Supplemental Online Content

Balachandran AT, Steele J, Angielczyk D, et al. Comparison of power training vs traditional strength training on physical function in older adults: a systematic review and meta-analysis. *JAMA Netw Open*. 2022;5(5):e2211623. doi:10.1001/jamanetworkopen.2022.11623

eTable 1. Reasons for Exclusions
eFigure 1. Flow Diagram of Trial Identification and Selection for the Updated Search
eTable 2. Primary and Secondary Outcomes in Studies
eTable 3. Sub-group and Meta-Regression Analyses
eTable 4. ROB for Primary Outcomes
eTable 5. GRADE Summary of Findings
eTable 6. Sensitivity Analysis
eFigure 2. Funnel Plot for All Effects
eAppendix 1. Search Strategy
eAppendix 2. ROB Analyses

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Reasons for exclusions

1.	Miszko_2003 ¹	Intervention	Used jump squats
2.	Balachandran_2014 ²	Intervention	Used circuit training in addition to power training in
			the power group using pneumatics. Control group used weight machines and had no circuit training.
3.	Bean_2009 ³	Intervention	Exercises different between groups. exercises were based on normal functional task. Control grp performed seated exercises
4.	Bean_2004 ⁴	Intervention	Exercises different between groups. exercises were
			based on normal functional task. Control grp
			performed seated exercises
5.	Ramirez-Campillo 2014 ⁵	Intervention	Power training involved counter movement jumps
6.	Yoon_2017 ⁶	Population	Population with mild cognitive impairement
7.	Englund_2017 ⁷	Intervention	Isokinetic exercises with same instructions for both groups
8.	Macaluso_2003 ⁸	Intervention	same speed for both groups. During each set, all participants were required to pedal as fast as possible
9.	Richardson_2018 ⁹	Design	Cross over trial
10.	Hart_2003 ¹⁰		Journal club abstract
11.	Vilada_2007 ¹¹	Design	Not randomized.
12.	Drey_2012 ¹²	Duplicate	Used Zech_2012 instead since same data
13.	Vieira_2021 ¹³	Design	Not randomized

1. Miszko TA, Cress ME, Slade JM, Covey CJ, Agrawal SK, Doerr CE. Effect of strength and power training on physical function in community-dwelling older adults. *J Gerontol A Biol Sci Med Sci*. 2003;58(2):171-175.

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10. Hart LE. High-velocity resistance training for increasing peak muscle power in elderly women. *Clinical Journal of Sport Medicine*. 2003;13(1):66.

11. Villada J, Da Silva M, Alonso J. Influence of a training programme with jumps on explosive force, speed of movement and dynamic balance in the elderly. *REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA*. 2007;42(4):218.

12. Drey M, Zech A, Freiberger E, et al. Effects of strength training versus power training on physical performance in prefrail community-dwelling older adults. *Gerontology*. 2012;58(3):197-204.

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eFigure 1. Flow Diagram of Trial Identification and Selection for the updated search (October 2019 – October 2021)



Study	Physical function	Power	Strength	Gait Speed	Muscle	Balance
Feilding_2003	None	LP, KE	LP,KE	-	-	-
Bottaro_2007	GUG,CS	LP,CP	LP,CP	-		-
Henwood_2008	CS,SC	CP,LP,BC,LE,LC	BP,R,BC,LP,L C,LE	400m, 6m	LBM (DXA)-	FR
Reid_2008	None	KE,LP	LP,KE	-	-	-
Katula_2008	SPF		-	-	-	-
Marsh_2009	SPPB, SPF	LP,KE	LP,KE	-	LBM (DXA)	-
Nogueira_2009	None	LP,CP	LP,CP		RFT,BBT (US)	
Sayers_2010	None	KE		-	-	-
Correa_2012	CS	CMJ	KE		VLT,VMT,RFT (US)	-
Zech_2012	SPPB, SPF	STS	-	4m	ALM (DXA)	SB
Wallerstein_2012	None	-	LP,CP		QCSA (MRI)	-
Pamukoff_2014	None	LP, LE	LE,LP			FL,LL
Lopez_2016	GUG,CS	KE,KF,HF,HE,DF	KE,KF,LP	6min	-	SI,PP,SP,TT
Tiggerman_2016	GUG,SC	SJ,CMJ	LP,KE	6min	-	-
Richardson_2018	GUG,CS	-	LP,LE,CR,GS, R,CP,AC, TE	6min	FFM (BIA)	
Gray_2018	GUG,CS	-	CP,KC,BO, LR,TE	-	LBM (DXA)	-
Monteiro_2019	GUG,CS,S T	-	-	-	LBM (DXA)	-
Jaque_2020	TUG	STS	-	-	-	-
Coelho- Júnior_2021	TUG,CS	STS	GS,KE,HF, AE	6 min	-	OLS,SB

eTable 2. Primary and secondary outcomes in studies

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Müller_2020	GUG, SC, CS	KE,CMJ,CE	LP,KE	-	LBM (DXA), RFT, VLT,VMT	-
Total studies	13,3	15	15	6	10	5

NOTE: There could be more than one measure for the above measures in one study. For ex, LP power at 70% and 40% 1RM, 6m usual and fast-paced walk

Strength & Power - LP: Leg press, LE: Leg extension, LC: Leg curls, KE: Kee Extension, KF: Knee flexion, KC: Knee curls, HF: Hip flexion, HE: Hip extension, DF: Dorsi flexion, AE: Ankle extension, STS: Sit to Stand, CMJ: Counter movement jump, SJ: Standing jump, CE: Cycle ergometer. CP: Chest press, BC: Bicep's curl, BP: Bench press, GS: Grip strength, R: Rows, AC: Arm curls, BO: Bent over Row, LR: Lateral raise, TE: Triceps extension

Muscle mass - LBM: Lean body mass, FFM: Fat free mass, ALM: Appendicular lean mass, VLT: Vastus Lateralis thickness, VLM: Vastus medialis thickness, RFT: Rectus femoris thickness, BBT: Biceps brachii thickness, QCSA: Quadriceps cross sectional area, DXA: Dual-energy x-ray absorptiometry, US: Ultrasound, BIA: Bioelectrical Impedance Analyzer, MRI: Magnetic Resonance Imaging

Balance – FR: Functional reach, SB: Standing balance, FL: Forward lean, LL: Lateral lean, OLS: One legged stance, SI: Step Initiation, PP: Preparation phase, SP: Swing phase, TT: Total time.

eTable 3. Sub-group and meta-regression analyses^a

Subgroups	Estimate (95% CI)
High vs. Low Risk of Bias (ROB)	0.48 (-0.16, 1.12) High ROB
	0.18 (-0.06, 0.42) Low ROB
	-0.30 (-0.80, 0.19), P = 0.23 (contrasts)
High vs Low function	0.34 (-0.004, 0.69) High function
	0.19 (0.067, 0.31) Low function
	-0.15 (-0.46, 0.15), P = 0.32 (contrasts)
Outcomes ^b	Coefficients (95% CI)
Age	0.02 (-0.01, 0.05), P = 0.26
BMI	-0.06 (-0.20, 0.07), P = 0.31
Sex	0.002 (-0.008, 0.013), P = 0.65
Dunation	
Duration	0.001 (-0.01, 0.01), P = 0.88
Frequency	0.001 (-0.01, 0.01), P = 0.88 0.36 (-0.009, 0.73), P = 0.05

NOTE: a. Full output available at https://osf.io/syjnx/

b. Meta-regression scatter plots available in OSF under "Secondary Analyses" folder: https://osf.io/uzqxj/.

eTable 4. ROB for primary outcomes

1. ROB for physical function outcome





Bias arising from the randomization process Bias due to deviations from intended interventions Bias due to missing outcome data Bias in measurement of the outcome Bias in selection of the reported result **Overall risk of bias**

2. ROB for self-reported physical function outcome





Bias arising from the randomization process Bias due to deviations from intended interventions Bias due to missing outcome data Bias in measurement of the outcome Bias in selection of the reported result 9







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e lable 5. GRADE summary of findings								
Certainty Assessment								
Outcomes	Participants (studies)	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Overall certainty	Absolute effects 95%Cl
Physical Function	403 (13 RCTs)	serious ^a	not serious I ² = 48%	not serious	serious ^b	undetected	⊕⊕⊖⊖ Low	SMD 0.30 SD higher (0.05 higher to 0.54 higher)
Self- reported function	85 (3 RCTs)	not serious	not serious I ² = 32%	not serious	very serious ^{bc}	undetected	⊕⊕⊖⊖ Low	SMD 0.38 SD higher (0.62 lower to 1.37 higher)
Secondary	outcomes							
Power	409 (15 RCTs)	serious ^a	not serious I ² = 47%	not serious	serious ^b	undetected	⊕⊕⊖⊖ Low	SMD 0.44 SD higher (0.21 higher to 0.66 higher)
Strength	433 (15 RCTs)	serious ^a	not serious I ² = 25%	not serious	serious ^b	undetected	⊕⊕⊖⊖ Low	SMD 0.01 SD lower (0.14 lower to 0.16 higher)
Muscle	336 (10 RCTs)	serious ^a	not serious I ² = 0%	not serious	serious ^b	undetected	⊕⊕⊖⊖ Low	SMD 0.0004 SD lower (0.08 lower to 0.08 higher)
Gait speed	189 (6 RCTs)	serious ^a	not serious I ² = 17%	not serious	serious ^b	undetected	⊕⊕⊖⊖ Low	SMD 0.03 SD lower (0.16 lower to 0.10 higher)
Balance	139 (4 RCTs)	serious ^a	serious ^d I ² = 74%	not serious	very serious ^{bc}	undetected	⊕OOO Very low	SMD 0.05 SD higher (0.82 lower to 0.92 higher)

confidence interval; SMD: standardized mean difference

Explanations

_ . . _ ____

a. Downgraded by one level for serious risk of bias

b. Downgraded by one level because Optimum Information Size (OIS) less than 800 participants

c. Downgraded by 2 levels due to CI including appreciable harm and appreciable benefit

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d. Downgraded for high inconsistency ($I^2 = 74\%$)

NOTE: For imprecision, we used the null effect threshold for primary outcomes and a small effect threshold (0.20) for secondary outcomes. We used the optimum information size (OIS) of <800 participants for rating down as recommended. For risk of bias, we downgraded when most studies had high ROB or some concerns. For the rest and overall certainty, we followed the GRADE recommendations.

CI:

eTable 6. Sensitivity analysis

Single function tests^a

Outcomes	Estimate (95% CI)
Get up & go	0.34 (0.04, 0.63), l ² = 54%
Chair stands	0.13 (-0.06, 0.32), I ² = 0%
Stair climb	0.32 (0.11, 0.52), l ² = 28%

a. Full output available at https://osf.io/sutzf/

Dropping Influential study for primary outcomes^{bc}

Outcomes	Estimate (95% CI)
Physical function	0.23 (0.03, 0.43), l ² = 31%
Self-reported physical function	0.64 (0.27, 1.0), l ² = 32%

b. Full output available at https://osf.io/sutzf/

c. Hat values & Cook's distances at https://osf.io/ndqwb/

Pre-post correlation using r = 0.5^c

Outcomes	Estimate (95% CI)
Physical function	0.28 (0.06, 0.49), I ² = 22%
Self-reported physical function	0.36 (-0.64, 1.36), I ² = 9%

c. Full output available at https://osf.io/jqhn2/

Pre-post correlation using r = 0.9^{d}

Outcomes	Estimate (95% CI)
Physical function	0.31 (0.05, 0.56), l ² = 76%
Self-reported physical function	0.40 (-0.60, 1.39), l ² = 64%

d. Full output available at https://osf.io/brkax/



Between Condition Treatment Effect Comparison (Hedge's g; Postive values favour POW)

eAppendix 1. Search strategy

Medline

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5 and 11 and 172322exp Animals/ not (exp Animals/ and Humans/)4616467(exp child/ or exp infant/ or exp adolescent/) not ((exp child/ or exp infant/ or exp adolescent/) and (exp aged/ or exp adult/))1821295(comment or editorial or interview or news).pt.1359599(letter not (letter and randomized controlled trial)).pt.103720818 not (19 or 20 or 21 or 22)2251	or/12-16	1294874
exp Animals/ not (exp Animals/ and Humans/)4616467(exp child/ or exp infant/ or exp adolescent/) not ((exp child/ or exp infant/ or exp adolescent/) and (exp aged/ or exp adult/))1821295(comment or editorial or interview or news).pt.1359599(letter not (letter and randomized controlled trial)).pt.103720818 not (19 or 20 or 21 or 22)2251	5 and 11 and 17	2322
(exp child/ or exp infant/ or exp adolescent/) not ((exp child/ or exp infant/ or exp adolescent/) and (exp aged/ or exp adult/))1821295(comment or editorial or interview or news).pt.1359599(letter not (letter and randomized controlled trial)).pt.103720818 not (19 or 20 or 21 or 22)2251	exp Animals/ not (exp Animals/ and Humans/)	4616467
(comment or editorial or interview or news).pt.1359599(letter not (letter and randomized controlled trial)).pt.103720818 not (19 or 20 or 21 or 22)2251	(exp child/ or exp infant/ or exp adolescent/) not ((exp child/ or exp infant/ or exp adolescent/) and (exp aged/ or exp adult/))	1821295
(letter not (letter and randomized controlled trial)).pt. 1037208 18 not (19 or 20 or 21 or 22) 2251	(comment or editorial or interview or news).pt.	1359599
18 not (19 or 20 or 21 or 22) 2251	(letter not (letter and randomized controlled trial)).pt.	1037208
	18 not (19 or 20 or 21 or 22)	2251

Embase	
middle aged/ or exp aged/ or exp geriatrics/ or exp aging/	3814485
independent living/ or "home for the aged"/	14403
(middleage* or middle age* or old age or midlife or aged or aging or ageing or elderly or elders or senior or seniors or geriatric* or older or late life or lat	1659624
((community or independent or solo or alone) adj3 (dwelling or living)).ti,ab,kw	42996
or/1-4	4674338
resistance training/	16235
((power or high-velocity or velocity or ballistic or explosive*) adj5 (train* or lift* or resistance or concentric or exerci*)).ti,ab,kw	9740
(high-speed resistance).ti,ab,kw	19
((fast or quick or speed* or velocity) adj2 (reps or repetition*)).ti,ab,kw	241
(complex training or contrast training or speed-strength).ti,ab,kw	365
or/6-10	25555
exp controlled clinical trial/	756643
exp "clinical trial (topic)"/	307229
(randomi#ed or randomly or RCT\$1 or placebo*).tw.	1299701
((singl* or doubl* or trebl* or tripl*) adj (mask* or blind* or dumm*)).tw.	230358
trial.ti.	281254
or/12-16	1845103
5 and 11 and 17	3124
(exp Animal/ or nonhuman/) not ((exp Animal/ or nonhuman/) and exp Human/)	6207141
(exp child/ or exp adolescent/) not ((exp child/ or exp adolescent/) and (exp adult/))	2051653
(editorial or note).pt.	1404358
letter.pt not (letter.pt and randomized controlled trial/)	1081642
18 not (19 or 20 or 21 or 22)	2994

Central	
[mh ^"middle aged"] or [mh aged] or [mh geriatrics] or [mh ^"healthy aging"] or [mh aging]	1118
[mh ^"independent living"] or [mh ^"housing for the elderly"]	377
(middleage* or (middle NEAR/1 age*) or "old age" or midlife or aged or aging or ageing or elderly or elders or senior or seniors or geriatric* or older or "I	520309
((community or independent or solo or alone) NEAR/3 (dwelling or living)):ti,ab,kw	5171
{OR #1-#4}	521108
[mh ^"resistance training"]	2952
((power or high-velocity or velocity or ballistic or explosive*) NEAR/5 (train* or lift* or resistance or concentric or exerci*)):ti,ab,kw	2322
("high-speed resistance"):ti,ab,kw	16
((fast or quick or speed* or velocity) NEAR/2 (reps or repetitions)):ti,ab,kw	17
("complex training" or "contrast training" or "speed-strength"):ti,ab,kw	77
{OR #6-#10}	5041
#5 and #11	2372
([mh child] or [mh infant] or [mh adolescent]) not (([mh child] or [mh infant] or [mh adolescent]) and ([mh aged] or [mh adult]))	112976
#12 not #13	2192

Cinahl	
(MH "middle age") or (MH aged+) or (MH geriatrics) or (MH "healthy aging") or (MH aging+)	1152983
(MH "community living+") or (MH "housing for the elderly")	20096
(middleage* or (middle N1 age*) or "old age" or midlife or aged or aging or ageing or elderly or elders or senior or seniors or geriatric* or older or "late life" or "later life")	1320074
((community or independent or solo or alone) N3 (dwelling or living))	47778
S1 OR S2 OR S3 OR S4	1337723
(MH "resistance training")	4189
((power or high-velocity or velocity or ballistic or explosive*) N5 (train* or lift* or resistance or concentric or exerci*))	22586
("high-speed resistance")	9
((fast or quick or speed* or velocity) N2 (reps or repetition*))	112
("complex training" or "contrast training" or "speed-strength")	141
S6 OR S7 OR S8 OR S9 OR S10	26159
(PT "Clinical trial") or (PT "randomized controlled trial")	171806
(MH "Clinical Trials+")	266670
(randomised or randomized or randomly or RCT or RCTs or placebo*)	298288
((singl* or doubl* or trebl* or tripl*) N1 (mask* or blind* or dumm*))	67531
(TI trial)	94733
S12 OR S13 OR S14 OR S15 OR S16	425345
S5 and S11 and S17	2969
(MH vertebrates+) not ((MH vertebrates+) and (MH human))	167721
((MH child+) or (MH adolescence+)) not (((MH child+) or (MH adolescence+)) and (MH adult+))	525911
PT book review or commentary or editorial or interview	396408
(PT letter) not ((PT letter) and (PT "randomized controlled trial"))	273476
S18 not (S19 or S20 or S21 or S22)	2731

Psycinfo	
exp geriatrics/ or exp aging/ or ("360" or "380" or "390").ag	554824
(middleage* or middle age* or old age or midlife or aged or aging or ageing or elderly or elders or senior or seniors or geriatric* or older or late life or later life).ti, ab, id	463817
((community or independent or solo or alone) adj3 (dwelling or living)).ti,ab,id	17966
or/1-3	812139
((power or high-velocity or velocity or ballistic or explosive*) adj5 (train* or lift* or resistance or concentric or exerci*)).ti,ab,id	2401
(high-speed resistance).ti,ab,id	4
((fast or quick or speed* or velocity) adj2 (reps or repetition*)).ti,ab,id	78
(complex training or contrast training or speed-strength).ti,ab,id	114
or/5-8	2591
exp clinical trials/	11608
(randomi#ed or randomly or RCT\$1 or placebo*).tw.	162030
((singl* or doubl* or trebl* or tripl*) adj (mask* or blind* or dumm*)).tw.	25383
trial.ti.	28591
or/10-13	176381
4 and 9 and 14	52
("20").po not ("20" and "10").po	353993
("100" or "200").ag not (("100" or "200") and "300").ag	492563
("2600" or "2800" or "3000" or "3500" or "4600" or "4800" or "5000").dt	295074
15 not (16 or 17 or 18)	50

Sportdiscuss

DE "OLDER people" OR DE "EXERCISE for older people" OR DE "PHYSICAL education for older people" OR DE "PHYSICAL fitness for older people" OR DE "SPORTS for older peo	18369
(middleage* or (middle N1 age*) or "old age" or midlife or aged or aging or ageing or elderly or elders or senior or seniors or geriatric* or ol	105906
((community or independent or solo or alone) N3 (dwelling or living))	3907
S1 or S2 or S3	107287
DE "RESISTANCE training" OR DE "CONTRAST training (Physical training & conditioning)"	3084
((power or high-velocity or velocity or ballistic or explosive*) N5 (train* or lift* or resistance or concentric or exerci*))	7147
("high-speed resistance")	8
((fast or quick or speed* or velocity) N2 (reps or repetition*))	185
("complex training" or "contrast training" or "speed-strength")	793
S5 OR S6 OR S7 OR S8 OR S9	10655
(randomized or randomised or randomly or RCT or RCT or placebo* or trial)	79383
((singl* or doubl* or trebl* or tripl*) N1 (mask* or blind* or dumm*))	7710
S11 or S12	79854
S4 and S10 and S13	409

TIAB"power training" AND method "clinical trial"	49
TIAB"velocity training" AND method "clinical trial"	6
TIAB"ballistic training" AND method "clinical trial"	1
TIAB"explosive training" AND method "clinical trial"	2
TIAB"high-speed resistance" AND method "clinical trial"	8
TIAB"complex training" AND method "clinical trial"	3
TIAB"contrast training" AND method "clinical trial"	1
TIAB"speed-strength" AND method "clinical trial"	8
Total unique	71

eAppendix 2. Risk of Bias for physical function outcome

Unique ID	1	Study ID	Bottaro	Assessor	
Ref or Label	Bottaro	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	Journal article(s)
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?				No info about method of randomization or concealment. Just savs "
Bias arising from	1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?			NI	randomly assigned".
process	1.3 Did baseline differences between intervention	groups suggest a problem	with the randomization process?	Ν	NO imbalances are apparent or if any observed imbalances are compatible with chance.
	Risk of bias judgement			Some concerns	
	2.1.Were participants aware of their assigned inter	vention during the trial?		Y	
	2.2.Were carers and people delivering the interven	tions aware of participants	s' assigned intervention during the trial?	Y	Yes, both partcipants and interventionisits were aware of the groups
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations context?	from the intended interve	ntion that arose because of the experimental	PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely.
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from i	ntended intervention bala	nced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate t	he effect of assignment to	intervention?	Y	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	sult) of the failure to analyse participants in	NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or	nearly all, participants ran	domized?	Ν	16% dropped out (< 95% fr continous outcomes). 2 dropped for PT group and 3 from Control due to "family and personal reasons".
	3.2 If N/PN/NI to 3.1: Is there evidence that result	was not biased by missing	outcome data?	Ν	No they did not perform any imputation or sensitivity analysis.
Bias due to missing outcome	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?				No. Although differential drop-out, reasons were due to family and personal
uata	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?				control group than intervention.
	Risk of bias judgement				
	4.1 Was the method of measuring the outcome ina	appropriate?		Ν	Had validated and senitive measures.
	4.2 Could measurement or ascertainment of the out	stcome have differed betw	een intervention groups?	Ν	outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	4.3 Were outcome assessors aware of the interver	ntion received by study pa	rticipants?	Ν	Assessors ere blinded is not reported in the paper. But email from author says single blind
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the out	come have been influence	d by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influence	ed by knowledge of intervention received?	NA	
	Risk of bias judgement			Low	
	5.1 Were the data that produced this result analyse before unblinded outcome data were available for a	ed in accordance with a pr analysis?	e-specified analysis plan that was finalized	NI	No pre-specified analysis or protocol mentioned
Bias in selection of	5.2 multiple eligible outcome measurements (e.	g. scales, definitions, time	points) within the outcome domain?	Ν	Standard scales used at final time point. Reported functional outcomes. For ex, chair stand and get up and go required for meta.
the reported result	5.3 multiple eligible analyses of the data?			N	performed using a 2* 2 (between-within) analysis of variance (time (preand post-test) £ group (PT and TRT)) with a least-significant diVerence (LSD) post-hoc procedure. Reported raw post values.
	Risk of bias judgement			Low	
Overall bias	Risk of bias judgement			Some concerns	

Unique ID	2	Study ID	Correa	Assessor	
Ref or Label	Correa	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			NI	No info about method of randomization or concealment. Just says "
Bias arising from	1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?			NI	randomly assigned".
the randomization process	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?			PN	NO imbalances are apparent or if any observed imbalances are compatible with chance.
	Risk of bias judgement			Some concerns	

	2.1.Were participants aware of their assigned intervention during the trial?	Y	
	2.2.Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?	PY	Partopants and Interventionists were aware.
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?	Ν	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely.
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	Y	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NA	
	Risk of bias judgement	Low	
	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	Y	No drop outs reported in the final 6 weeks
Rias due te	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	NA	
missing outcome	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	NA	
uala	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NA	
	Risk of bias judgement	Low	
	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate?	Low N	Valid meaures
	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	Low N PN	Valid meaures outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants?	Low N PN N	Valid meaures outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa)
Bias in measurement of the outcome	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	Low N PN N NA	Valid meaures outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa)
Bias in measurement of the outcome	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	Low N PN N NA NA	Valid meaures outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa)
Bias in measurement of the outcome	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement	Low N PN N NA NA Low	Valid meaures outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa) Changed to some concerns since we are unsure ofthe blinding. No reponse from authors.
Bias in measurement of the outcome	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unbinded outcome data were available for analysis?	Low N PN N NA NA Low NI	Valid meaures Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa) Changed to some concerns since we are unsure of the blinding. No reponse from authors. No pre-specified analysis or protocol menotioned
Bias in measurement of the outcome Bias in selection of	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	Low N PN NA NA Low NI	Valid meaures Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa) Changed to some concerns since we are unsure of the blinding. No reponse from authors. No pre-specified analysis or protocol menotioned Just post data at 12 weeks. Reported functional outcomes. For ex, chair stand required for meta.
Bias in measurement of the outcome Bias in selection of the reported result	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unbinded outcome data were available for analysis? 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain? 5.3 multiple eligible analyses of the data?	Low N PN NA NA Low NI N	Valid meaures outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa) Changed to some concerns since we are unsure of the blinding. No reponse from authors. No pre-specified analysis or protocol menotioned Just post data at 12 weeks. Reported functional outcomes. For ex, chair stand required for meta. 2-way repeated measures analysis of variance (ANOVA) was used (2 groups x 3 times), with Bonferroni post-hoc tests. Reported ray post scores
Bias in measurement of the outcome Bias in selection of the reported result	Risk of bias judgement 4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain? 5.3 multiple eligible analyses of the data? Risk of bias judgement	Low N PN NA NA NA Low NI N N Low	Valid meaures Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points Author email said "evaluators were blinded"(S Correa) Changed to some concerns since we are unsure ofthe blinding. No reponse from authors. No pre-specified analysis or protocol menotioned Just post data at 12 weeks. Reported functional outcomes. For ex, chair stand required for meta. 2-way repeated measures analysis of variance (ANOVA) was used (2 groups x 3 times), with Bonferroni post-hoc tests. Reported raw post scores

Unique ID	3	Study ID	Zech	Assessor	
Ref or Label	Zech	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	Journal article(s)
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			Y	Yes. " by a researcher not involved in this study. Randomization was computer-generated in blocks of 12–15 participants
Bias arising from	1.2 Was the allocation sequence concealed until p	articipants were enrolled a	nd assigned to interventions?	Y	and the blinded assessor handed out sealed envelopes with group assignment to each participant"
process	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?			Ν	No major differences
	Risk of bias judgement			Low	
	2.1.Were participants aware of their assigned intervention during the trial?			Y	Deth up to surge
	2.2.Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?			Y	oun were aware.
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?				The control group was exercising too. They were exercising at a center and supervised. Deviations due to trial context are very unlikely.
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?			NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?			NA	
	2.6 Was an appropriate analysis used to estimate t	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?			Used a MIIT
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	ult) of the failure to analyse participants in	NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or	nearly all, participants ran	domized?	Ν	25% dropped in Power and 15% in Control. 19% in total. 2 dropped due to exacerbation of arthritis and vertigo from the power group.

	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	Ν	No sensitivity or imutations performed for missing outcome.
missing outcome data	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?		Although differential drop-out, only 2 drop-outs related to outcome (10%) and
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	PN	the rest unrelated.
	Risk of bias judgement	Some concerns	
	4.1 Was the method of measuring the outcome inappropriate?	Ν	Yes. valid measures.
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	Ν	outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	4.3 Were outcome assessors aware of the intervention received by study participants?		Assessors being blind reported in pre-reg , but not mentioned in paper
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?		
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?		
	Risk of bias judgement	Low	
	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	Y	Preregistration available, but not SAP
Bias in selection of	5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	Final time point and SPPB. Reported functional outcomes, SPBB required for meta.
the reported result	5.3 multiple eligible analyses of the data?	PN	A two factorial linear mixed model, appropriate for repeated measures data, was used to analyze continuous data in the main and secondary outcome variables. Reported post scores for SPPB.
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	Some concerns	

Unique ID	4	Study ID	Henwood	Assessor	
Ref or Label	Henwood	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	Journal article(s)
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			NI	Ni obcut readomination or concellent. Just wrate "readomined to either "
Bias arising from	1.2 Was the allocation sequence concealed until p	articipants were enrolled a	nd assigned to interventions?	NI	ni about randomization of coneaiment, Just wrote Trandomized to ether
process	1.3 Did baseline differences between intervention	groups suggest a problem	with the randomization process?	Ν	No major baseline differences
	Risk of bias judgement			Some concerns	
	2.1.Were participants aware of their assigned inter	vention during the trial?		Y	Vec. both participants and interventionists were sware of the groups
	2.2.Were carers and people delivering the interven	tions aware of participants	assigned intervention during the trial?	PY	res, bour participants and interventionists were aware or the groups
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?				The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely.
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from i	ntended intervention balar	nced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate t	he effect of assignment to	intervention?	Y	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	ult) of the failure to analyse participants in	NA	
	Risk of bias judgement				
	3.1 Were data for this outcome available for all, or	nearly all, participants ran	domized?	PN	4 dropped and 3 from the control. 15% drop out.
Diag due (e	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?				No No they did not perform any imputation or sensitivty analysis.
missing outcome	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?			PN	No. Although differential drop-out, "no participants
uuu	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in	the outcome depended of	n its true value?	NA	reason for leaving the study". So missing likely not related to the outcome
	Risk of bias judgement			Low	
	4.1 Was the method of measuring the outcome ina	ppropriate?		Ν	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?			Ν	
Bias in	4.3 Were outcome assessors aware of the interver	ition received by study par	ticipants?	NI	No information about blinding
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the out	come have been influence	d by knowledge of intervention received?	PY	Yes, outcome involves use of a stop watch and verbal encouragement can
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influence	ed by knowledge of intervention received?	PN	as " some concerns"

	Risk of bias judgement	Some concerns	
	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	No pre-specified analysis or protocol mentioned
Bias in selection of	5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, chair stand and stair climb and go required for meta.
the reported result	5.3 multiple eligible analyses of the data?		a two-way (Group * Time) repeated-measures analysis of covariance (ANCOVA) adjusted for sex. Adjusted scores given and not raw scores.
	Risk of bias judgement	Some concerns	
Overall bias	Risk of bias judgement	Some concerns	

Unique ID	5	Study ID	Marsh	Assessor	
Ref or Label	Marsh	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental		Comparator		Source	Journal article(s)
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			PY	Used a computer web based system, "participants were assigned to treatment
Bias arising from	1.2 Was the allocation sequence concealed until pa	articipants were enrolled a	and assigned to interventions?	PY	based data-entry and -management system." Very likely concealed too.
process	1.3 Did baseline differences between intervention g	roups suggest a problem	with the randomization process?	Ν	No imbalances are apparent or observed imbalances are compatible with chance.
	Risk of bias judgement			Low	
	2.1.Were participants aware of their assigned inter	vention during the trial?		Y	Ves both posisionate and interventionists were supre of the groups
	2.2.Were carers and people delivering the interven	tions aware of participants	s' assigned intervention during the trial?	Y	res, bour participants and interventionists were aware or the groups
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations context?	from the intended interver	ntion that arose because of the experimental	PN	The control group was exercising too. All sessions were supervised and they were exercising at a center. Deviations due to trial context are very unlikely.
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?				
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?			Y	Yes. They used a Modified ITT. The researchers didn't exclude anyone.
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?			NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or nearly all, participants randomized?			Ν	Around 25% in I and 33% in C drop out in each group. 30% in total.
Piece due te	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?			PN	No they did not perform any imputation or sensitivity analysis
missing outcome	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?				Missing was not related to true value. More dropped from control. None of the drop outs were related to the intervention. " all AEs and SAEs and did not
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?				attribute any of them to the intervention."
	Risk of bias judgement			Low	
	4.1 Was the method of measuring the outcome ina	ppropriate?		N	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
	4.2 Could measurement or ascertainment of the ou	tcome have differed betw	een intervention groups?	Ν	
Bias in	4.3 Were outcome assessors aware of the interver	tion received by study par	rticipants?	Ν	Asesors blinded to group outcomes. Emailed by the author.
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outo	come have been influence	d by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influenc	ed by knowledge of intervention received?	NA	
	Risk of bias judgement			Low	
	5.1 Were the data that produced this result analyse before unblinded outcome data were available for a	d in accordance with a pr analysis?	e-specified analysis plan that was finalized	NI	No protocol or registration.
Bias in selection of	5.2 multiple eligible outcome measurements (e.	. scales, definitions, time	points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, SPPB required for meta.
the reported result	5.3 multiple eligible analyses of the data?			PN	ANCOVA controlling for the pretest score used. Howevere, unadjusted score reported.
	Risk of bias judgement			Low	
Overall bias	Risk of bias judgement			Low	

Unique ID 6 Study ID Gray Ass	Assessor
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Ref or Label		Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	
Outcome	Physical function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			Y	N about concealment. Just mentioned" randomly
Bias arising from	1.2 Was the allocation sequence concealed until p	articipants were enrolled a	nd assigned to interventions?	NI	random numbers generator."
process	1.3 Did baseline differences between intervention	groups suggest a problem	with the randomization process?	PY	Sample sizes for 3 groups very different. (41,34 and 24)
	Risk of bias judgement			High	
	2.1.Were participants aware of their assigned inter	vention during the trial?		Y	Yes, both participants and interventionists were aware of the groups
	2.2.Were carers and people delivering the interven	tions aware of participants	assigned intervention during the trial?	PY	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations context?	from the intended interver	ntion that arose because of the experimental	PN	The control group was exercising too. They were exercising at a community center. Deviations due to trial context are very unlikely. " supervised by a member of the research team
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from i	ntended intervention balar	nced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate t	he effect of assignment to	intervention?	PY	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	ult) of the failure to analyse participants in	NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or	nearly all, participants ran	domized?	Ν	
Bias due to	3.2 If N/PN/NI to 3.1: Is there evidence that result	was not biased by missing	outcome data?	PN	No they did not perform any imputation or sensitivity analysis.
missing outcome data	3.3 If N/PN to 3.2: Could missingness in the outcom	me depend on its true valu	le?	PN	There was a 17% differemce in drop outs betwen the groups. But The most common reasons for dropping out were lack of interest, health
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in	the outcome depended o	n its true value?	NA	issues, and scheduling conflicts. Highest drop out was int he control group.
	Risk of bias judgement			Low	
	4.1 Was the method of measuring the outcome ina	ppropriate?		PN	Had validated and sensitive measures.
	4.2 Could measurement or ascertainment of the out	tcome have differed betw	een intervention groups?	PN	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in measurement of	4.3 Were outcome assessors aware of the interver	tion received by study par	ticipants?	NI	
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the oute	come have been influence	d by knowledge of intervention received?	PY	Yes, outcome involves use of a stop watch and verbal encouragement can affect outcome. We are unsure if blinding was implemented, hence we rated
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influenc	ed by knowledge of intervention received?	PN	as "some concerns"
	Risk of bias judgement			Some concerns	
	5.1 Were the data that produced this result analyse before unblinded outcome data were available for a	ed in accordance with a pr analysis?	e-specified analysis plan that was finalized	NI	No pre-specified analysis or protocol mentioned
Bias in selection of	5.2 multiple eligible outcome measurements (e.g	g. scales, definitions, time	points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, chair stand and get up and go required for meta
the reported result	5.3 multiple eligible analyses of the data?			PN	Used ANCOVA adjusted for baseline. Unsure about if adjusted scores.
	Risk of bias judgement			Some concerns	
Overall bias	Risk of bias judgement			High	

	Study ID	Lopez	Assessor	
	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Power	Comparator	Control	Source	Journal article(s)
Physical function	Results		Weight	1
Signalling question			Response	Comments
1.1 Was the allocation sequence random?			PY	No info about method of randomization or concealment. Just says " were randomly assigned (using a computer generated list) to 2"
1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?				
ess 1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?		PN	No imbalances are apparent or observed imbalances are compatible with chance.	
Risk of bias judgement			Some concerns	
2.1.Were participants aware of their assigned intervention during the trial?			Y	rres, both participants and interventionists were aware of the groups
· · · · · · · · · · · · · · · · · · ·	ower ysical function gnalling question 1 Was the allocation sequence random? 2 Was the allocation sequence concealed until pr 3 Did baseline differences between intervention g isk of bias judgement 1.Were participants aware of their assigned inter-	Study ID Aim ower Comparator tysical function Results gnalling question Item intervention 1 Was the allocation sequence random? 2 2 Was the allocation sequence concealed until participants were enrolled a 3 3 Did baseline differences between intervention groups suggest a problem isk of bias judgement 1.Were participants aware of their assigned intervention during the trial?	Study ID Lopez Aim assignment to intervention (the 'intention-to-treat' effect) ower Comparator tysical function Results gnalling question I Was the allocation sequence random? 2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions? 3 Did baseline differences between intervention groups suggest a problem with the randomization process? isk of bias judgement I.Were participants aware of their assigned intervention during the trial?	Study ID Lopez Assessor Aim assignment to intervention (the 'intention- to-treat' effect) Source ower Comparator Control Source tysical function Results Weight gnalling question Response PY 2 Was the allocation sequence random? PY 2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions? NI 3 Did baseline differences between intervention groups suggest a problem with the randomization process? PN isk of bias judgement Some concerns 1.Were participants aware of their assigned intervention during the trial? Y

	2.2.Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?	Y	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?	PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely. "performed under the direct supervision of an exercise instructor to ensure safety and the maintenance of
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	PY	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.
	2.7 If NPNNI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NA	
	Risk of bias judgement	Low	
	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	PN	8 dropped from Int. and 6 from control. So 10% difference
	3.2 If NPN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	N	No, they did not perform any imputation or sensitivity analysis.
Bias due to missing outcome	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	NI	No info about why they dropped out. Also int showed sig. improvement in
Gata	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NI	chair stand and TUG.
	Risk of bias judgement	High	
	4.1 Was the method of measuring the outcome inappropriate?	PN	Had validated and sensitive measures
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	4.3 Were outcome assessors aware of the intervention received by study participants?	N	Blinded based on authos email "Yes, it was a single blind study."
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	NA	
	Risk of bias judgement	Low	
	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	No pre-specified analysis or protocol mentioned
Bias in selection of	5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, chair stand and get up and go required for meta.
the reported result	5.3 multiple eligible analyses of the data?	PN	unadjusted extracted from graphs
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	High	

Unique ID	8	Study ID	Richardson	Assessor	
Ref or Label		Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			PY	No info about method of randomization or concealment. Just says " randomly allocated".
Bias arising from	Bias arising from the randomization process 1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions? 1.3 Did baseline differences between intervention groups suggest a problem with the randomization process? Risk of bias judgement				
process					No imbalances are apparent or observed imbalances are compatible with chance.
	2.1.Were participants aware of their assigned intervention during the trial?			Y	Yes, both participants and interventionists were aware of the groups
	2.2.Were carers and people delivering the interven	tions aware of participants	s' assigned intervention during the trial?	PY	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations context?	from the intended interver	ntion that arose because of the experimental	PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely.
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from i	ntended intervention balar	nced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?		PY	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.	
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	sult) of the failure to analyse participants in	NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or nearly all, participants randomized?			PY	only 1 drop put 5%
	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?				

Bias due to missing outcome data	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	NA	
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NA	
	Risk of bias judgement	Low	
	4.1 Was the method of measuring the outcome inappropriate?	Ν	Had validated and sensitive measures.
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	4.3 Were outcome assessors aware of the intervention received by study participants?	Y	Assessors were not blind to groups stated in paper
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	PY	Yes, outcome involves use of a stop watch and verbal encouragement can
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	PY	allect outcome.
	Risk of bias judgement	High	
	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	No pre-specified analysis or protocol mentioned
Bias in selection of	5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, chair stabd and 8 ft up and go required for meta.
the reported result	5.3 multiple eligible analyses of the data?	PN	ANCOVA performed. But unadjusted scores reported. TUG not significant
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	High	

Unique ID	9	Study ID	Tiggermann	Assessor	
Ref or Label		Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	Journal article(s)
Outcome		Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			PY	No info about method of randomization or concealment. Just savs "
Bias arising from	1.2 Was the allocation sequence concealed until pa	articipants were enrolled a	nd assigned to interventions?	NI	randomly assigned. " Participants were randomly assigned"
process	1.3 Did baseline differences between intervention g	groups suggest a problem	with the randomization process?	PN	No imbalances are apparent or observed imbalances are compatible with chance.
	Risk of bias judgement			Some concerns	
	2.1.Were participants aware of their assigned inter	vention during the trial?		Y	Yes, both participants and interventionists were aware of the groups
	2.2.Were carers and people delivering the interven	tions aware of participants	assigned intervention during the trial?	PY	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?				The control group was exercising too. They were exercising at a center and supervised. Deviations due to trial context are very unlikely
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from i	ntended intervention balar	nced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate t	he effect of assignment to	intervention?	PY	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	ult) of the failure to analyse participants in	NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or	nearly all, participants ran	domized?	PN	20% (3) in PT and 13% (2) in each group
	3.2 If N/PN/NI to 3.1: Is there evidence that result v	was not biased by missing	outcome data?	PN	No they did not perform any imputation or sensitivty analysis.
Bias due to missing outcome data	3.3 If N/PN to 3.2: Could missingness in the outcor	me depend on its true valu	e?	PN	1 discontuned intervention but no reasons given. 1 unrelated to study. So 2
uutu	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in	the outcome depended o	n its true value?	NA	study. No sig difference in function scores.
	Risk of bias judgement			Some concerns	
	4.1 Was the method of measuring the outcome ina	ppropriate?		PN	Had validated and sensitive measures.
	4.2 Could measurement or ascertainment of the out	tcome have differed betw	een intervention groups?	PN	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	4.3 Were outcome assessors aware of the interver	tion received by study par	ticipants?	Ν	single blind, but sure what they mean
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outo	come have been influence	d by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influenc	ed by knowledge of intervention received?	NA	
	Risk of bias judgement			Low	

Bias in selection of	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	No pre-specified analysis or protocol mentioned
	5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, chair stand and stair climb required for meta.
the reported result	S.3 multiple eligible analyses of the data?	N	Training-related effects were assessed using a two-way analysis of variance (ANOVA) with repeated measures (group vs. time). Unadjusted scores reported.
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	Some concerns	

Unique ID	10	Study ID	Jaque	Assessor	
Ref or Label		Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator	Control	Source	Journal article(s)
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?			PY	No info about method of randomization or concealment. Just says "
Bias arising from	1.2 Was the allocation sequence concealed until pa	articipants were enrolled a	nd assigned to interventions?	NI	randomly allocated"
process	1.3 Did baseline differences between intervention g	roups suggest a problem	with the randomization process?	PN	No imbalances are apparent or observed imbalances are compatible with chance.
	Risk of bias judgement			Some concerns	
	2.1.Were participants aware of their assigned inter-	vention during the trial?		Y	
	2.2.Were carers and people delivering the intervent	tions aware of participants	assigned intervention during the trial?	PY	res, both pantopants and interventionists were aware of the groups
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations context?	from the intended interver	ntion that arose because of the experimental	PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?				
	2.6 Was an appropriate analysis used to estimate t	he effect of assignment to	intervention?	PN	Excluded participants . nine females were excluded from final analyses, resulting in 14 and 12 participants completing HST and MST. Not an ITT
	2.7 If N/PN/NI to 2.6: Was there potential for a sub- the group to which they were randomized?	stantial impact (on the res	ult) of the failure to analyse participants in	PY	
	Risk of bias judgement			High	
	3.1 Were data for this outcome available for all, or	nearly all, participants ran	domized?	Y	No drop outs or lost tof ollow ups based on the personal email from author. (Jorge)
.	3.2 If N/PN/NI to 3.1: Is there evidence that result v	vas not biased by missing	outcome data?	NA	
Bias due to missing outcome data	3.3 If N/PN to 3.2: Could missingness in the outcor	ne depend on its true valu	le?	NA	
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in	the outcome depended or	outcome depended on its true value?		
	Risk of bias judgement			Low	
	4.1 Was the method of measuring the outcome inappropriate?				Had validated and sensitive measures.
	4.2 Could measurement or ascertainment of the ou	tcome have differed betwe	een intervention groups?	PN	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
Bias in	4.3 Were outcome assessors aware of the interven	tion received by study par	ticipants?	Ν	"The same investigator, who was blinded to the group allocation, conducted all measurements both before and after the intervention"
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outo	come have been influence	d by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influence	ed by knowledge of intervention received?	NA	
	Risk of bias judgement			Low	
	5.1 Were the data that produced this result analyse before unblinded outcome data were available for a	ed in accordance with a pro analysis?	e-specified analysis plan that was finalized	NI	No pre-specified analysis or protocol mentioned
Bias in selection of	5.2 multiple eligible outcome measurements (e.g	J. scales, definitions, time	points) within the outcome domain?	Ν	Standard scales used at one time point. Reported functional outcomes. For ex, get up and go required for meta. Reported post scores
the reported result	5.3 multiple eligible analyses of the data?			Ν	Yes. But reported post scores.
	Risk of bias judgement			Low	
Overall bias	Risk of bias judgement			High	

Unique ID	11	Study ID	Coelho-Júnior	Assessor	
Ref or Label	Coelho-Júnior	Aim	assignment to intervention (the 'intention- to-treat' effect)		

Experimental	Power	Comparator	Control	Source	
Outcome	Physical function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?				"A computer-generated list of random numbers was used by
Bias arising from	1.2 Was the allocation sequence concealed until pa	articipants were enrolled a	nd assigned to interventions?	NI	an independent researcher". So it likely that it is concealed.
process	1.3 Did baseline differences between intervention g	roups suggest a problem	with the randomization process?	PN	Baseline difference exist.
	Risk of bias judgement			Some concerns	
	2.1.Were participants aware of their assigned inter	vention during the trial?		Y	
	2.2.Were carers and people delivering the interven	tions aware of participants	assigned intervention during the trial?	Y	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations context?	from the intended interver	tion that arose because of the experimental	PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely
Bias due to deviations from	2.4 If Y/PY to 2.3: Were these deviations likely to h	ave affected the outcome	?	NA	
intended interventions	2.5. If Y/PY/NI to 2.4: Were these deviations from i	ntended intervention balar	ced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate t	he effect of assignment to	intervention?	PY	MITT. one from the HSRT and one from the LSRT, withdrew after 2 weeks because they were not randomized to the same exercise group
	2.7 If N/PN/NI to 2.6: Was there potential for a sub the group to which they were randomized?	stantial impact (on the res	ult) of the failure to analyse participants in	NA	
	Risk of bias judgement			Low	
	3.1 Were data for this outcome available for all, or nearly all, participants randomized?			PY	2 dropped . Each from Power and control. 9%.
Diag due te	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?				
missing outcome	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?				
uuu	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in	the outcome depended or	n its true value?	NA	
	Risk of bias judgement			Low	
	4.1 Was the method of measuring the outcome ina	ppropriate?		PN	
	4.2 Could measurement or ascertainment of the ou	tcome have differed betwee	een intervention groups?	PN	
Bias in	4.3 Were outcome assessors aware of the interver	tion received by study par	ticipants?	NI	No information about blinding
the outcome	4.4 If Y/PY/NI to 4.3: Could assessment of the outo	come have been influence	d by knowledge of intervention received?	PY	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of	the outcome was influence	ed by knowledge of intervention received?	PY	
	Risk of bias judgement			Some concerns	
	5.1 Were the data that produced this result analyse before unblinded outcome data were available for a	ed in accordance with a pranalysis?	e-specified analysis plan that was finalized	PN	Retrospective pregisitration
Bias in selection of	5.2 multiple eligible outcome measurements (e.	. scales, definitions, time	points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, get up and go required for meta. Reported post scores
the reported result	5.3 multiple eligible analyses of the data?			PN	Yes. But post data reported.
	Risk of bias judgement			Low	
Overall bias	Risk of bias judgement			Some concerns	

Unique ID	12	Study ID	Müller	Assessor	
Ref or Label	Müller	Aim	assignment to intervention (the 'intention- to-treat' effect)		
Experimental	Power	Comparator		Source	
Outcome	Physical Function	Results		Weight	1
Domain	Signalling question			Response	Comments
	1.1 Was the allocation sequence random?				"participants were randomly assigned into two separate intervention groups through electronic randomization (https ://www.rando mizer .org)"
Bias arising from	1.2 Was the allocation sequence concealed until p	articipants were enrolled a	nd assigned to interventions?	PY	"Concealment was guaranteed by a researcher who was blinded with respect to the participants."
process	1.3 Did baseline differences between intervention	3 Did baseline differences between intervention groups suggest a problem with the randomization process?			NO imbalances are apparent or if any observed imbalances are compatible with chance.
	Risk of bias judgement			Low	
	2.1.Were participants aware of their assigned intervention during the trial?			Y	
	2.2.Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?			Y	

	2.3. If Y/PY/N to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?	PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely		
Bias due to deviations from intended interventions	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?	NA			
	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?	NA			
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	PY	Yes. They used a Modified ITT. The researchers didn't exclude anyone nor were anyone analyzed in the wrong group.		
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NA			
	Risk of bias judgement	Low			
	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	PN	12.5% dropped out. 3 dropped from the PT and 2 from the ST group. Mainly nn-intervention related.		
Bias due to missing outcome data	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	PN	No they did not perform any imputation or sensitivty analysis.		
	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	PN	The drops outs were related to "non-intervention health related" and two due		
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NA	to professional issues		
	Risk of bias judgement	Low			
	4.1 Was the method of measuring the outcome inappropriate?	N			
	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	N PN			
Bias in	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants?	N PN N	*Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention.*		
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	N PN N NA	"Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention."		
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	N PN N NA	"Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention."		
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement	N PN NA NA Low	"Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention."		
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	N PN NA NA Low	"Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention."		
Bias in measurement of the outcome Bias in selection of	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	N PN NA NA Low NI PN	"Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention." No preregistration reported Standard scales used at one time point. Reported functional outcomes. For ex, get up and go required for meta. Reported fox scores		
Bias in measurement of the outcome Bias in selection of the reported result	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome measurements (e.g. scales, definitions, time points) within the outcome domain? 5.3 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	N PN NA NA Low NI PN	Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention." No preregistration reported Standard scales used at one time point. Reported functional outcomes. For ex, get up and go required for meta. Reported post scores Yes. But post data reported.		
Bias in measurement of the outcome Bias in selection of the reported result	4.1 Was the method of measuring the outcome inappropriate? 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? 4.3 Were outcome assessors aware of the intervention received by study participants? 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? Risk of bias judgement 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain? 5.3 multiple eligible analyses of the data? Risk of bias judgement	N PN NA NA Low NI PN PN Low	"Tests were performed by the same investigators (who were blinded regarding group allocation) before the intervention and 8 and 16 weeks post-intervention." No preregistration reported Standard scales used at one time point. Reported functional outcomes. For ex, get up and go required for meta. Reported post scores Yes. But post data reported.		

Unique ID	13	Study ID	Monteiro	Assessor		
Ref or Label	Monteiro	Aim	assignment to intervention (the 'intention- to-treat' effect)			
Experimental	Power	Comparator	Control	Source		
Outcome	Physical Function	Results		Weight	1	
Domain	Signalling question			Response	Comments	
Bias arising from the randomization process	1.1 Was the allocation sequence random?			PY		
	1.2 Was the allocation sequence concealed until p	articipants were enrolled a	and assigned to interventions?	NI	NO INIO about method of randomization of concealment.	
	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?				No imbalances are apparent or observed imbalances are compatible with chance.	
	Risk of bias judgement			Some concerns		
Bias due to deviations from intended interventions	2.1.Were participants aware of their assigned intervention during the trial?			Y		
	2.2.Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?			Y		
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?			PN	The control group was exercising too. They were exercising at a center. Deviations due to trial context are very unlikely	
	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?			NA		
	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?					
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?			PN	Yes. They did not use an ITT. The researchers excluded partipants with < 85% attendance. But no info about how many were excluded and from which groups.	
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?			PY		
	Risk of bias judgement			High		
Bias due to missing outcome data	3.1 Were data for this outcome available for all, or nearly all, participants randomized?			NI	No info about drop outs or missing data. All partcipants completed the 8 month study it appears.	
	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?			PN		
	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?				There was no info to evaluate this info. Author emailed 10 subjects dropped	

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	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NI	(25% missing), but no info on the groups from which they dropped.
	Risk of bias judgement	Some concerns	
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate?	PN	Had validated and sensitive measures.
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	Outcome measurement (data collection) involve the same measurement methods and thresholds, used at comparable time points
	4.3 Were outcome assessors aware of the intervention received by study participants?	Ν	No information about blinding. But authors email confirmed blinding. Assessors were blinded
	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	NA	
	Risk of bias judgement	Low	
Bias in selection of the reported result	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	No pre-specified analysis or protocol mentioned
	5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	Standard scales used at one time point. Reported functional outcomes. For ex, chair stand and get up and go required for meta.
	5.3 multiple eligible analyses of the data?	PN	Yes. But post data reported.
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	High	

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