Additional file 3

Full assessment of SRMA with individual items, associated component labels (i.e., domains) and, whether applicable, the guideline or tool of reference. The items of interest to be assessed in SRMAs were selected based on key information that is (i) suitable to be presented in systematic reviews with exercise intervention or exposures related to physical activity; (ii) relevant to allow methodological reproducibility; and (iii) important to describe how evidence is weighted in by authors in order to provide well-reasoned knowledge translation.

		Reference
		(guideline,
		checklist item;
		unless otherwise
Component	Item	stated)
		PRISMA, 2 and 5
Transparency	Registration: Is the review registered in a public database?	AMSTAR 2, 2
	Protocol: Is there referral of a publicly available	
	methodological protocol? (Note: if so, you must also use the	PRISMA, 5
Transparency	protocol to consult information about the review)	AMSTAR 2, 2
	Methods: Is there at least one search query fully available?	
Transparency	(Note: a full search query should allow complete replication)	PRISMA, 8
	Is there a statement regarding the data availability (data	
Transparency	sharing plan)?	Not applicable
	Title: Is the study identified as a systematic review, meta-	
Completeness	analysis, or both?	PRISMA, 1
	Abstract: Does the abstract list the data sources used in the	
	review? (Note: if more than five databases were used,	
Completeness	simplified or partial referral should be considered as "Yes")	PRISMA, 2
	Abstract: Does the abstract inform key eligibility criteria for	
Completeness	study selection?	PRISMA, 2

	Abstract: Is there a description of the number of included	
Completeness	studies?	Not applicable
	Introduction: Is there a description for the research question	
	(with PICOS elements) or precisely stated objectives (with	PRISMA, 4
Completeness	PICOS) ?	AMSTAR 2, 1
	Methods: Is there a detailed explanation of eligibility criteria	
	for PICOS elements? (Note: detailed explanation should allow	PRISMA, 6
Completeness	complete replication)	ROBIS, 1.3
	Results: Is there a full description regarding the numbers of	
Completeness	references (retrieval, eligibility, synthesis)?	PRISMA, 17
	Results: Is there a description about the sample sizes of	
Completeness	individual studies?	PRISMA, 18
	Results: Is there a description of study duration (follow-up	PRISMA, 18
Completeness	lengths)?	ROBIS, 3.2
	Is there a statement regarding the sources of funding? (Note:	PRISMA, 27
Completeness	funding for the review itself)	CONSORT, 25
	Did the review authors declare whether they had any	
Completeness	conflicts of interest (COI)?	AMSTAR 2, 16
	Abstract: Is there a description regarding the population	
Participants	(participants) or main condition(s) addressed in the review?	PRISMA, 2
	Abstract: Is there a description regarding the	
Intervention /	interventions/exposures (or, broadly, independent variables)	
Exposure	addressed in the review?	PRISMA, 2
Participants;		PRISMA, 18
Intervention /	Results: Is there a full description of characteristics? (Note:	AMSTAR 2, 8
Exposure	the available PICOS elements should be considered)	ROBIS, 3.2
	Abstract: Is there a result description for the main outcome	
Outcome	of interest?	PRISMA, 2
	Methods: Is there a description of the statistical combination	
	(meta-analysis) regarding the effect measure (e.g., relative	PRISMA, 14
Outcome	risk or mean difference), statistical method (e.g., inverse	ROBIS, 3.3

	variance), and effects approach (fixed or random)?	
	(
	Methods: Is there a description regarding the assessment of	
Outcome	statistical heterogeneity?	PRISMA, 14
	Results: Is there a minimally recommended description of	
	meta-analytic summary estimates? (Note: binary outcomes	
	as frequencies with and without the event (or as proportions	
	such as 12/45); continuous outcomes as the mean, standard	
Outcome	deviation, and sample size for each group)	PRISMA, 20, 21
	Results: Is there a full description of individual results for	
	studies composing the meta-analysis? (Note: effects size,	
	imprecision measure and percentage weight should be	
Outcome	considered)	PRISMA, 20
		PRISMA, 7
Methodological	Methods: Did the search strategy include non-published	AMSTAR 2, 4
rigor	evidence? ("grey literature")	ROBIS 2.1
	Methods: If the search is restricted for evidence generated	
Methodological	after 1980, is there an indirect or direct justification related	PRISMA, 8
rigor	to the time range?	ROBIS, 2.4
Methodological	Methods: How many languages were considered for study	PRISMA, 6
rigor	eligibility?	ROBIS, 2.4
		PRISMA, 10
Methodological		AMSTAR 2, 5
rigor	Methods: Was the study selection carried out in duplicate?	ROBIS, 2.5
Methodological		PRISMA, 11
rigor	Methods: Was the data extraction carried out in duplicate?	AMSTAR 2, 6
Methodological	Methods: Is there a description of the assessment of risk of	PRISMA, 12
rigor	biases?	ROBIS, 3.4
Methodological	Methods: Was the assessment of risk of biases carried out in	
rigor	duplicate?	ROBIS, 3.5

	Results: Is there a description of risk of bias within studies?	
	(Note: your assessment should be based on the characteristic	
Critical appraisal	of the RoB tool)	PRISMA, 22
	Results: Is there a description for non-planned modifications	
	to the synthesis during the course of the review? (e.g.:	
	change in eligibility criteria or RoB tools; please, what was	AMSTAR 2, 2
Critical appraisal	changed and its justification [why] should be considered).	ROBIS, 4.2
	Discussion: Is there a potential spin bias based on a specific	
	reporting strategy to highlight that the experimental	Based on Boutron
	treatment (or condition of interest) leads to the hypothesized	et al [1]
Critical appraisal	result?	ROBIS, C (Phase 3)
		PRISMA, 25
		AMSTAR 2, 13
	Discussion: Are the results discussed in light of the risk of	ROBIS, 4.6 and A
Critical appraisal	biases in individual studies?	(Phase 3)
		PRISMA, 25
	Discussion: Are limitations discussed at the study/outcome	AMSTAR 2, 12
Critical appraisal	and/or at the review level?	ROBIS, A (Phase 3)
Components are coded by colors, except the item related to full description of participants and		

Components are coded by colors, except the item related to full description of participants and intervention (white background), which accounts twice for both Participants and Interventions/Exposures.

AMSTAR: A MeaSurement Tool to Assess systematic Reviews; COI: conflict of interest; PICOS: acronym for Population, Intervention, Comparator/Control, Outcome, Setting; PRISMA: Preferred Reporting Items for Systematic Reviews and Meta-Analyses; ROBIS: Risk Of Bias In Systematic Reviews; RoB: risk of bias.

Component label	Number of items
Transparency	4
Completeness	11
Participants	2
Intervention / Exposure	2

Methodological rigor	7	
Outcome	5	
Critical appraisal	5	
Note: As a same item (relating to both		
Intervention/Exposure and Participants		

Intervention/Exposure and Participants components) accounts twice, the final sum totalizes 36 items.

Reference

1. Boutron I, Dutton S, Ravaud P, Altman DG. Reporting and interpretation of randomized controlled trials with statistically nonsignificant results for primary outcomes. JAMA. 2010;303:2058–64.