	-0.37	-0.03	38.57**	71.48
	Measure	0.93						
	Others		9	-0.21	-0.45	0.02	26.99***	70.36
	SDQ		5	-0.11	-0.34	0.11	11.31*	64.65
	SPPC/SPPA		3	0.03	-0.44	0.51	5.01	60.04
	Risk of bias	1.63						
	High		4	-0.15	-0.55	0.24	11.99**	74.97
	Low		8	-0.23*	-0.45	-0.01	28.38***	75.33
	Moderate		5	0.01	-0.28	0.29	11.02*	63.69
Dimension	**Moderators**	Q_B	**k**	g	**95% CI**		Q	I^2 (%)
					LB	**UB**		
ParSC	**General**		9	-0.03	-0.34	0.28	37.44***	78.63
	Origin	2.83						
	Eastern		6	0.22	-0.09	0.53	10.12	50.57
	Western		3	-0.50	-1.28	0.28	22.60***	91.15
	Geographical area	21.17***						
	Asia		6	0.22	-0.09	0.53	10.12	50.57
	USA-Canada		1	-1.22***	-1.75	-0.69	0.00	0.00
	Europe		2	-0.09	-0.49	0.31	2.25	55.47
	Sex	0.12						
	Females		2	0.14	-0.39	0.66	0.31	0.00
	Males		2	0.01	-0.51	0.52	1.99	49.82
	Age	4.79						
	EA		2	-0.06	-0.53	0.42	1.35	25.81
	LA		2	0.46	-0.12	1.03	3.64	72.52
	MC		4	-0.22	-0.82	0.38	21.86***	86.27
	MC;EA		1	-0.41	-0.98	0.17	0.00***	0.00
	Age	1.48						

Adolescence		4	0.24	-0.20	0.68	9.61*	68.79
Childhood		4	-0.22	-0.82	0.38	21.86***	86.27
Identification	4.99						
Multiple		5	-0.20	-0.77	0.37	18.72***	78.63
Only nomination		1	0.04	-0.06	0.14	0.00	0.00
Only IQ		1	-0.41	-0.98	0.17	0.00	0.00
Others		2	0.46	-0.12	1.03	3.64	72.52
IQ ≥ 130	1.75						
No		4	0.03	-0.27	0.33	2.54	0.00
Yes		1	-0.41	-0.98	0.17	0.00	0.00
Special attendance	3.39						
Early admission to the University		2	0.46	-0.12	1.03	3.64	72.52
Extracurricular enrichment		1	0.04	-0.06	0.14	0.00	0.00
Special grouping		6	-0.24	-0.71	0.23	18.90**	73.55
Special attendance_2							
Yes		9	-0.03	-0.34	0.28	37.44***	78.63
Measure	2.69						
Others		6	-0.24	-0.71	0.23	18.90**	73.55
SDQ		3	0.28	-0.13	0.70	10.26**	80.50
Risk of bias	0.05						
High		3	-0.09	-1.16	0.97	32.62***	93.87
Low		6	0.03	-0.07	0.12	4.78	0.00

Dimension	**Moderators**	Q_B	**k**	g	**95% CI**		Q	I^2 (%)
					LB	**UB**		
ESC	**General**		9	0.03	-0.12	0.19	21.85**	63.39
	Origin	1.84						
	Eastern		7	-0.01	-0.16	0.15	17.23**	65.18
	Western		2	0.35	-0.14	0.85	1.56	36.06
	Geographical area	2.80						
	Asia		2	0.15	-0.15	0.45	0.22	0.00
	Europe		2	0.33	-0.06	0.73	1.56	36.06
	Middle East		5	-0.04	-0.13	0.05	15.56**	74.28
	Sex	0.62						
	Females		1	-0.19	-0.40	0.02	0.00	0.00
	Males		1	-0.30*	-0.49	-0.11	0.00	0.00
	Age	0.15						
	Adolescence		8	0.03	-0.13	0.19	21.53**	67.49
	Childhood		1	0.13	-0.37	0.64	0.00	0.00
	Age2	3.78						
	EA		1	0.08	-0.20	0.36	0.00	0.00
	EA;LA		3	0.15	-0.03	0.34	3.43	41.76
	LA		4	-0.12	-0.32	0.09	6.53	54.09
	MC		1	0.13	-0.37	0.64	0.00	0.00
	Identification	0.50						
	Multiple		6	0.01	-0.19	0.21	19.88**	74.85
	Others		3	0.11	-0.09	0.32	0.33	0.00
	IQ > 130	1.10						
	Desconocido [a]		5	0.11*	0.00	0.22	1.04	0.00
	Yes		4	-0.05	-0.34	0.23	9.71*	69.10
	Special attendance	5.38						
	Early admission to the University		2	0.15	-0.15	0.45	0.22	0.00
	No		3	0.19	-0.09	0.48	2.62	23.73
	Pull-out		1	0.17	-0.03	0.37	0.00	0.00
	Special grouping		3	-0.14	-0.36	0.08	8.23*	75.69
	Special attendance	1.54						
	No		3	0.19	-0.09	0.48	2.62	23.73
	Yes		6	-0.02	-0.19	0.16	16.64**	69.95
	Measure	17.48***						
	Others		2	-0.25***	-0.39	-0.11	0.62	0.00

	Piers-Harris		5	0.12*	0.01	0.23	3.53	0.00
	SDQ		2	0.15	-0.15	0.45	0.22	0.00
	Risk of bias	2.51						
	High		2	0.15	-0.15	0.45	0.22	0.00
	Low		4	-0.06	-0.27	0.15	14.77**	79.68
	Moderate		3	0.19	-0.09	0.48	2.62	23.73

Dimension	**Moderators**	Q_B	**k**	g	**95% CI**		Q	I^2 (%)
					LB	**UB**		
HSC	**General**		5	0.12	-0.09	0.32	10.22*	60.88
	Origin / Geographical area	0.88						
	Eastern / Oriente medio		3	0.07	-0.18	0.32	8.44*	76.30
	Western / Europe		2	0.29	-0.09	0.68	0.02	0.00
	Age	0.37						
	Adolescence		4	0.10	-0.13	0.33	9.39*	68.06
	Childhood		1	0.27	-0.23	0.77	0.00	0.00
	Identification	4.62*						
	Multiple		4	0.01	-0.15	0.17	4.21	28.75
	Others		1	0.36*	0.08	0.65	0.00	0.00
	IQ ≥ 130	0.88						
	Desconocido		3	0.07	-0.18	0.32	8.44*	76.30
	Yes		2	0.29	-0.09	0.68	0.02	0.00
	Special attendance	10.12**						
	No		3	0.34**	0.11	0.57	0.11	0.00
	Pull-out		1	0.04	-0.16	0.23	0.00	0.00
	Special grouping		1	-0.12	-0.29	0.05	0.00	0.00
	Special attendance	7.67**						
	No		3	0.34**	0.11	0.57	0.11	0.00
	Yes		2	-0.05	-0.20	0.11	1.45	30.88
	Measure							
	Piers-Harris							
	Risk of bias	7.67**						
	Low		2	-0.05	-0.20	0.11	1.45	30.88
	Moderate		3	0.34**	0.11	0.57	0.11	0.00

Dimension	**Moderators**	Q_B	**k**	g	**95% CI**		Q	I^2 (%)
					LB	**UB**		
LASC	**General**		5	0.20	-0.06	0.45	15.21**	73.71
	Origin / Geographical area	0.43						
	Eastern / Oriente medio		3	0.13	-0.13	0.39	9.10*	78.02
	Western / Europe		2	0.46	-0.48	1.40	5.39*	81.46
	Sex							
	Total		5	0.20	-0.06	0.45	15.21**	73.71
	Age	9.02*						
	EA		1	-0.20	-0.48	0.08	0.00	0.00
	EA;LA		3	0.34**	0.12	0.56	4.60	56.52
	MC		1	0.00	-0.50	0.50	0.00	0.00
	Age	0.63						
	Adolescence		4	0.23	-0.05	0.52	14.57**	79.41
	Childhood		1	0.00	-0.50	0.50	0.00	0.00
	Identification	7.88**						
	Multiple		4	0.29**	0.09	0.50	5.83	48.54
	Others		1	-0.20	-0.48	0.08	0.00	0.00
	IQ ≥ 130	0.43						
	Desconocido		3	0.13	-0.13	0.39	9.10*	78.02
	Yes		2	0.46	-0.48	1.40	5.39	81.46
	Special attendance	0.27						
	No		3	0.20	-0.42	0.81	10.64**	81.21
	Pull-out		1	0.30**	0.10	0.50	0.00	0.00
	Special grouping		1	0.24**	0.07	0.41	0.00	0.00

	Measure							
	Piers-Harris		5	0.20	-0.06	0.45	15.21**	73.71
	Risk of bias	0.04						
	Low		2	0.26***	0.14	0.39	0.22	0.00
	Moderate		3	0.20	-0.42	0.81	10.64**	81.21
Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
BSC			10	0.09	-0.01	0.19	10.91	17.54
Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
ESSC			4	-0.12	-0.32	0.09	6.53	54.09
Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
B-TSC	**General**		13	-0.02	-0.16	0.12	29.30**	59.04
	Origin	2.49						
	Eastern		7	0.09	-0.01	0.19	7.86	23.69
	Western		6	-0.26	-0.68	0.16	15.56**	67.86
	Geographical area	5.01						
	Asia		2	-0.13	-0.42	0.17	0.74	0.00
	Europe		6	-0.26	-0.68	0.16	15.56**	67.86
	Middle East		5	0.12*	0.02	0.22	4.62	13.45
	Sex	0.64						
	Females		2	-0.22	-0.98	0.53	4.71*	78.75
	Males		2	0.09	-0.09	0.28	0.65	0.00
	Age	0.04						
	Adolescence		10	0.05	-0.06	0.17	13.60	33.80
	Childhood		2	0.09	-0.25	0.43	0.23	0.00
	Age	22.83***						
	EA		3	-0.23	-0.51	0.06	2.24	10.89
	EA;LA		3	0.18**	0.06	0.31	0.58	0.00
	LA		4	0.06	-0.06	0.19	2.71	0.00
	MC		2	0.09	-0.25	0.43	0.23	0.00
	MC; EA		1	-1.16***	-1.78	-0.54	0.00	0.00
	Identification	20.43***						
	Multiple		9	0.13**	0.04	0.22	8.07	0.86
	Only IQ		1	-1.16***	-1.78	-0.54	0.00	0.00
	Others		3	-0.13	-0.33	0.08	0.74	0.00
	IQ > 130	0.05						
	No		1	0.01	-0.45	0.48	0.00	0.00
	Yes		5	-0.05	-0.36	0.26	15.81**	74.70
	Special attendance	5.71						
	Early admission to the University		2	-0.13	-0.42	0.17	0.74	0.00
	No		4	-0.02	-0.22	0.19	1.46	0.00
	Partially		2	-0.45	-0.95	0.04	0.95	0.00
	Pull-out		1	0.13	-0.07	0.32	0.00	0.00
	Special grouping		4	-0.03	-0.31	0.26	18.25***	83.56
	Special attendance	0.02						
	No		4	-0.02	-0.22	0.19	1.46	0.00
	Yes		7	0.00	-0.18	0.19	21.45**	72.03
	Measure	5.85						
	Others		3.00	-0.19	-0.63	0.26	15.47***	87.0688
	Piers-Harris		5.00	0.13**	0.00	0.25	4.56	12.3342
	SDQ		2.00	-0.13	-0.42	0.17	0.74	0
	SPPC/SPPA		3.00	-0.24	-0.65	0.18	2.76	27.6634
	Risk of bias	1.18						
	High		2	-0.13	-0.42	0.17	0.74	0.00
	Low		6	0.04	-0.16	0.23	18.46**	72.92
	Moderate		5	-0.10	-0.34	0.14	4.80	16.66
Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
TSC	**General**		3	-0.43	-1.03	0.17	9.52**	78.99

Dimension	Moderators	Q_B	k	*g*	95% CI		*Q*	I^2 (%)
					LB	UB		
PhSC	**General**		17	-0.23***	-0.34	-0.11	37.70**	57.56
	Origin	26.16***						
	Eastern		12	-0.34***	-0.42	-0.26	9.51	0.00
	Western		5	-0.01	-0.11	0.08	2.03	0.00
	Geographical area	30.26***						
	Asia		7	-0.20*	-0.36	-0.03	3.86	0.00
	Europe		5	-0.01	-0.11	0.08	2.03	0.00
	Middle East		5	-0.39**	-0.48	-0.30	1.54	0.00
	Sex	0.23						
	Females		4	-0.26**	-0.45	-0.08	1.03	0.00
	Males		5	-0.19	-0.42	0.03	7.53	46.91
	Age	19.38***						
	Adolescence		13	-0.32***	-0.41	-0.23	13.94	13.94
	Childhood		4	-0.02	-0.12	0.08	0.64	0.00
	Age	14.70**						
	EA		5	-0.28*	-0.54	-0.03	5.08	21.20
	EA;LA		3	-0.35**	-0.59	-0.11	5.17	61.29
	LA		5	-0.28***	-0.39	-0.16	1.42	0.00
	MC		4	-0.02	-0.12	0.08	0.64	0.00
	Identification	11.89**						
	Multiple		13	-0.27***	-0.38	-0.15	18.15	33.90
	Only nomination		1	-0.03	-0.13	0.07	0.00	0.00
	Others		3	-0.32**	-0.52	-0.12	0.72	0.00
	IQ > 130	0.19						
	No		5	-0.18	-0.38	0.01	3.78	0.00
	Yes		4	-0.24*	-0.43	-0.06	4.54	33.91
	Special attendance	25.74***						
	Early admission to the University		2	-0.23	-0.52	0.07	0.01	0.00
	Extracurricular enrichment		1	-0.03	-0.13	0.07	0.00	0.00
	No		3	-0.13	-0.52	0.27	4.69	57.34
	Partially		2	0.16	-0.33	0.66	0.56	0.00
	Pull-out		1	-0.41***	-0.61	-0.22	0.00	0.00
	Special centre		1	-0.16	-0.41	0.10	0.00	0.00
	Special grouping		7	-0.36***	-0.46	-0.25	6.17	2.78
	Special attendance	0.40						
	No		3	-0.13	-0.52	0.27	4.69	57.34
	Yes		12	-0.26***	-0.39	-0.13	30.19**	63.57
	Measure	15.12**						
	Others		6	-0.30***	-0.43	-0.18	4.24	0.00
	Piers-Harris		5	-0.34***	-0.51	-0.18	7.10	43.62
	SDQ		4	-0.06	-0.16	0.03	2.15	0.00
	SPPC/SPPA		2	0.16	-0.33	0.66	0.56	0.00
	Risk of bias	1.39						
	High		2	-0.23	-0.52	0.07	0.01	0.00
	Low		9	-0.28***	-0.44	-0.11	29.96***	73.30
	Moderate		6	-0.12	-0.33	0.10	7.27	31.19

Dimension	Moderators	Q_B	k	*g*	95% CI		*Q*	I^2 (%)
					LB	UB		
AppSC	**General**		15	-0.22**	-0.36	-0.07	38.76***	63.88
	Origin	7.31**						
	Eastern		10	-0.37***	-0.47	-0.27	9.13	1.44
	Western		5	0.12	-0.22	0.46	10.36*	61.40
	Área geográfica	10.44**						
	Asia		7	-0.25**	-0.41	-0.09	5.92	0.00
	Europe		5	0.12	-0.22	0.46	10.36*	61.40
	Middle East		3	-0.43***	-0.55	-0.31	0.13	0.00
	Sex	0.67						
	Females		3	-0.19	-0.60	0.22	0.26	0.00

Males		4	0.08	-0.42	0.58	13.22**	77.30
Age	4.22*						
Adolescence		11	-0.28***	-0.45	-0.12	23.04*	56.60
Childhood		4	-0.08	-0.18	0.02	1.04	0.00
Age2	5.94						
EA		5	-0.13	-0.58	0.32	13.94**	71.31
EA;LA		3	-0.35**	-0.59	-0.11	5.17	61.29
LA		3	-0.27**	-0.47	-0.07	2.10	4.96
MC		4	-0.08	-0.18	0.02	1.04	0.00
Identification	7.71*						
Multiple		11	-0.15	-0.35	0.05	27.13**	63.14
Only nomination		1	-0.09	-0.20	0.01	0.00	0.00
Others		3	-0.42***	-0.62	-0.21	0.06	0.00
IQ > 130	1.40						
No		5	-0.17	-0.37	0.02	3.82	0.00
Yes		2	0.09	-0.30	0.47	0.65	0.00
Special attendance	13.42*						
Early admission to the University		2	-0.44**	-0.73	-0.14	0.03	0.00
Extracurricular enrichment		1	-0.09	-0.20	0.01	0.00	0.00
No		3	-0.13	-0.52	0.27	4.69	57.34
Partially		2	0.45	-0.79	1.70	6.01*	83.37
Pull-out		1	-0.41***	-0.61	-0.22	0.00	0.00
Special centre		1	-0.15	-0.40	0.11	0.00	0.00
Special grouping		5	-0.33**	-0.56	-0.09	5.63	28.95
Special attendance	0.54						
No		3	-0.13	-0.52	0.27	4.69	57.34
Yes		10	-0.29***	-0.43	-0.14	22.70**	60.34
Measure	3.19						
Others		4	-0.20	-0.54	0.14	3.71	19.24
Piers-Harris		5	-0.34***	-0.51	-0.18	7.10	43.62
SDQ		4	-0.18*	-0.34	-0.03	4.54	33.94
SPPC/SPPA		2	0.45	-0.79	1.70	6.01*	83.37
Risk of bias	3.88						
High		2	-0.44**	-0.73	-0.14	0.03	0.00
Low		7	-0.28**	-0.47	-0.08	20.44**	70.65
Moderate		6	0.00	-0.32	0.32	15.24**	67.20

Dimension	**Moderators**	Q_B	**k**	***g***	**95% CI**		***Q***	I^2 **(%)**
					LB	**UB**		
AthSC	**General**		6	-0.07	-0.24	0.09	7.88	36.52

Note. k: number of samples; *g*: Hedges' *g*; CI: confidence interval; LB: lower bound; UB: upper bound; *Q* and I^2: heterogeneity statistics; MC: middle childhood; EA: early adolescence; LA: late adolescence. GSE/GSC: global self-concept; ASC: academic self-concept; MSC: math self-concept; VSC: verbal self-concept; SSC: social self-concept; SASC: social acceptance self-concept; PSC: popularity self-concept; PeSC: peer relationships self-concept, ParSC: parents relationships self-concept; ESC; emotional self-concept; HSC: happiness self-concept; LASC: lack of anxiety self-concept; ESSC: emotional stability self-concept, B-TSC: behavioural-trustworthiness self-concept; BSC: behavioural self-concept, TSC: trustworthiness self-concept; PhSC: physical self-concept, AppSC: physical appearance self-concept; AthSC: athletic ability self-concept. *$p < .05$. **$p < .01$. ***$p < .001$.

Table S5

Meta-regressions' results

Dimension	Moderator	*k*	Intercept	b_j	Q_R (df)	Q_E (df)	R^2
GSE/GSC	Mean age	28	-.535	.057	3.82 (1)	152.44 (26)	.00
	% female	24	.310	-.003	1.13 (1)	163.10 (22)***	.00
ASC	Mean age	31	-.065	.039	1.29 (1)	281.02 (29)***	.00
	% female	28	.422**	-.000	0.01 (1)	290.06 (26)***	.00
MSC	Mean age	16	.415	.012	0.17 (1)	76.63 (14)***	.00
	% female	16	.486***	.002	0.48 (1)	79.76 (14)***	.00
SSC	Mean age	27	-.152	.004	0.04 (1)	64.74 (25)***	.00
	% female	27	-.026	-002	2.05 (1)	57.87 (22)***	.00
PeSC	Mean age	17	.131	-.020	0.42 (1)	45.90 (15)***	.00
	% female	16	.009	-.004	3.65 (1)	43.34 (14)***	.00
B-TSC	Mean age	13	-.354	.024	0.76 (1)	27.76 (11)**	.00
	% female	11	.033	-.002	0.43 (1)	28.48 (9)***	.00
BSC	Mean age	10	-.072	.011	0.23 (1)	10.64 (8)	.00
PhSC	Mean age	17	.247	-.035*	5.11 (1)*	20.31 (15)	.67
	% female	15	-.231*	-.000	0.06 (1)	34.60 (13)**	.00
AppSC	Mean age	15	.254	-.036	1.96 (1)	27.51(13)*	.15
	% female	13	-.140	-.003	0.92 (1)	35.17 (11)***	.00

Note. *k*: number of samples; b_j = regression coefficient; Q_R: significance of moderator variable; Q_E: lack of model specification; R^2: explained proportion of variance; *df*: degrees of freedom. GSE/GSC: global self-concept; ASC: academic self-concept; MSC: math self-concept; SSC: social self-concept; PeSC: peer relationships self-concept; ESC; emotional self-concept; B-TSC: behavioural-trustworthiness self-concept; BSC: behavioural self-concept, PhSC: physical self-concept; AppSC: physical appearance self-concept. *p < .05; **p < .01; ***p < .001.

Table S6

Publication bias analyses[a]

Dimension	Corrected by trim-and-fill?	Imputed ESs	Side	Mean ES	CI 95%		*Egger's test* p-value [b]
					LB	UB	
GSE/GSC	No	-	-	0.19	0.04	0.35	.85
	Yes	5	R	0.32	0.16	0.48	
ASC	No	-	-	-	-	-	.26
MSC	No	-	-	-	-	-	.03
VSC	No	-	-	-	-	-	.33
SSC	No	-	-	-0.10	-0.20	-0.00	.20
	Yes	3	R	-0.05	-0.15	0.05	
SASC	No	-	-	-0.11	-0.32	0.10	.02
	Yes	2	R	0.05	-0.20	0.29	
PSC	No	-	-	-0.09	-0.25	0.07	.16
	Yes	2	L	-0.15	-0.32	0.02	
PeSC	No	-	-	-0.14	-0.28	0.01	.59
	Yes	2	R	-0.09	-0.24	0.05	
ParSC	No	-	-	-0.03	-0.34	0.28	.75
	Yes	2	L	-0.20	-0.53	0.13	
ESC	No	-	-	0.03	-0.12	0.19	.20
	Yes	2	L	-0.01	-0.16	0.14	
HSC	No	-	-	0.11	-0.09	0.32	.17
	Yes	2	L	0.00	-0.21	0.21	
LASC	No	-	-	-	-	-	.92
ESSC	No	-	-	-0.11	-0.32	0.09	.03
	Yes	2	L	-0.25	-0.47	-0.02	
B-TSC	No	-	-	-	-	-	.01
BSC	No	-	-	0.09	-0.01	0.19	.06
	Yes	2	R	0.11	0.01	0.23	
TSC	No	-	-	-	-	-	.13
PhSC	No	-	-	-0.23	-0.34	-0.11	.94
	Yes	4	L	-0.28	-0.40	-0.16	
AppSC	No	-	-	-	-	-	.72
AthSC	No	-	-	-0.07	-0.24	0.09	.42
	Yes	1	R	-0.06	-0.21	0.09	

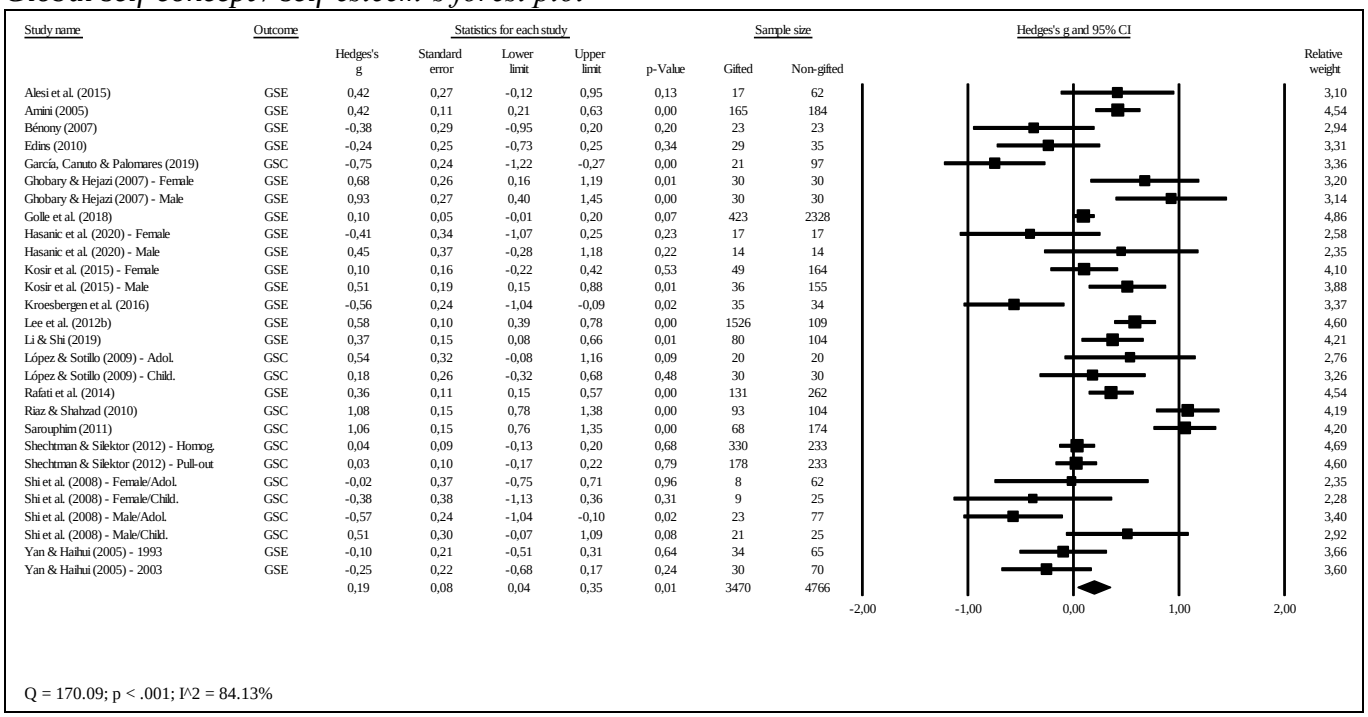
Note. N: number of studies; k: number of samples; *g*: Hedges' *g*; CI: confidence interval; LB: lower bound; UB: upper bound; *Q* and I^2: heterogeneity statistics; ES: effect size. GSE/GSC: global self-concept; ASC: academic self-concept; MSC: math self-concept; VSC: verbal self-concept; SSC: social self-concept; SASC: social acceptance self-concept; PSC: popularity self-concept; PeSC: peer relationships self-concept, ParSC: parents relationships self-concept; ESC; emocional self-concept; HSC: happiness self-concept; LASC: lack of anxiety self-concept; ESSC: emotional stability self-concept, B-TSC: behavioural-trustworthiness self-concept; BSC: behavioural self-concept, TSC: trustworthiness self-concept; PhSC: physical self-concept, AppSC: physical appearance self-concept; AthSC: athletic ability self-concept.

[a] Excluding Al-Srour & Al-Oweidi (2016). [b] Significant results at the level $p = .10$.

Figures from analyses after excluding Al-Srour & Al-Oweidi (2016)

Figure S1.A

Global self-concept / self-esteem's forest plot



Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Alesi et al. (2015)	GSE	0,42	0,27	-0,12	0,95	0,13	17	62	3,10
Amini (2005)	GSE	0,42	0,11	0,21	0,63	0,00	165	184	4,54
Bénony (2007)	GSE	-0,38	0,29	-0,95	0,20	0,20	23	23	2,94
Edins (2010)	GSE	-0,24	0,25	-0,73	0,25	0,34	29	35	3,31
García, Caruto & Palomares (2019)	GSC	-0,75	0,24	-1,22	-0,27	0,00	21	97	3,36
Ghobary & Hejazi (2007) - Female	GSE	0,68	0,26	0,16	1,19	0,01	30	30	3,20
Ghobary & Hejazi (2007) - Male	GSE	0,93	0,27	0,40	1,45	0,00	30	30	3,14
Golle et al. (2018)	GSE	0,10	0,05	-0,01	0,20	0,07	423	2328	4,86
Hasanic et al. (2020) - Female	GSE	-0,41	0,34	-1,07	0,25	0,23	17	17	2,58
Hasanic et al. (2020) - Male	GSE	0,45	0,37	-0,28	1,18	0,22	14	14	2,35
Kosir et al. (2015) - Female	GSE	0,10	0,16	-0,22	0,42	0,53	49	164	4,10
Kosir et al. (2015) - Male	GSE	0,51	0,19	0,15	0,88	0,01	36	155	3,88
Kroesbergen et al. (2016)	GSE	-0,56	0,24	-1,04	-0,09	0,02	35	34	3,37
Lee et al. (2012b)	GSE	0,58	0,10	0,39	0,78	0,00	1526	109	4,60
Li & Shi (2019)	GSE	0,37	0,15	0,08	0,66	0,01	80	104	4,21
López & Sotillo (2009) - Adol.	GSC	0,54	0,32	-0,08	1,16	0,09	20	20	2,76
López & Sotillo (2009) - Child.	GSC	0,18	0,26	-0,32	0,68	0,48	30	30	3,26
Rafati et al. (2014)	GSE	0,36	0,11	0,15	0,57	0,00	131	262	4,54
Riaz & Shahzad (2010)	GSC	1,08	0,15	0,78	1,38	0,00	93	104	4,19
Sarouphim (2011)	GSC	1,06	0,15	0,76	1,35	0,00	68	174	4,20
Shechtman & Silektor (2012) - Homog.	GSC	0,04	0,09	-0,13	0,20	0,68	330	233	4,69
Shechtman & Silektor (2012) - Pull-out	GSC	0,03	0,10	-0,17	0,22	0,79	178	233	4,60
Shi et al. (2008) - Female/Adol.	GSC	-0,02	0,37	-0,75	0,71	0,96	8	62	2,35
Shi et al. (2008) - Female/Child.	GSC	-0,38	0,38	-1,13	0,36	0,31	9	25	2,28
Shi et al. (2008) - Male/Adol.	GSC	-0,57	0,24	-1,04	-0,10	0,02	23	77	3,40
Shi et al. (2008) - Male/Child.	GSC	0,51	0,30	-0,07	1,09	0,08	21	25	2,92
Yan & Haihui (2005) - 1993	GSE	-0,10	0,21	-0,51	0,31	0,64	34	65	3,66
Yan & Haihui (2005) - 2003	GSE	-0,25	0,22	-0,68	0,17	0,24	30	70	3,60
		0,19	0,08	0,04	0,35	0,01	3470	4766	

Q = 170.09; p < .001; I^2 = 84.13%

Figure S1.B

Global self-concept / self-esteem's funnel plot

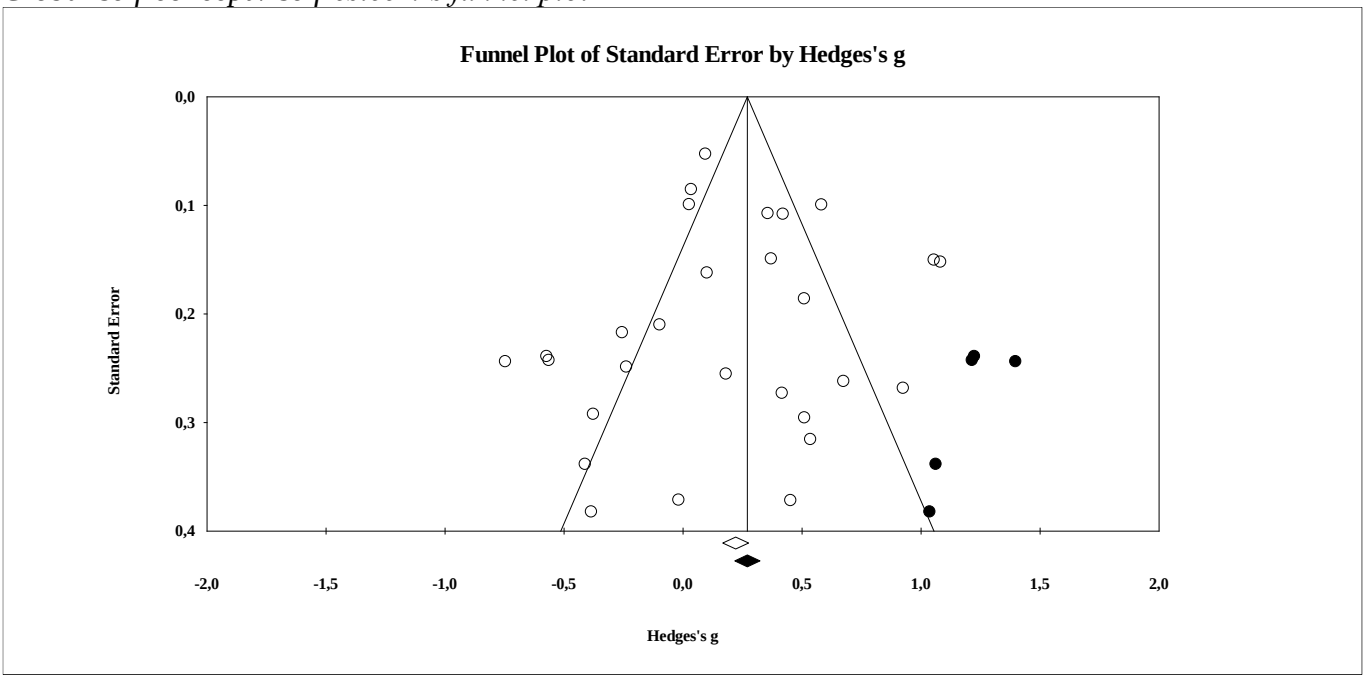
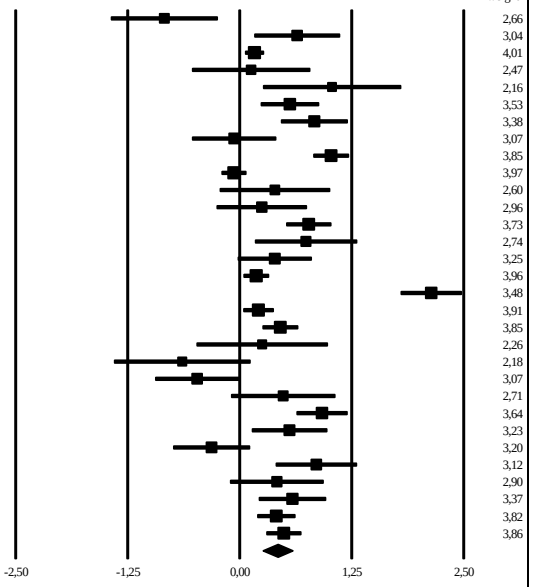


Figure S2.A

Academic self-concept's forest plot

Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Bénony et al. (2007)	ASC	-0,84	0,30	-1,43	-0,25	0,01	23	23	2,66
García, Canuto & Palomares (2019)	ASC	0,64	0,24	0,17	1,12	0,01	21	97	3,04
Golle et al. (2018)	ASC	0,17	0,05	0,06	0,27	0,00	423	2328	4,01
Hasanic et al. (2020) - Female	ASC	0,13	0,34	-0,53	0,79	0,70	17	17	2,47
Hasanic et al. (2020) - Male	ASC	1,03	0,39	0,26	1,80	0,01	14	14	2,16
Kosir et al. (2015) - Female	ASC	0,56	0,16	0,24	0,88	0,00	49	164	3,53
Kosir et al. (2015) - Male	ASC	0,83	0,19	0,46	1,20	0,00	36	155	3,38
Kroesbergen et al. (2016)	ASC	-0,06	0,24	-0,53	0,40	0,80	35	34	3,07
Lee et al. (2012b)	ASC	1,02	0,10	0,82	1,22	0,00	1526	109	3,85
Liem et al. (2015)	ASC	-0,06	0,07	-0,20	0,07	0,35	569	324	3,97
López & Sotillo (2009) - Adol.	ASC	0,39	0,31	-0,22	1,01	0,21	20	20	2,60
López & Sotillo (2009)a - Child.	ASC	0,25	0,26	-0,25	0,75	0,34	30	30	2,96
Mofield & Parker (2018)	ASC	0,77	0,13	0,52	1,02	0,00	264	86	3,73
Preckel & Brüll (2008b) - Female	ASC	0,74	0,29	0,17	1,31	0,01	15	65	2,74
Preckel & Brüll (2008b) - Male	ASC	0,39	0,21	-0,02	0,80	0,06	31	86	3,25
Preckel et al. (2017; 2019)	ASC	0,19	0,07	0,04	0,33	0,01	283	639	3,96
Sarouphim (2011)	ASC	2,14	0,17	1,80	2,48	0,00	68	174	3,48
Shechtman & Silektor (2012) - Homog.	ASC	0,21	0,09	0,04	0,38	0,01	330	233	3,91
Shechtman & Silektor (2012) - Pull-out	ASC	0,45	0,10	0,26	0,65	0,00	178	233	3,85
Shi et al. (2008) - Female/Adol.	ASC	0,25	0,37	-0,48	0,98	0,50	8	62	2,26
Shi et al. (2008) - Female/Child.	ASC	-0,64	0,39	-1,40	0,12	0,10	9	25	2,18
Shi et al. (2008) - Male/Adol.	ASC	-0,47	0,24	-0,94	-0,01	0,05	23	77	3,07
Shi et al. (2008) - Male/Child.	ASC	0,49	0,30	-0,09	1,06	0,10	21	25	2,71
Veiga (2009)	ASC	0,92	0,14	0,64	1,20	0,00	52	878	3,64
Yan & Haihui (2005) - 1993	ASC	0,56	0,21	0,14	0,98	0,01	34	65	3,23
Yan & Haihui (2005) - 2003	ASC	-0,31	0,22	-0,74	0,11	0,15	30	70	3,20
Yeo & Garces-Bacsal (2014)	ASC	0,86	0,23	0,40	1,31	0,00	30	61	3,12
Yeung et al. (2005) - Heterog.	Combined	0,42	0,27	-0,10	0,93	0,12	28	29	2,90
Yeung et al. (2005) - Homog.	Combined	0,59	0,19	0,22	0,96	0,00	29	681	3,37
Zeidner & Shani-Zinovich (2015) - Female	ASC	0,41	0,11	0,20	0,62	0,00	141	234	3,82
Zeidner & Shani-Zinovich (2015) - Male	ASC	0,49	0,10	0,30	0,68	0,00	239	194	3,86
		0,42	0,08	0,26	0,59	0,00	4576	7232	



Q = 306.41; p < .001; I^2 = 90.21%

Figure S2.B

Academic self-concept's funnel plot

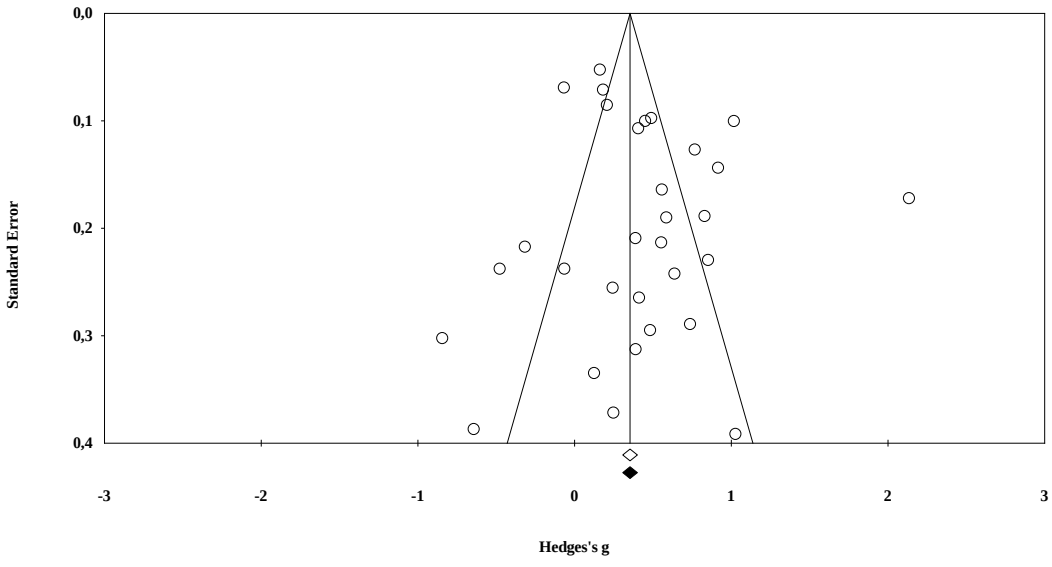
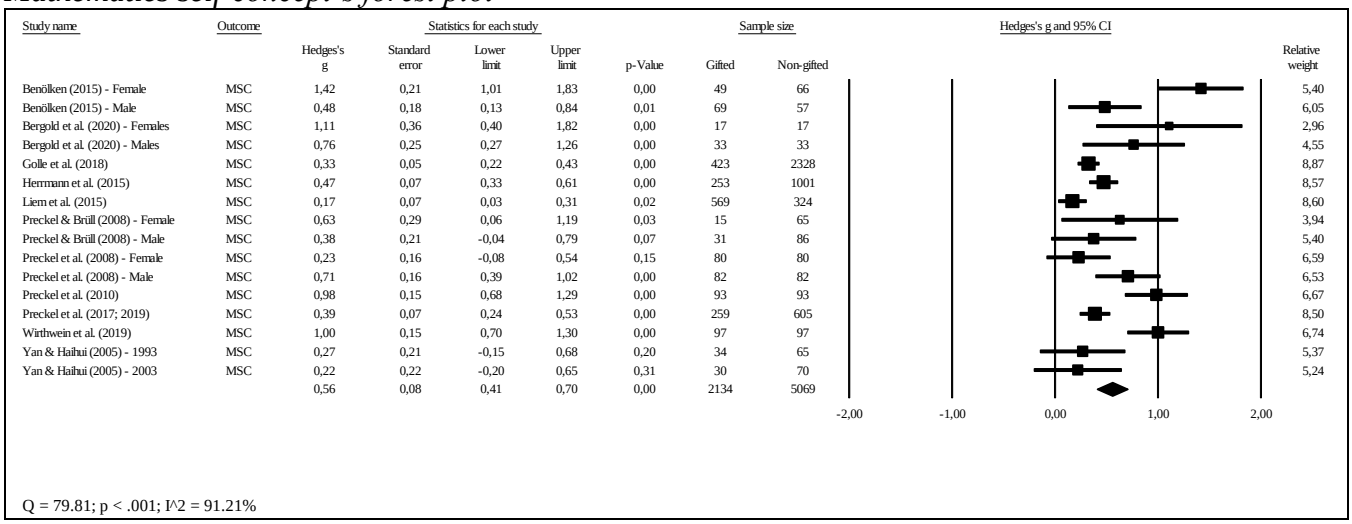


Figure S3.A

Mathematics self-concept's forest plot



Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Benölken (2015) - Female	MSC	1,42	0,21	1,01	1,83	0,00	49	66	5,40
Benölken (2015) - Male	MSC	0,48	0,18	0,13	0,84	0,01	69	57	6,05
Bergold et al. (2020) - Females	MSC	1,11	0,36	0,40	1,82	0,00	17	17	2,96
Bergold et al. (2020) - Males	MSC	0,76	0,25	0,27	1,26	0,00	33	33	4,55
Golle et al. (2018)	MSC	0,33	0,05	0,22	0,43	0,00	423	2328	8,87
Herrmann et al. (2015)	MSC	0,47	0,07	0,33	0,61	0,00	253	1001	8,57
Liem et al. (2015)	MSC	0,17	0,07	0,03	0,31	0,02	569	324	8,60
Preckel & Brüll (2008) - Female	MSC	0,63	0,29	0,06	1,19	0,03	15	65	3,94
Preckel & Brüll (2008) - Male	MSC	0,38	0,21	-0,04	0,79	0,07	31	86	5,40
Preckel et al. (2008) - Female	MSC	0,23	0,16	-0,08	0,54	0,15	80	80	6,59
Preckel et al. (2008) - Male	MSC	0,71	0,16	0,39	1,02	0,00	82	82	6,53
Preckel et al. (2010)	MSC	0,98	0,15	0,68	1,29	0,00	93	93	6,67
Preckel et al. (2017; 2019)	MSC	0,39	0,07	0,24	0,53	0,00	259	605	8,50
Wirthwein et al. (2019)	MSC	1,00	0,15	0,70	1,30	0,00	97	97	6,74
Yan & Haihui (2005) - 1993	MSC	0,27	0,21	-0,15	0,68	0,20	34	65	5,37
Yan & Haihui (2005) - 2003	MSC	0,22	0,22	-0,20	0,65	0,31	30	70	5,24
		0,56	0,08	0,41	0,70	0,00	2134	5069	

Figure S3.B

Mathematics self-concept's funnel plot

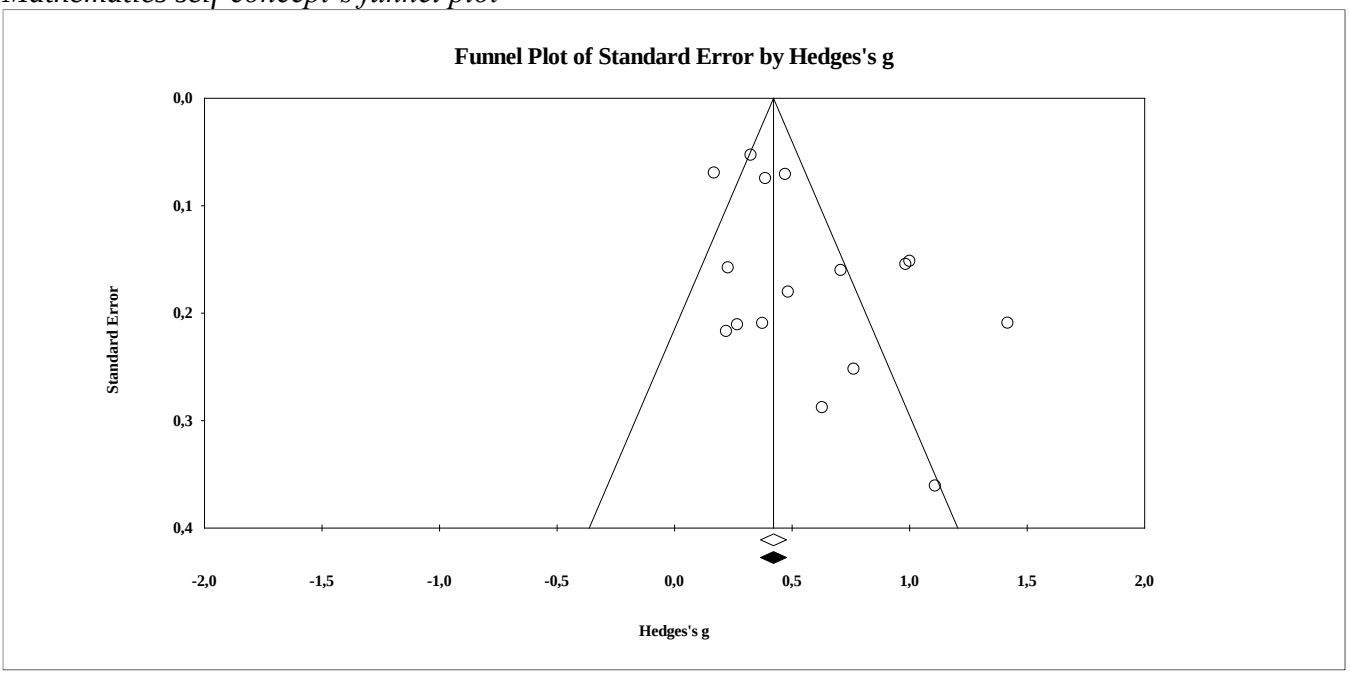
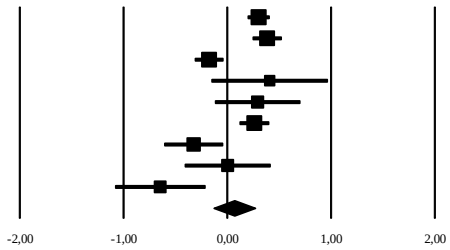


Figure S4.A

Verbal self-concept's forest plot

Study name	Outcome	Statistics for each study					Sample size		Hedges's g and 95% CI	Relative weight
		Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted		
Golle et al. (2018)	Combined	0,30	0,05	0,20	0,41	0,00	423	2328		14,07
Herrmann et al. (2015)	VSC	0,38	0,07	0,25	0,52	0,00	254	998		13,67
Liem et al. (2015)	VSC	-0,18	0,07	-0,31	-0,04	0,01	569	324		13,70
Preckel & Brüll (2008) - Female	VSC	0,41	0,29	-0,15	0,97	0,15	15	65		6,82
Preckel & Brüll (2008) - Male	VSC	0,29	0,21	-0,12	0,70	0,16	31	86		9,07
Preckel et al. (2019)	VSC	0,26	0,07	0,12	0,40	0,00	283	639		13,65
Wirthwein et al. (2019)	VSC	-0,32	0,14	-0,61	-0,04	0,02	97	97		11,33
Yan & Haihui (2005) - 1993	VSC	0,00	0,21	-0,41	0,42	0,99	34	65		9,03
Yan & Haihui (2005) - 2003	VSC	-0,65	0,22	-1,08	-0,21	0,00	30	70		8,67
		0,07	0,10	-0,13	0,27	0,50	1736	4672		



Q = 68.62; p < .001; I^2 = 88.34%

Figure S4.B

Verbal self-concept's funnel plot

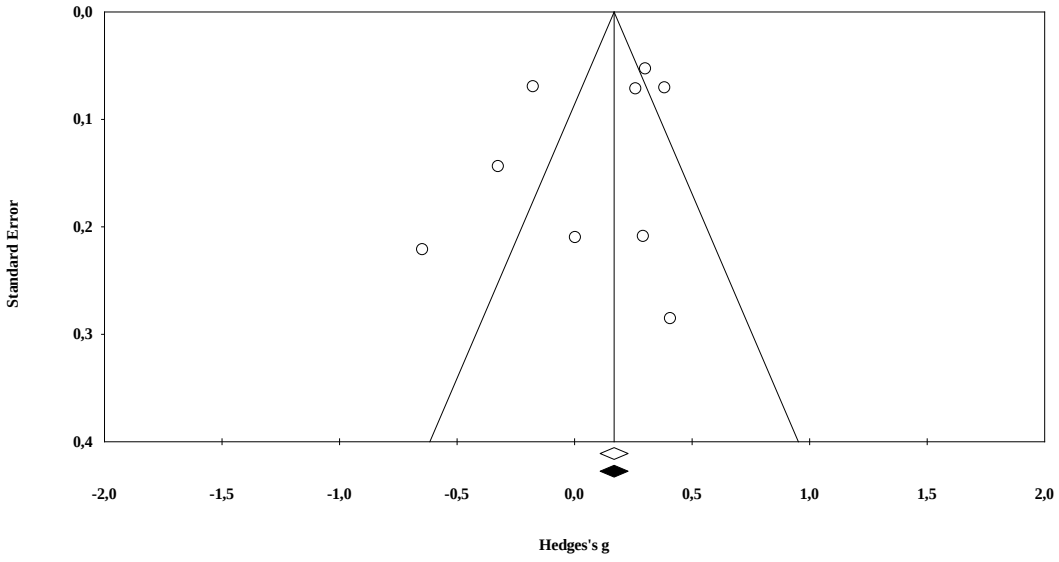
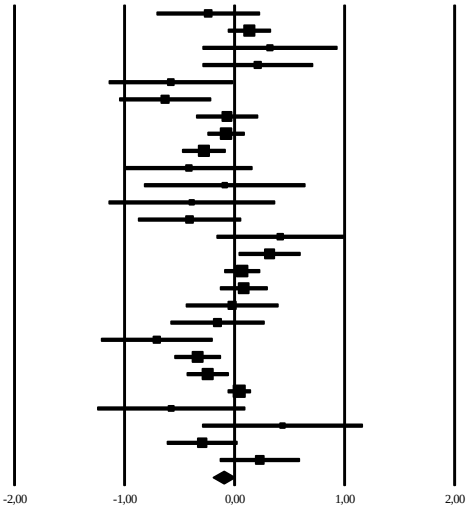


Figure S5.A

Social self-concept's forest plot

Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Kroesbergen et al. (2016)	SAcSC	-0,24	0,24	-0,71	0,23	0,32	35	34	2,77
Lee et al. (2012b)	Combined	0,13	0,10	-0,06	0,33	0,17	1526	109	5,86
López & Sotillo (2009) - Adol.	SAcSC	0,32	0,31	-0,29	0,93	0,30	20	20	1,91
López & Sotillo (2009) - Child.	SAcSC	0,21	0,26	-0,29	0,71	0,41	30	30	2,54
Preckel & Brüll (2008) - Female	SAcSC	-0,58	0,29	-1,14	-0,02	0,04	15	65	2,16
Preckel & Brüll (2008) - Male	SAcSC	-0,63	0,21	-1,05	-0,22	0,00	31	86	3,20
Sarouphim (2011)	SAcSC	-0,07	0,14	-0,35	0,21	0,63	68	174	4,70
Shechtman & Silektor (2012) - Homog.	SAcSC	-0,08	0,09	-0,25	0,09	0,36	330	233	6,23
Shechtman & Silektor (2012) - Pull-out	SAcSC	-0,28	0,10	-0,47	-0,08	0,01	178	233	5,84
Bénony et al. (2007)	Combined	-0,41	0,29	-0,99	0,16	0,16	23	23	2,10
Shi et al. (2008) - Female/Adol.	Combined	-0,09	0,37	-0,82	0,64	0,81	8	62	1,45
Shi et al. (2008) - Female/Child.	Combined	-0,39	0,39	-1,14	0,37	0,31	9	25	1,37
Shi et al. (2008) - Male/Adol.	Combined	-0,41	0,24	-0,87	0,06	0,09	23	77	2,78
Shi et al. (2008) - Male/Child.	Combined	0,42	0,29	-0,16	0,99	0,16	21	25	2,08
Veiga (2009)	PeSC	0,32	0,14	0,04	0,60	0,03	52	878	4,69
Verschueren et al. (2019) - High gifted	SAcSC	0,07	0,08	-0,09	0,23	0,40	191	649	6,32
Verschueren et al. (2019) - Moderat. gifted	SAcSC	0,08	0,11	-0,13	0,30	0,45	95	649	5,57
Yan & Hailhui (2005) - 1993	Combined	-0,02	0,21	-0,44	0,40	0,92	34	65	3,17
Yan & Hailhui (2005) - 2003	Combined	-0,15	0,22	-0,58	0,27	0,48	30	70	3,11
Edins (2010)	Combined	-0,71	0,26	-1,21	-0,20	0,01	29	35	2,50
Zeidner & Shani-Zinovich (2015) - Female	SSC	-0,34	0,11	-0,55	-0,13	0,00	141	234	5,64
Zeidner & Shani-Zinovich (2015) - Male	SSC	-0,24	0,10	-0,43	-0,05	0,01	239	194	5,93
Golle et al. (2018)	Combined	0,04	0,05	-0,06	0,15	0,42	423	2328	7,03
Hasanic et al. (2020) - Female	SSC	-0,58	0,34	-1,25	0,09	0,09	17	17	1,66
Hasanic et al. (2020) - Male	SSC	0,44	0,37	-0,29	1,16	0,24	14	14	1,45
Kosir et al. (2015) - Female	SSPeSC	-0,29	0,16	-0,61	0,03	0,07	49	164	4,20
Kosir et al. (2015) - Male	SSPeSC	0,23	0,18	-0,13	0,59	0,21	36	155	3,73
		-0,10	0,05	-0,20	-0,00	0,05	3667	6648	



Q = 69.60; p < .001; I^2 = 62.64%

Figure S5.B

Social self-concept's funnel plot

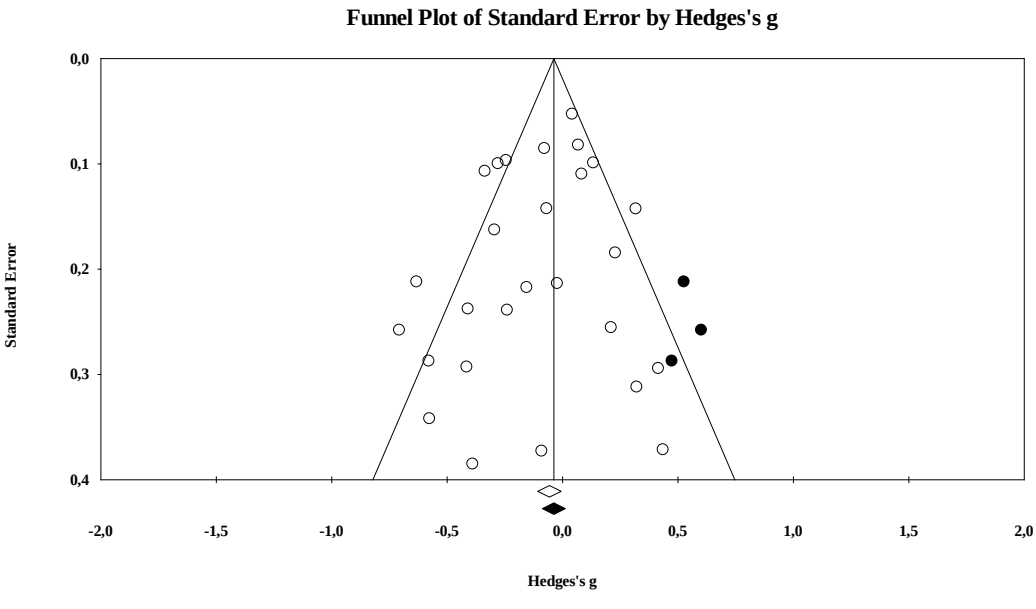


Figure S6.A

Social acceptance self-concept's forest plot

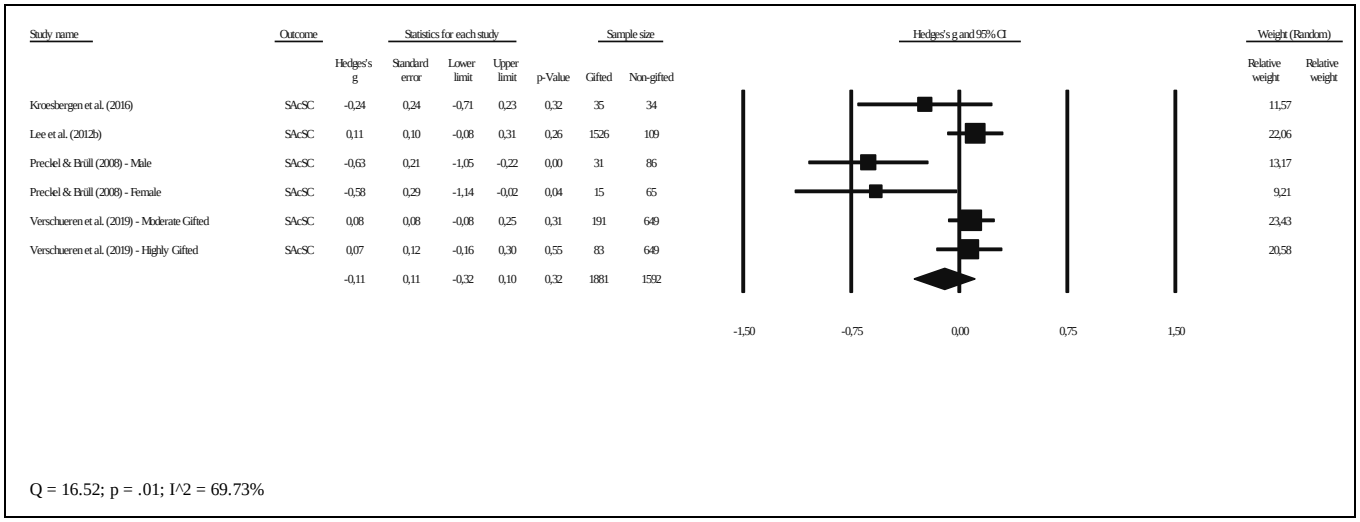


Figure S6.B

Social acceptance self-concept's funnel plot

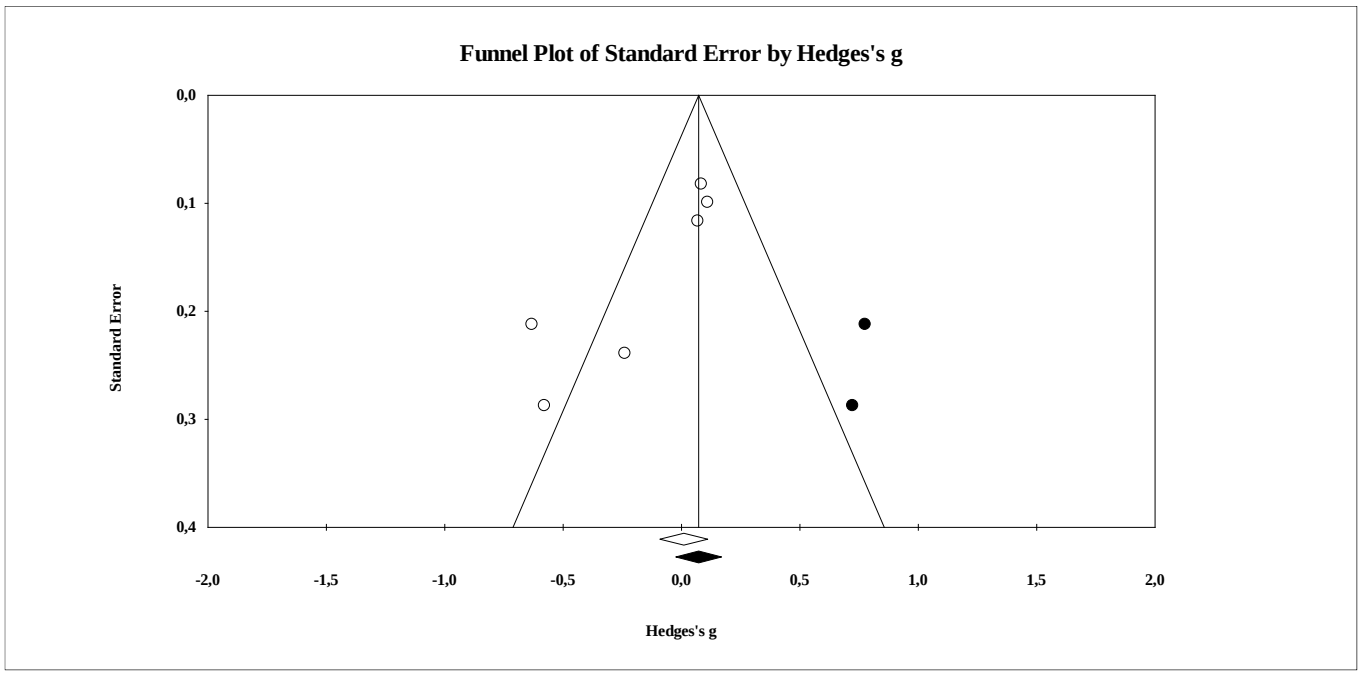


Figure S7.A

Popularity self-concept's forest plot

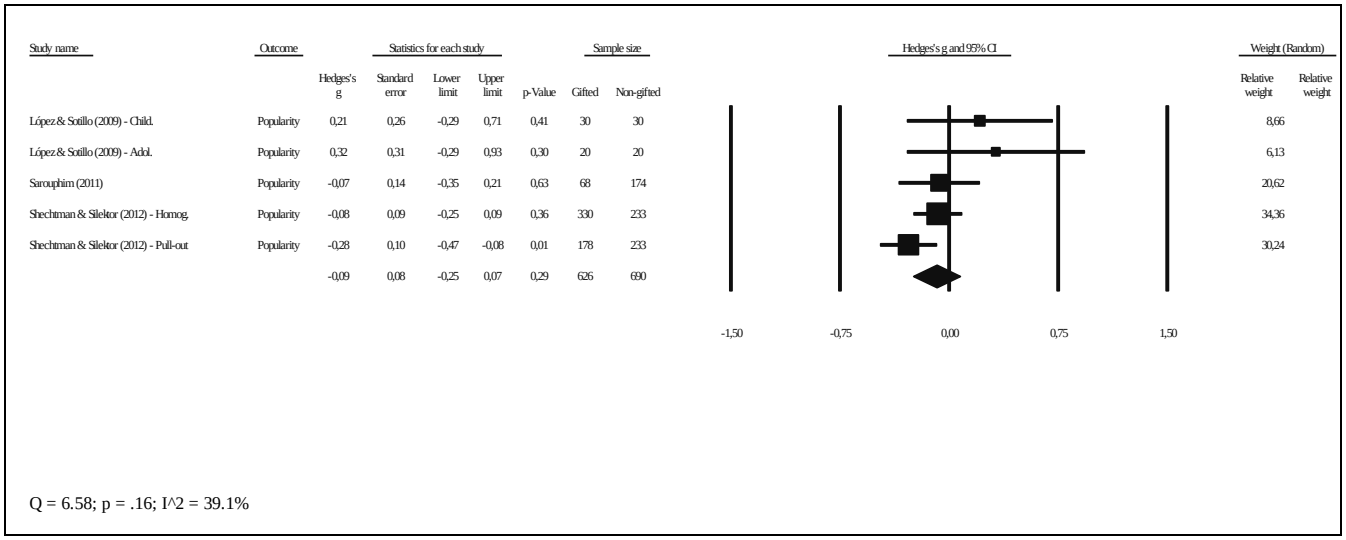


Figure S7.B

Popularity self-concept's funnel plot

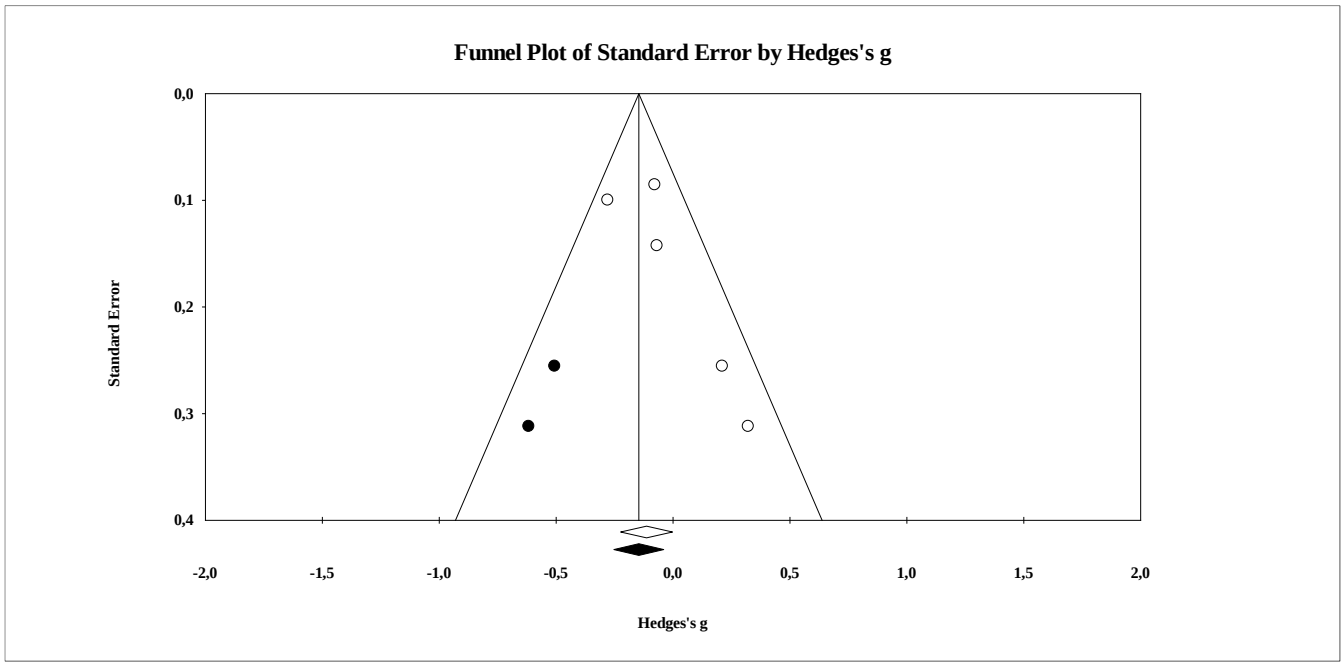
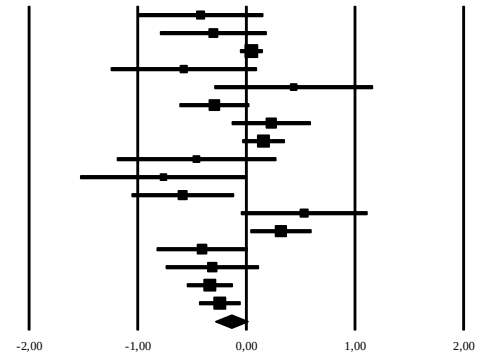


Figure S8.A

Peer relationships self-concept's forest plot

Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Bénony et al. (2007)	SSC	-0,42	0,29	-1,00	0,15	0,15	23	23	4,09
Edins (2010)	PeSC	-0,30	0,25	-0,79	0,19	0,22	29	35	4,93
Golle et al. (2018)	PeSC	0,05	0,05	-0,06	0,15	0,38	423	2328	10,12
Hasanic et al. (2020) - Female	SSC	-0,58	0,34	-1,25	0,09	0,09	17	17	3,35
Hasanic et al. (2020) - Male	SSC	0,44	0,37	-0,29	1,16	0,24	14	14	2,98
Kosir et al. (2015) - Female	SSPeSC	-0,29	0,16	-0,61	0,03	0,07	49	164	7,12
Kosir et al. (2015) - Male	SSPeSC	0,23	0,18	-0,13	0,59	0,21	36	155	6,51
Lee et al. (2012b)	CRSC	0,16	0,10	-0,04	0,35	0,11	1526	109	9,00
Shi et al. (2008) - Female/Adol.	PeSC	-0,46	0,37	-1,19	0,27	0,22	8	62	2,96
Shi et al. (2008) - Female/Child.	PeSC	-0,76	0,39	-1,53	0,00	0,05	9	25	2,77
Shi et al. (2008) - Male/Adol.	PeSC	-0,59	0,24	-1,05	-0,12	0,01	23	77	5,15
Shi et al. (2008) - Male/Child.	PeSC	0,53	0,30	-0,05	1,11	0,07	21	25	4,04
Veiga (2009)	PeSC	0,32	0,14	0,04	0,60	0,03	52	878	7,71
Yan & Haihui (2005) - 1993	Combined	-0,41	0,21	-0,82	0,01	0,05	34	65	5,79
Yan & Haihui (2005) - 2003	Combined	-0,31	0,22	-0,74	0,11	0,15	30	70	5,65
Zeidner & Shani-Zinovich (2015) - Female	SSC	-0,34	0,11	-0,55	-0,13	0,00	141	234	8,77
Zeidner & Shani-Zinovich (2015) - Male	SSC	-0,24	0,10	-0,43	-0,05	0,01	239	194	9,06
		-0,14	0,08	-0,29	0,01	0,07	2674	4475	



Q = 54.42; p < .001; I^2 = 70.60%

Figure S8.B

Peer relationships self-concept's funnel plot

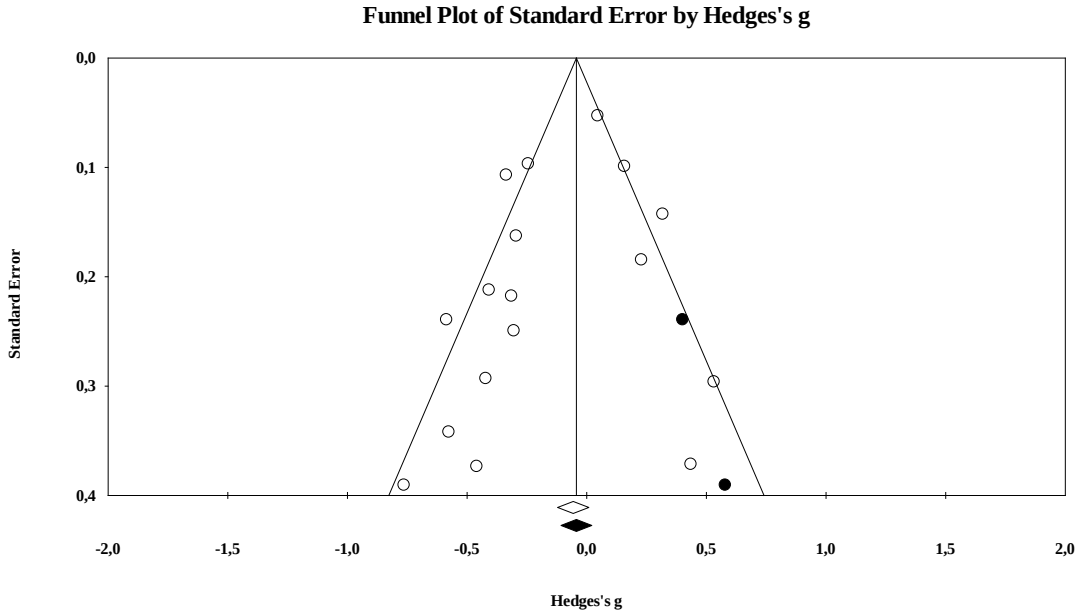


Figure S9.A

Parent relationships self-concept's forest plot

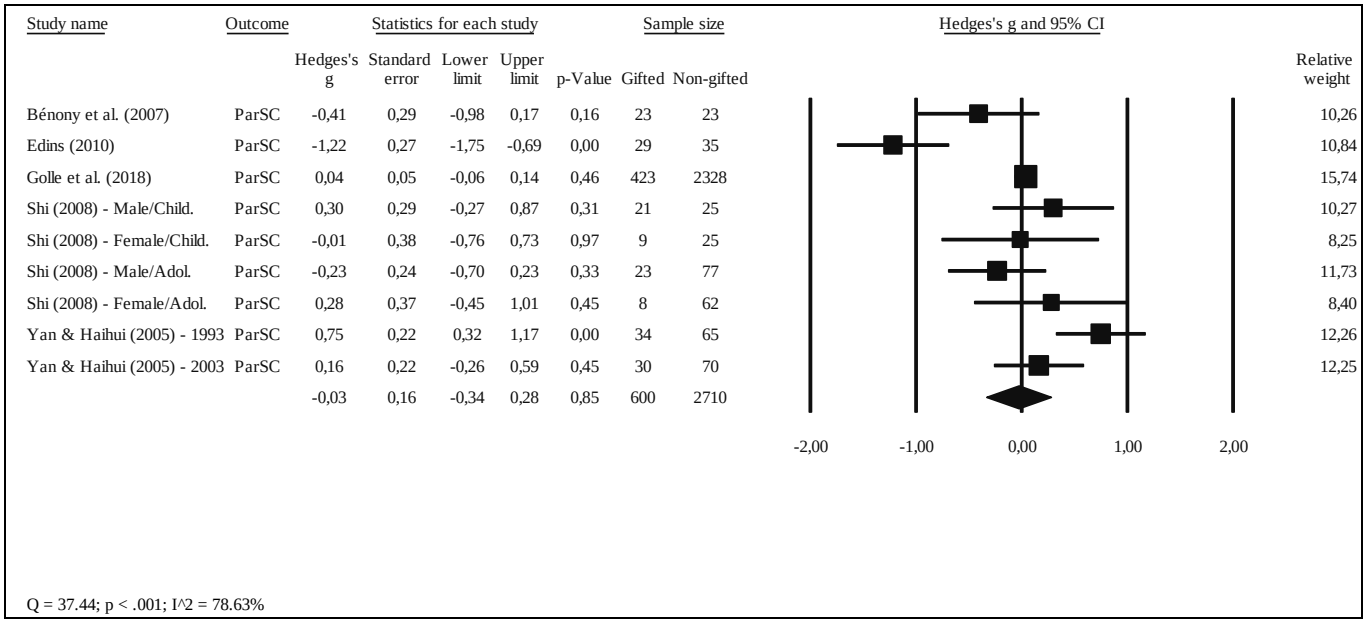


Figure S9.B

Parent relationships self-concept's funnel plot

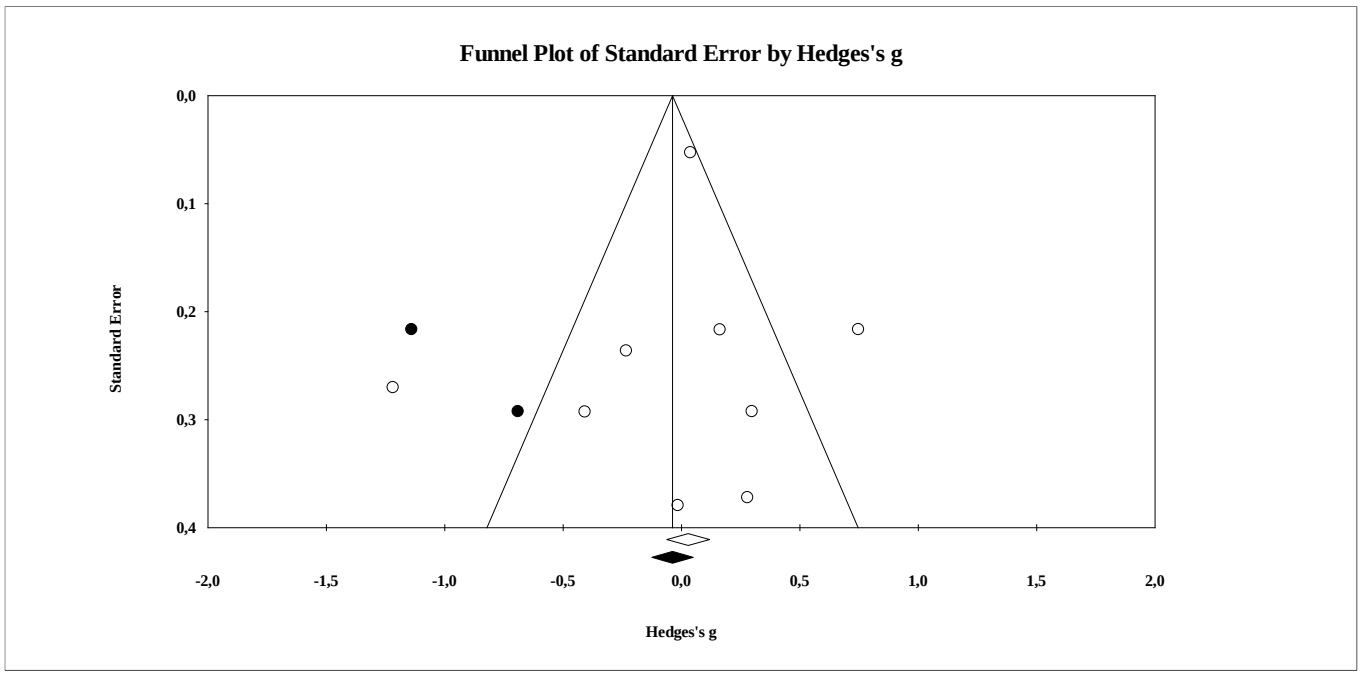
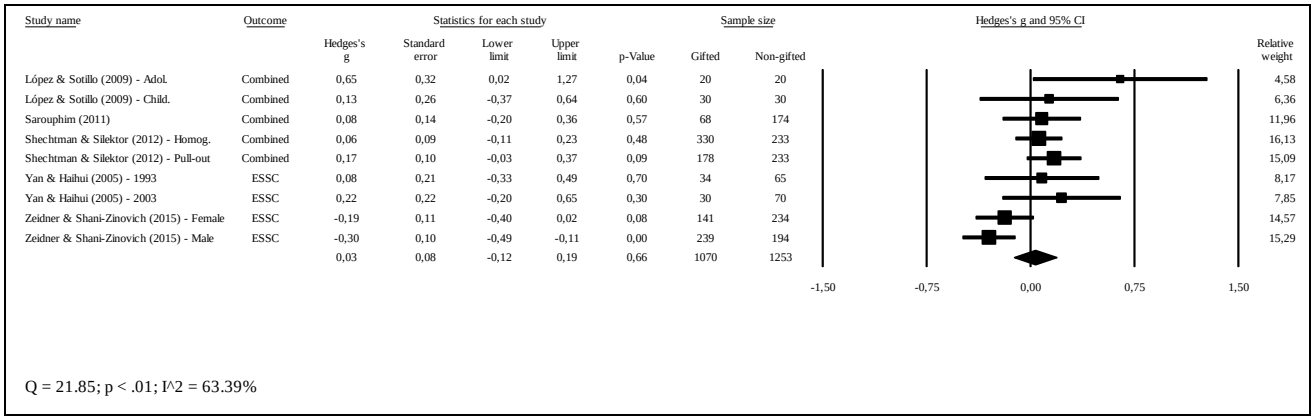


Figure S10.A

Emotional self-concept's forest plot



Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
López & Sotillo (2009) - Adol.	Combined	0,65	0,32	0,02	1,27	0,04	20	20	4,58
López & Sotillo (2009) - Child.	Combined	0,13	0,26	-0,37	0,64	0,60	30	30	6,36
Sarouphim (2011)	Combined	0,08	0,14	-0,20	0,36	0,57	68	174	11,96
Shechtman & Silektor (2012) - Homog.	Combined	0,06	0,09	-0,11	0,23	0,48	330	233	16,13
Shechtman & Silektor (2012) - Pull-out	Combined	0,17	0,10	-0,03	0,37	0,09	178	233	15,09
Yan & Haihui (2005) - 1993	ESSC	0,08	0,21	-0,33	0,49	0,70	34	65	8,17
Yan & Haihui (2005) - 2003	ESSC	0,22	0,22	-0,20	0,65	0,30	30	70	7,85
Zeidner & Shani-Zinovich (2015) - Female	ESSC	-0,19	0,11	-0,40	0,02	0,08	141	234	14,57
Zeidner & Shani-Zinovich (2015) - Male	ESSC	-0,30	0,10	-0,49	-0,11	0,00	239	194	15,29
		0,03	0,08	-0,12	0,19	0,66	1070	1253	

Q = 21.85; p < .01; I^2 = 63.39%

Figure S10.B

Emotional self-concept's funnel plot

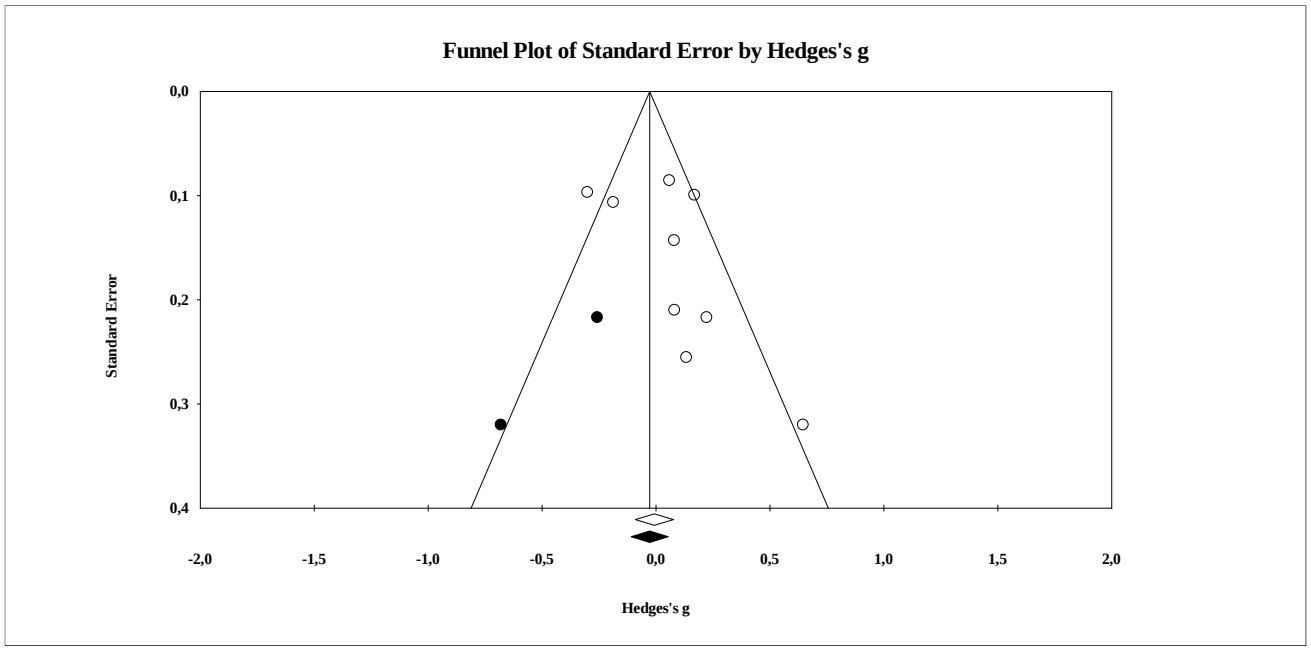


Figure S11.A

Happiness self-concept's forest plot

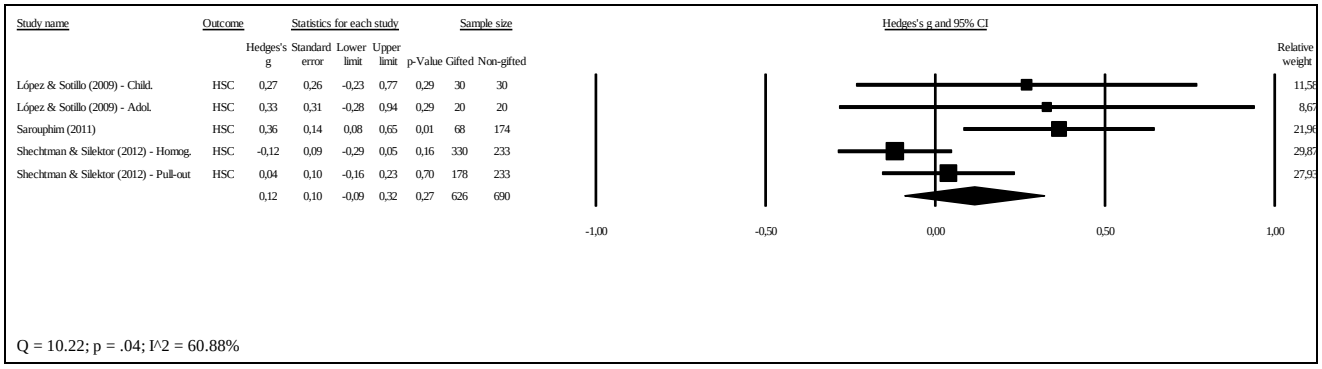


Figure S11.B

Happiness self-concept's funnel plot

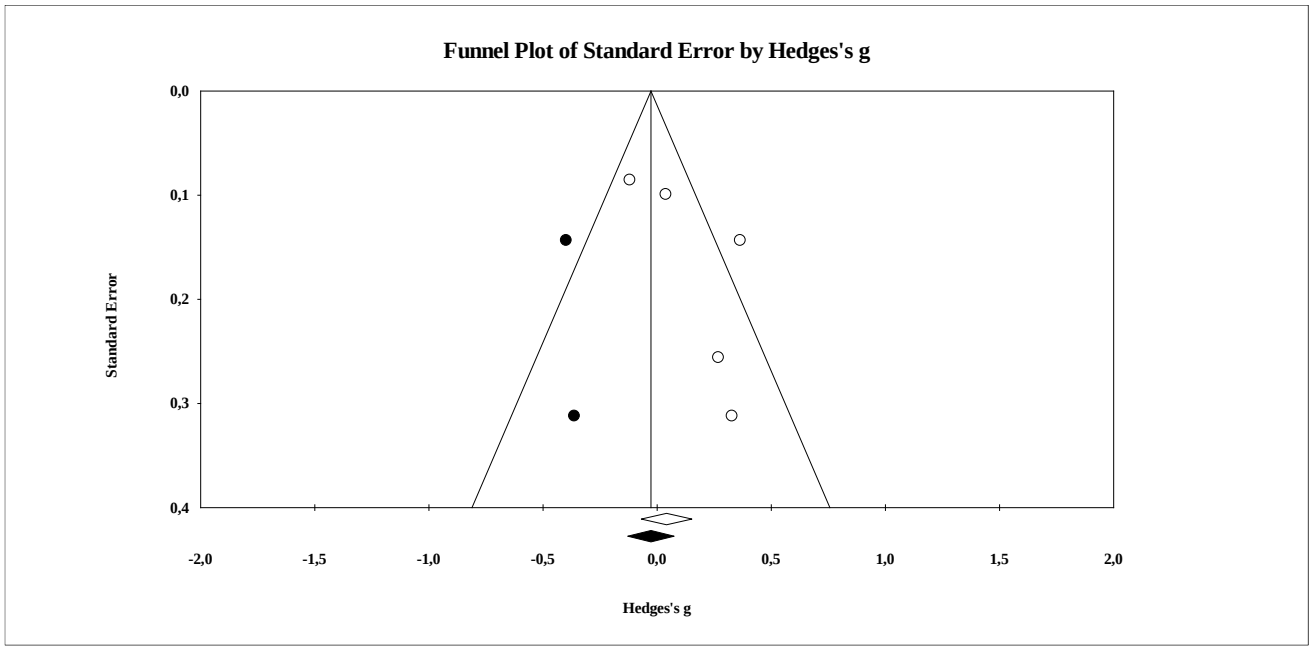


Figure S12.A

Lack of anxiety self-concept's forest plot

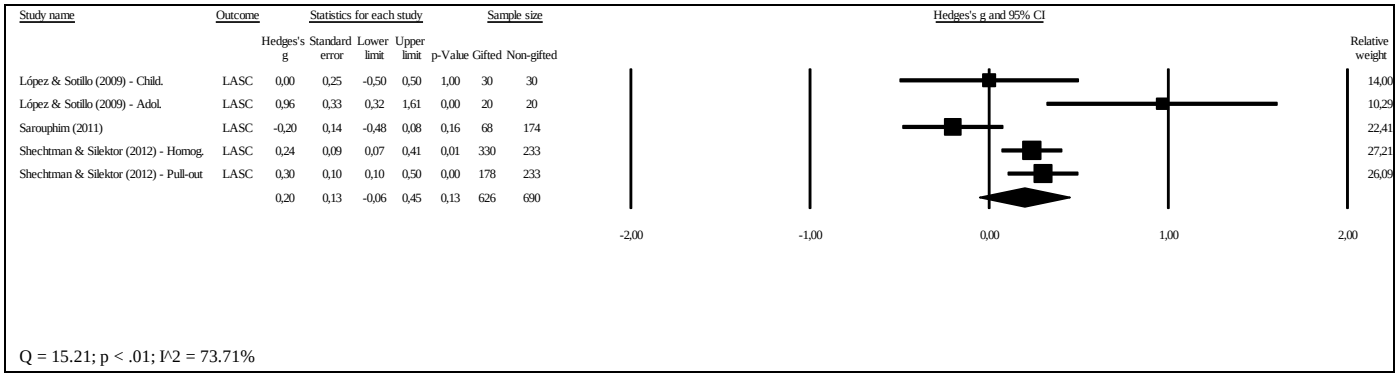


Figure S12.B

Lack of anxiety self-concept's funnel plot

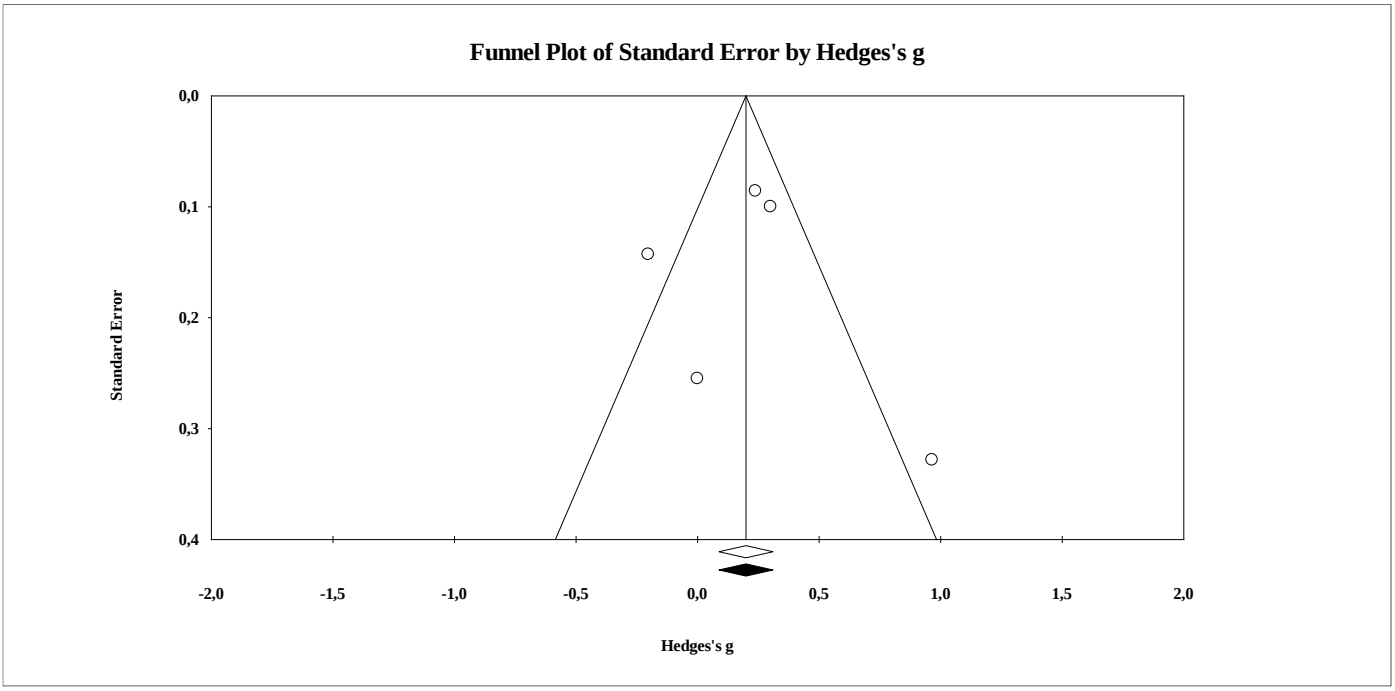


Figure S13.A

Emotional stability self-concept's forest plot

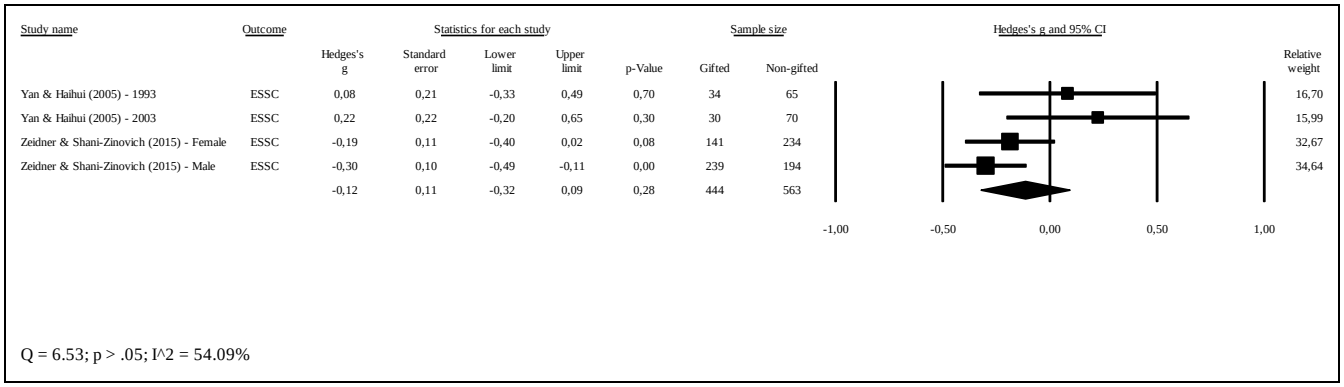


Figure S13.B

Emotional stability self-concept's funnel plot

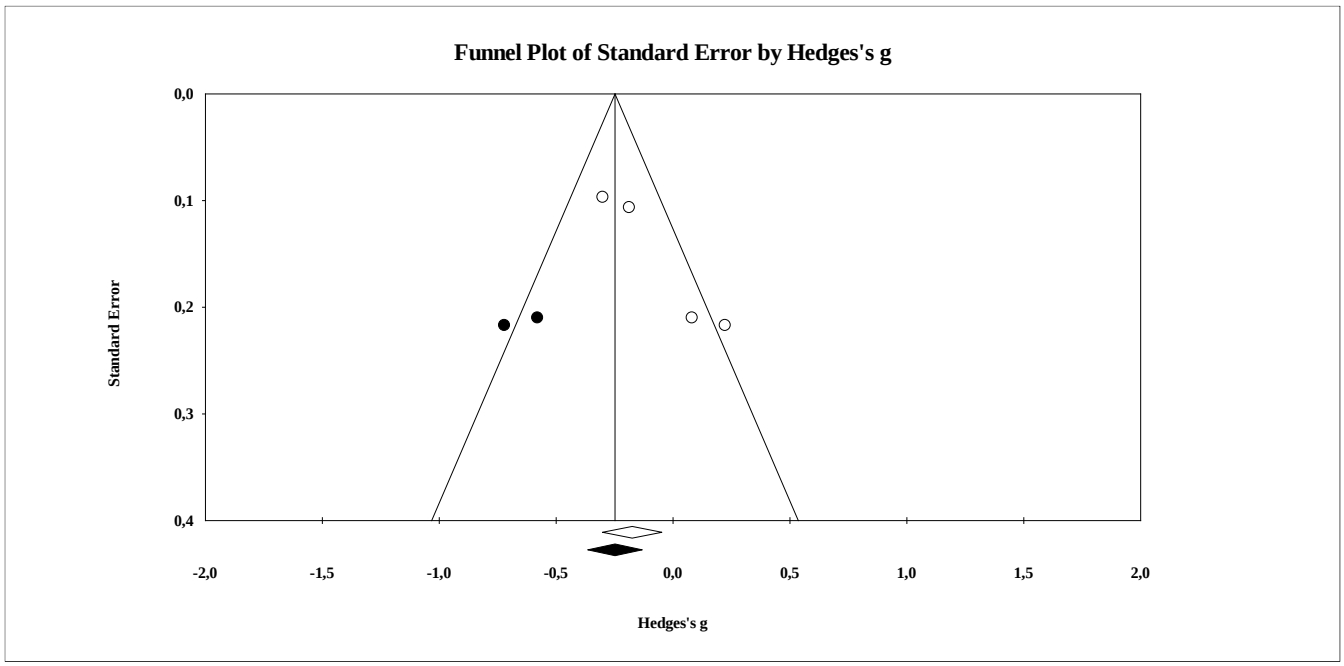
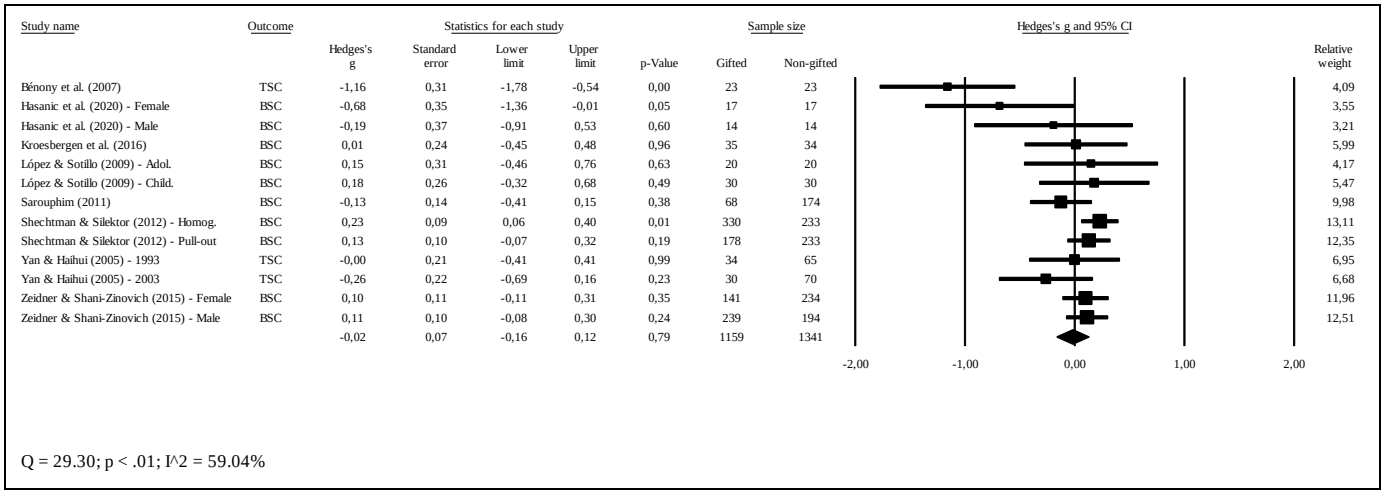


Figure S14.A

Behavioural-Trustworthiness self-concept's forest plot



Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Bénony et al. (2007)	TSC	-1,16	0,31	-1,78	-0,54	0,00	23	23	4,09
Hasanic et al. (2020) - Female	BSC	-0,68	0,35	-1,36	-0,01	0,05	17	17	3,55
Hasanic et al. (2020) - Male	BSC	-0,19	0,37	-0,91	0,53	0,60	14	14	3,21
Kroesbergen et al. (2016)	BSC	0,01	0,24	-0,45	0,48	0,96	35	34	5,99
López & Sotillo (2009) - Adol.	BSC	0,15	0,31	-0,46	0,76	0,63	20	20	4,17
López & Sotillo (2009) - Child.	BSC	0,18	0,26	-0,32	0,68	0,49	30	30	5,47
Sarouphim (2011)	BSC	-0,13	0,14	-0,41	0,15	0,38	68	174	9,98
Shechtman & Silektor (2012) - Homog.	BSC	0,23	0,09	0,06	0,40	0,01	330	233	13,11
Shechtman & Silektor (2012) - Pull-out	BSC	0,13	0,10	-0,07	0,32	0,19	178	233	12,35
Yan & Haihui (2005) - 1993	TSC	-0,00	0,21	-0,41	0,41	0,99	34	65	6,95
Yan & Haihui (2005) - 2003	TSC	-0,26	0,22	-0,69	0,16	0,23	30	70	6,68
Zeidner & Shani-Zinovich (2015) - Female	BSC	0,10	0,11	-0,11	0,31	0,35	141	234	11,96
Zeidner & Shani-Zinovich (2015) - Male	BSC	0,11	0,10	-0,08	0,30	0,24	239	194	12,51
		-0,02	0,07	-0,16	0,12	0,79	1159	1341	

Q = 29.30; p < .01; I^2 = 59.04%

Figure S14.B

Behavioural-Trustworthiness self-concept's funnel plot

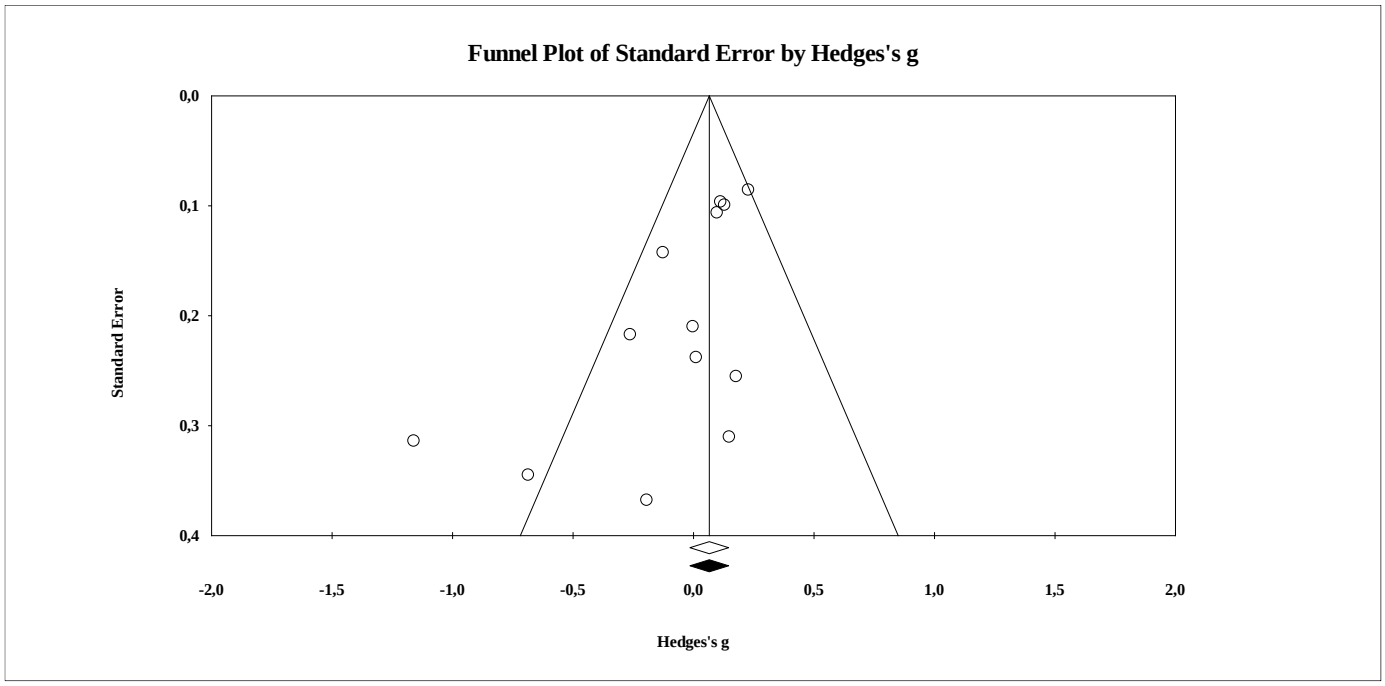
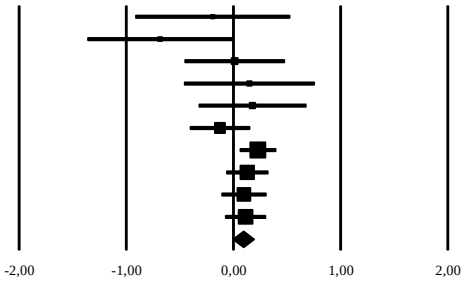


Figure S15.A

Behavioural self-concept's forest plot

Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Hasanic et al. (2020) - Male	BSC	-0,19	0,37	-0,91	0,53	0,60	14	14	1,83
Hasanic et al. (2020) - Female	BSC	-0,68	0,35	-1,36	-0,01	0,05	17	17	2,08
Kroesbergen et al. (2016)	BSC	0,01	0,24	-0,45	0,48	0,96	35	34	4,20
López & Sotillo (2009) - Adol.	BSC	0,15	0,31	-0,46	0,76	0,63	20	20	2,54
López & Sotillo (2009) - Child.	BSC	0,18	0,26	-0,32	0,68	0,49	30	30	3,68
Sarouphim (2011)	BSC	-0,13	0,14	-0,41	0,15	0,38	68	174	10,39
Shechtman & Silektor (2012) - Homog.	BSC	0,23	0,09	0,06	0,40	0,01	330	233	22,00
Shechtman & Silektor (2012) - Pull-out	BSC	0,13	0,10	-0,07	0,32	0,19	178	233	18,06
Zeidner & Shani-Zinovich (2015) - Female	BSC	0,10	0,11	-0,11	0,31	0,35	141	234	16,39
Zeidner & Shani-Zinovich (2015) - Male	BSC	0,11	0,10	-0,08	0,30	0,24	239	194	18,82
		0,09	0,05	-0,01	0,19	0,07	1072	1183	



Q = 10.91; p = .28; I^2 = 17.54%

Figure S15.B

Behavioural self-concept's funnel plot

Figure S16.A

Trustworthiness self-concept's forest plot

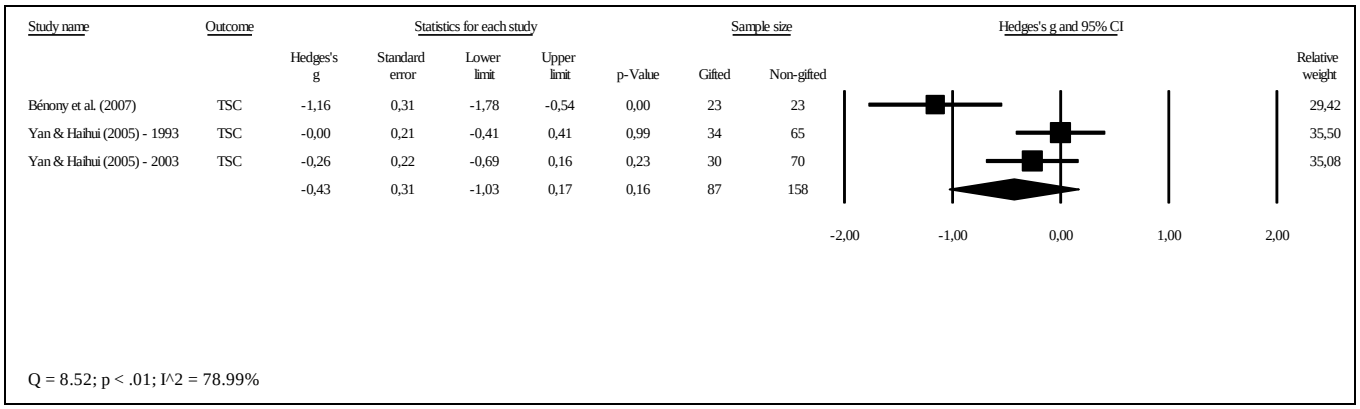


Figure S16.B

Trustworthiness self-concept's funnel plot

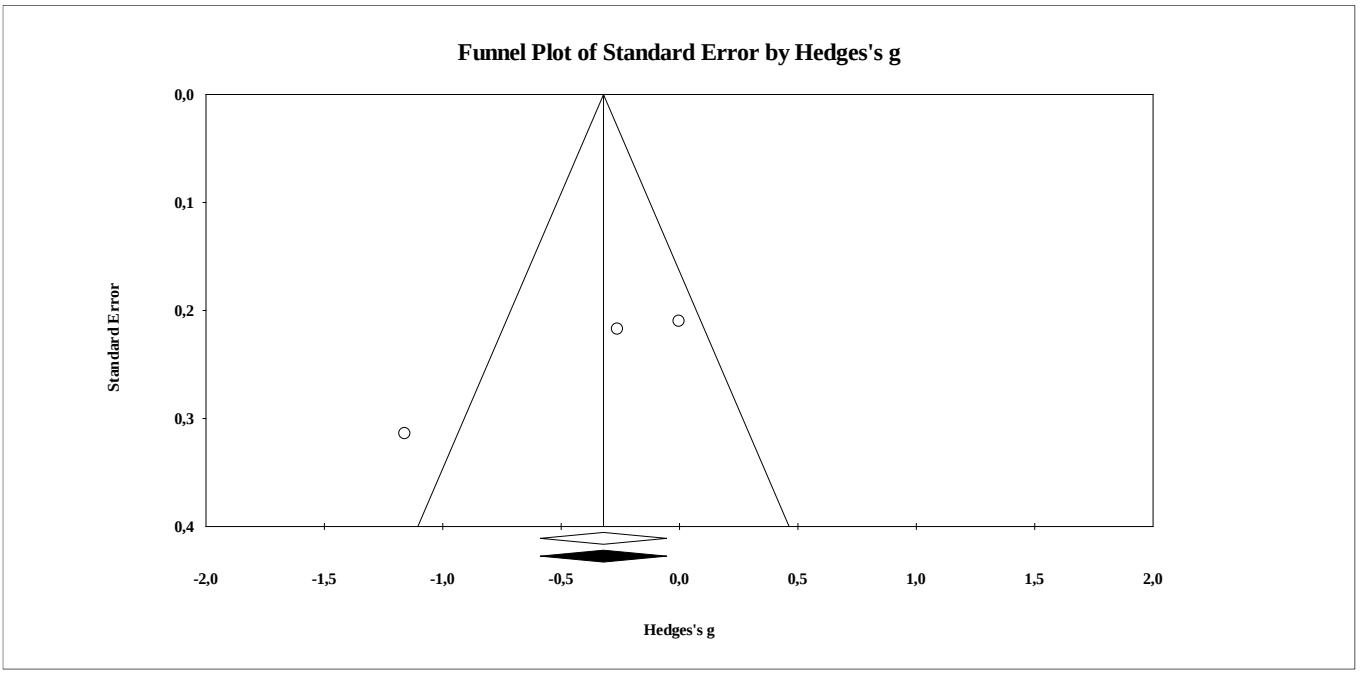
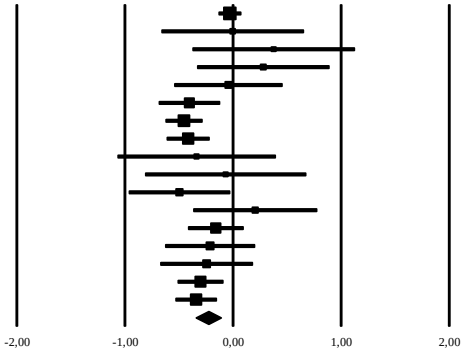


Figure S17.A

Physical self-concept's forest plot

Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Golle et al. (2018)	Combined	-0,03	0,05	-0,13	0,07	0,59	423	2328	12,22
Hasanic et al. (2020) - Females	Combined	-0,00	0,34	-0,66	0,65	0,99	17	17	2,53
Hasanic et al. (2020) - Males	Combined	0,38	0,38	-0,37	1,13	0,33	14	14	2,03
López & Sotillo (2009) - Adol.	AppSC	0,28	0,31	-0,33	0,89	0,37	20	20	2,85
López & Sotillo (2009) - Child.	AppSC	-0,04	0,25	-0,54	0,46	0,87	30	30	3,85
Sarouphim (2011)	AppSC	-0,40	0,14	-0,69	-0,12	0,00	68	174	7,52
Shechtman & Silektor (2012) - Homog.	AppSC	-0,45	0,09	-0,62	-0,28	0,00	330	233	10,50
Shechtman & Silektor (2012) - Pull-out	AppSC	-0,41	0,10	-0,61	-0,22	0,00	178	233	9,74
Shi et al. (2008) - Female/Adol.	AppSC	-0,34	0,37	-1,07	0,39	0,37	8	62	2,12
Shi et al. (2008) - Female/Child.	AppSC	-0,07	0,38	-0,81	0,68	0,86	9	25	2,06
Shi et al. (2008) - Male/Adol.	AppSC	-0,50	0,24	-0,96	-0,03	0,04	23	77	4,23
Shi et al. (2008) - Male/Child.	AppSC	0,21	0,29	-0,37	0,78	0,48	21	25	3,15
Song & Ahn (2014)	Combined	-0,16	0,13	-0,41	0,10	0,22	117	117	8,15
Yan & Haihui (2005) - 1993	Combined	-0,21	0,21	-0,63	0,20	0,32	34	65	4,96
Yan & Haihui (2005) - 2003	Combined	-0,24	0,22	-0,67	0,18	0,26	30	70	4,78
Zeidner & Shani-Zinovich (2015) - Females	PhSC	-0,30	0,11	-0,51	-0,09	0,00	141	234	9,39
Zeidner & Shani-Zinovich (2015) - Males	PhSC	-0,34	0,10	-0,53	-0,15	0,00	239	194	9,92
		-0,23	0,06	-0,34	-0,11	0,00	1702	3918	



Q =37.70; p < .01; I^2 = 57.56%

Figure S17.B

Physical self-concept's funnel plot

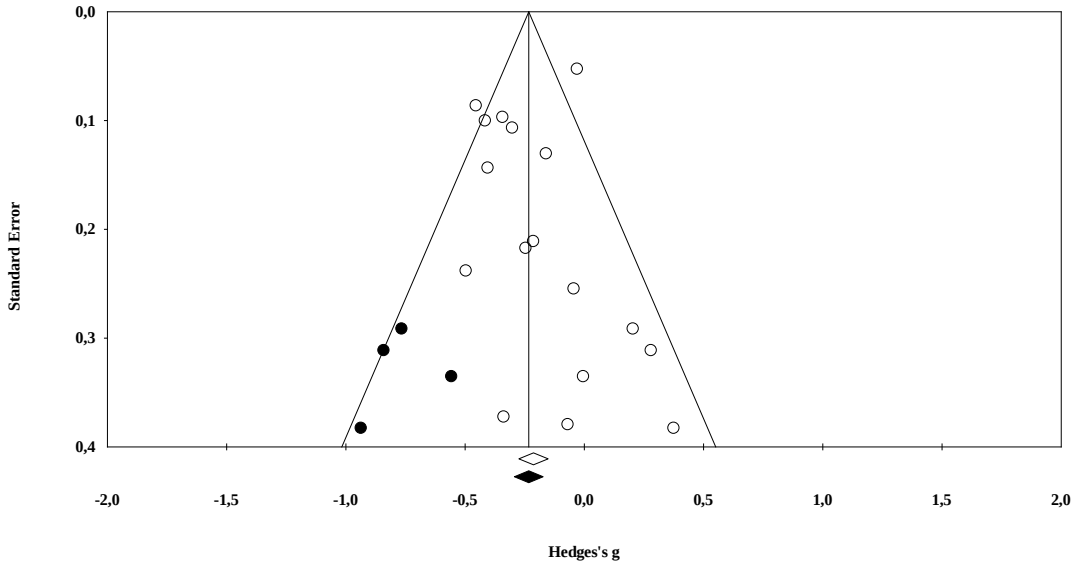
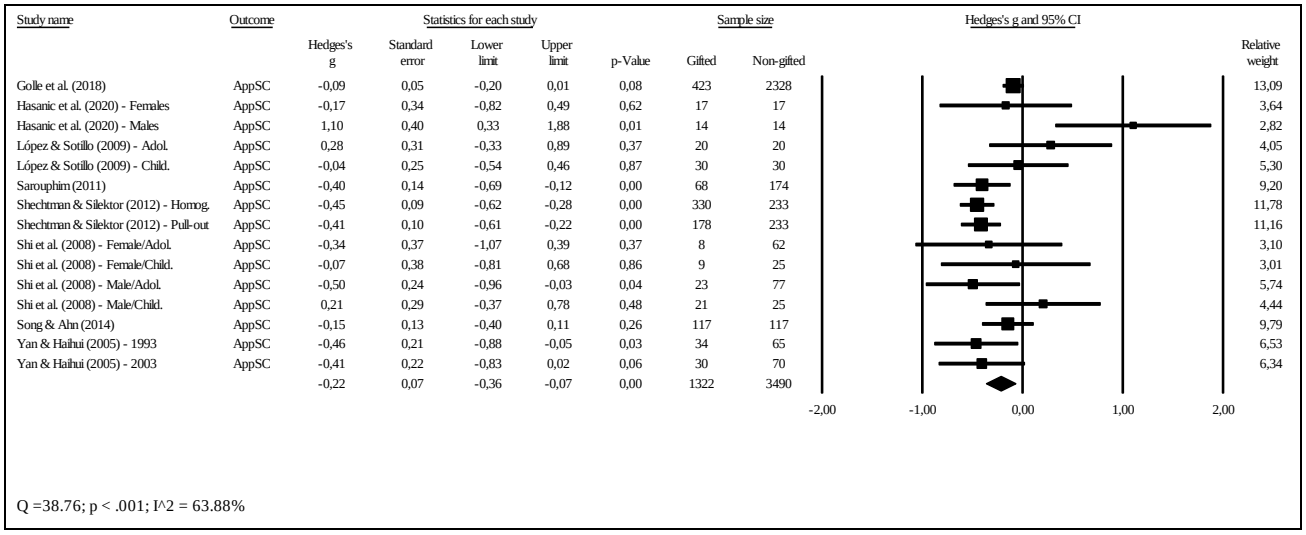


Figure S18.A

Physical appearance self-concept's forest plot



Study name	Outcome	Hedges's g	Standard error	Lower limit	Upper limit	p-Value	Gifted	Non-gifted	Relative weight
Golle et al. (2018)	AppSC	-0,09	0,05	-0,20	0,01	0,08	423	2328	13,09
Hasanic et al. (2020) - Females	AppSC	-0,17	0,34	-0,82	0,49	0,62	17	17	3,64
Hasanic et al. (2020) - Males	AppSC	1,10	0,40	0,33	1,88	0,01	14	14	2,82
López & Sotillo (2009) - Adol.	AppSC	0,28	0,31	-0,33	0,89	0,37	20	20	4,05
López & Sotillo (2009) - Child.	AppSC	-0,04	0,25	-0,54	0,46	0,87	30	30	5,30
Sarouphim (2011)	AppSC	-0,40	0,14	-0,69	-0,12	0,00	68	174	9,20
Shechtman & Silektor (2012) - Homog.	AppSC	-0,45	0,09	-0,62	-0,28	0,00	330	233	11,78
Shechtman & Silektor (2012) - Pull-out	AppSC	-0,41	0,10	-0,61	-0,22	0,00	178	233	11,16
Shi et al. (2008) - Female/Adol.	AppSC	-0,34	0,37	-1,07	0,39	0,37	8	62	3,10
Shi et al. (2008) - Female/Child.	AppSC	-0,07	0,38	-0,81	0,68	0,86	9	25	3,01
Shi et al. (2008) - Male/Adol.	AppSC	-0,50	0,24	-0,96	-0,03	0,04	23	77	5,74
Shi et al. (2008) - Male/Child.	AppSC	0,21	0,29	-0,37	0,78	0,48	21	25	4,44
Song & Ahn (2014)	AppSC	-0,15	0,13	-0,40	0,11	0,26	117	117	9,79
Yan & Haihui (2005) - 1993	AppSC	-0,46	0,21	-0,88	-0,05	0,03	34	65	6,53
Yan & Haihui (2005) - 2003	AppSC	-0,41	0,22	-0,83	0,02	0,06	30	70	6,34
		-0,22	0,07	-0,36	-0,07	0,00	1322	3490	

Q =38.76; p < .001; I^2 = 63.88%

Figure S18.B

Physical appearance self-concept's funnet plot

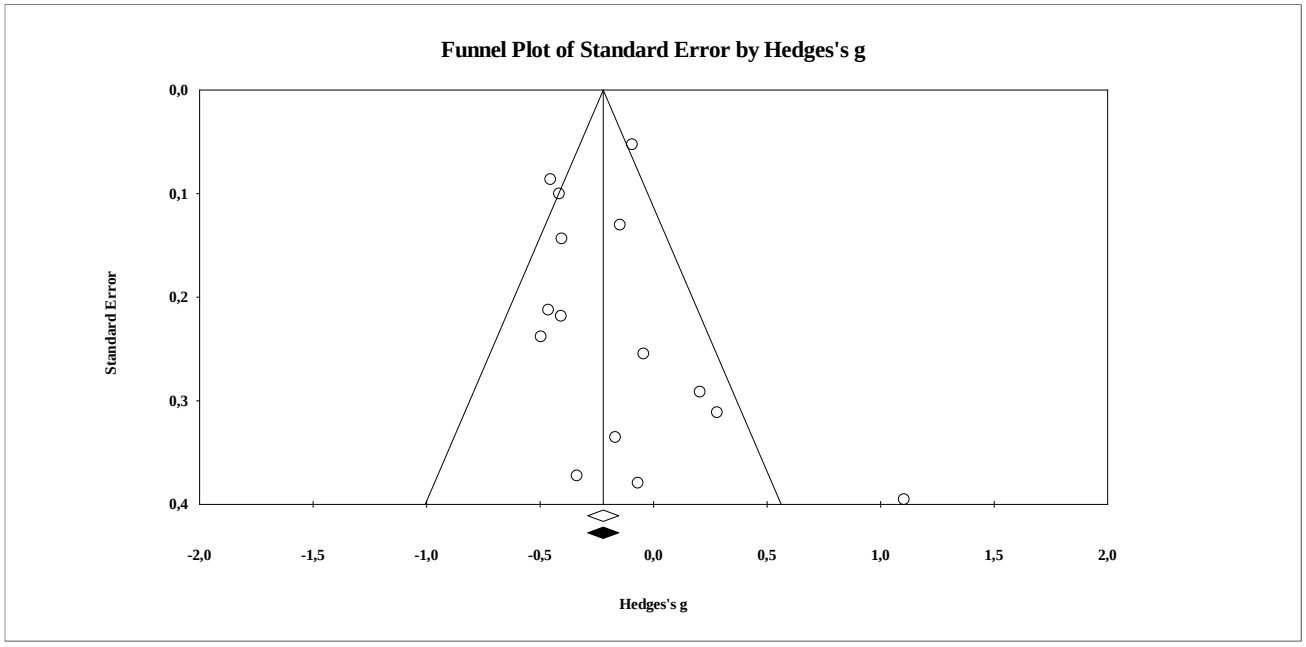


Figure S19.A

Athletic ability self-concept's forest plot

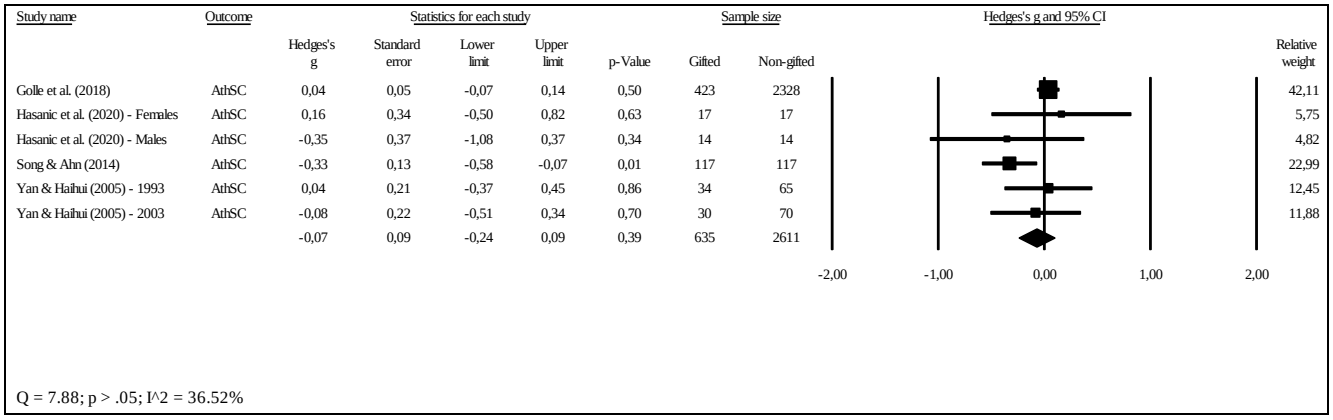
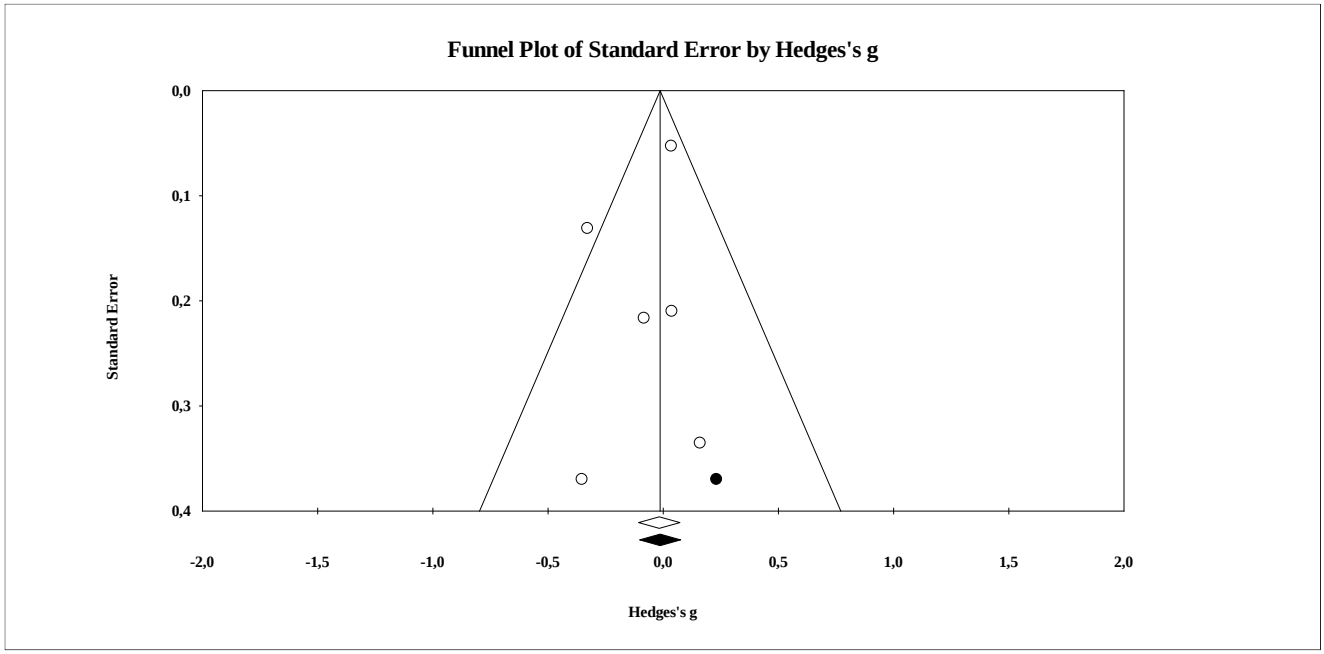


Figure S19.B

Athletic ability self-concept's funnel plot



PRISMA checklist

Section/topic	#	Checklist item	Reported on page # *
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1, 2, 3
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2, 3
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	4-7
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	7
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	7
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	7-8
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	8
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	8-9 and supplementary material
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	8-9

Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	9-10
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	9-10
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	10
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	10-11
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	10-11
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	11
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	11
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	11-12 y figure 1
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	12-13 y table 1
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	17-18, table 1 and supplementary material
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	13-18, tables 2 and 3, figure 2 and supplementary material
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	13-18 and tables 2 y 3, and supple-

			mentary material
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	13-18 and supplementary material
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	17, table 3, figure 2 and supplementary material
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	18
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	21
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	22
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	Acknowledgements and funding section.

* According to the last submitted manuscript.