

Supplementary material

Supplementary to: Xiankun Chen et al. Taichi and Qigong Practices for Chronic Heart Failure: A Systematic Review and Meta-analysis of Randomized Controlled Trials.

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Contents

Search strategy	3
Supplementary Tables	4
<i>eTable 1 Sensitivity analysis of the effect size of Peak VO₂, 6MWD, MLHFQ, LVEF, BNP.....</i>	<i>4</i>
Supplementary Figures: Flow chart.....	7
<i>eFig. 1 Flow chart of study identification and selection.....</i>	<i>7</i>
Supplementary Figures: Meta-analysis results	8
<i>eFig. 2 MLHFQ total scores, TQPs plus RMs versus RMs (supplements to Fig. 2A).....</i>	<i>8</i>
<i>eFig. 3 MLHFQ total scores, TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 2B)</i>	<i>9</i>
<i>eFig. 4 6MWD (meters), TQPs plus RMs versus RMs (supplements to Fig. 3A)</i>	<i>10</i>
<i>eFig. 5 6MWD (meters), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 3B).....</i>	<i>11</i>
<i>eFig. 6 Peak VO₂ (mL/kg/min), TQPs plus RMs versus RMs (supplements to Fig. 4A)</i>	<i>12</i>
<i>eFig. 7 Peak VO₂ (mL/kg/min), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 4B).....</i>	<i>12</i>
<i>eFig. 8 LVEF (%), TQPs plus RMs versus RMs (supplements to Fig. 5A).....</i>	<i>13</i>
<i>eFig. 9 LVEF (%), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 5B)</i>	<i>14</i>
<i>eFig. 10 BNP (pg/mL), TQPs plus RMs versus RMs (supplements to Fig. 6A)</i>	<i>15</i>
<i>eFig. 11 BNP (pg/mL), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 6B)</i>	<i>16</i>
Supplementary Figures: Risk of bias and publication bias.....	17
<i>eFig. 12 Risk of bias summary:</i>	<i>17</i>
<i>eFig. 13 Risk-of-bias graph.....</i>	<i>17</i>
<i>eFig. 14 Publication bias</i>	<i>18</i>
PRISMA 2009 Checklist.....	17

Search strategy

PubMed search strategy

1. "Heart Failure"[Mesh] OR
2. "heart failure"[Title/Abstract] OR "cardiac failure"[Title/Abstract] OR "Myocardia failure"[Title/Abstract] OR "Ventricular failure"[Title/Abstract] OR "Heart decompensation"[Title/Abstract]
3. or1/2
4. "traditional exercise*" [Text Word] OR "chinese traditional exercise*" [Text Word] OR "traditional chinese exercise*" [Text Word] OR "chinese exercise*" [Text Word]
5. "taiji"[Title/Abstract] OR "tai ji"[Title/Abstract] OR "tai chi"[Title/Abstract] OR "qigong"[Title/Abstract] OR "qi gong"[Title/Abstract] OR "liuzijue"[Title/Abstract] OR "liu zi jue"[Title/Abstract] OR "wuqinxixi"[Title/Abstract] OR "wu qin xi"[Title/Abstract] OR "yijinjing"[Title/Abstract] OR "yi jin jing"[Title/Abstract] OR "baduanjin"[Title/Abstract] OR "ba duan jin"[Title/Abstract] OR "eight section brocades"[Title/Abstract] OR "eight section brocades"[Title/Abstract]
6. or/4-5
7. "Randomized Controlled Trial" [Publication Type]
8. "Controlled Clinical Trial" [Publication Type]
9. randomized[Text Word]
10. placebo[Text Word]
11. randomly[Text Word]
12. trial[Text Word]
13. groups[Text Word]
14. or/7-13
15. ("Animals"[Mesh]) NOT ((("Animals"[Mesh]) AND "Humans"[Mesh]))
16. 14 not 15
17. 3 AND 6 AND 16

CNKI search strategy

1. FT=随机 OR FT=随机分配 OR FT=随机对照 OR FT=对照 OR FT=盲法 OR FT=单盲 OR FT=双盲 OR FT=随机对照试验 OR FT=随机对照研究 OR FT=临床试验 OR FT=临床观察 OR FT=临床研究
2. SU=太极拳 OR SU=气功 OR SU=六字诀 OR SU=易筋经 OR SU=五禽戏 OR SU=八段锦 OR SU=传统训练 OR SU=中国传统运动训练 OR SU=中国训练(精确匹配)
3. SU=心血管疾病 OR SU=冠心病 OR SU=高血压 OR SU=高血脂 OR SU=心绞痛 OR SU=心肌梗死 OR SU=心律失常 OR SU=心衰 OR SU=心力衰竭 OR SU=心肌缺血 OR SU=动脉粥样硬化 OR SU=冠状动脉疾病 OR SU=高血压
4. AND/1-

Supplementary Tables

eTable 1 Sensitivity analysis of the effect size of Peak VO₂, 6MWD, MLHFQ, LVEF, BNP

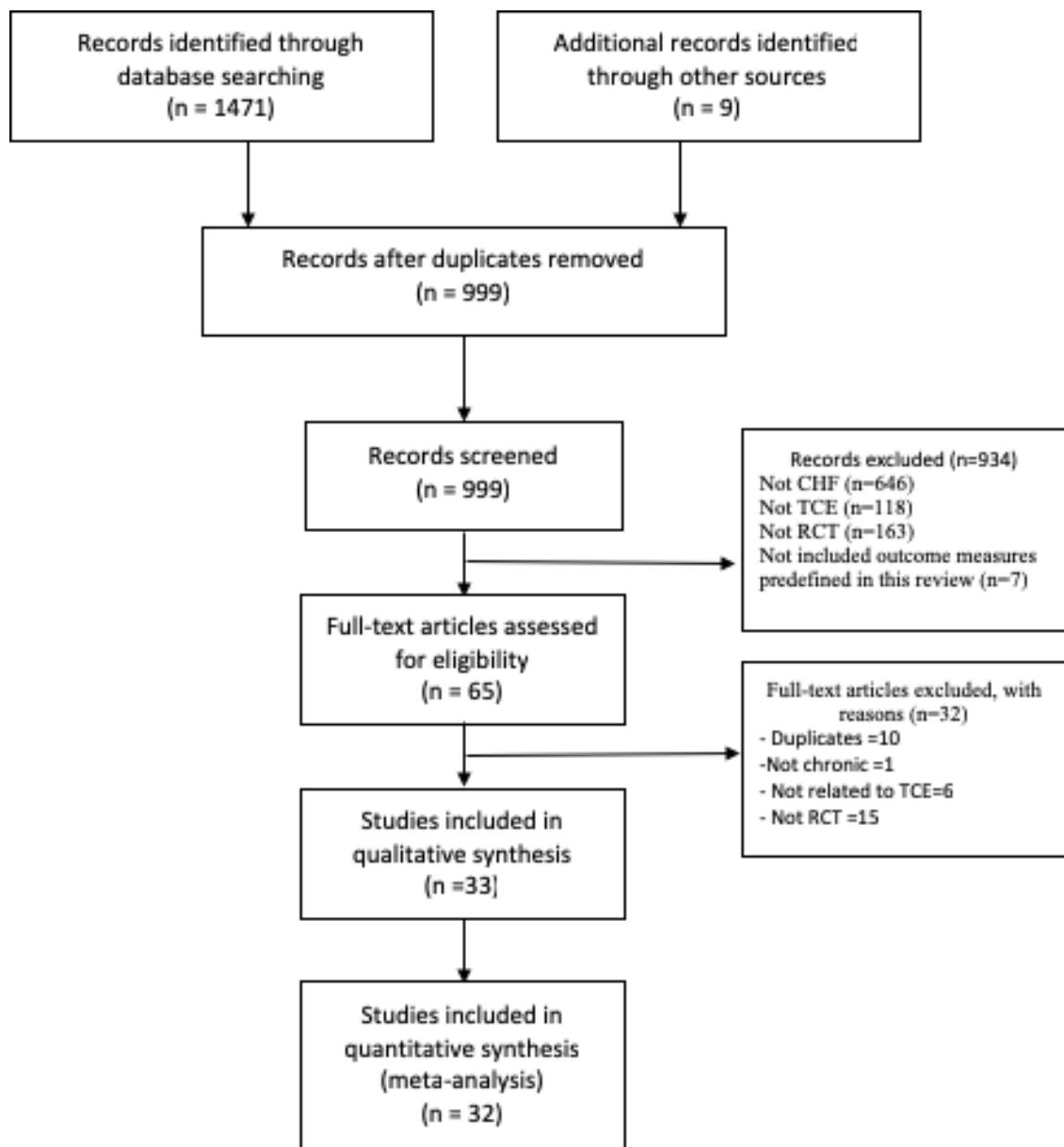
Outcomes		Effect size	Heterogeneity
ID	Study removed	Mean difference [95%CI] (P-value)	(P-value for I ²); I ²
MLHFQ, A. TQPs versus no exercise			
Overall pooled results		-8.63 [-10.60, -6.67]	(P < 0.00001)
1	Barrow 2007	-8.47 [-10.46, -6.47]	(P < 0.00001)
3	Chen 2017	-8.88 [-10.91, -6.85]	(P < 0.00001)
4	Feng 2017	-8.48 [-10.52, -6.44]	(P < 0.00001)
5	Huang 2014	-9.17 [-11.19, -7.15]	(P < 0.00001)
10	Sang 2015	-8.28 [-10.24, -6.33]	(P < 0.00001)
12	Xiong 2016	-8.85 [-11.15, -6.55]	(P < 0.00001)
16	Yao 2010	-8.31 [-10.34, -6.28]	(P < 0.00001)
17	Yeh 2004	-8.42 [-10.38, -6.46]	(P < 0.00001)
19	Yeh 2011	-8.49 [-10.49, -6.50]	(P < 0.00001)
22	Yuan 2016	-9.05 [-11.17, -6.94]	(P < 0.00001)
23.1	Zheng 201701 (C1)	-8.18 [-10.15, -6.22]	(P < 0.00001)
24	Shi 2018	-8.29 [-10.33, -6.26]	(P < 0.00001)
26	Liu 2017	-9.01 [-11.34, -6.68]	(P < 0.00001)
32	Lu 2019	-9.06 [-10.79, -7.33]	(P < 0.00001)
MLHFQ, B. TQPs versus conventional exercises			
Overall pooled results		-9.18 [-17.95, -0.41]	(P = 0.04)
			(P = 0.0001); I² = 86%
7	Li 2017	-5.63 [-11.76, 0.51]	(P = 0.07)
20	Yeh 2013	-10.44 [-20.12, -0.77]	(P = 0.03)
23.2	Zheng 201702 (C2)	-8.29 [-20.69, 4.12]	(P = 0.19)
25	Yu 2018	-13.02 [-20.57, -5.47]	(P = 0.0007)
6MWD, A. TQPs versus no exercise			
Overall pooled results		59.63 [43.35, 75.90]	(P < 0.00001)
			(P < 0.00001); I² = 88%
5	Huang 2014	65.04 [48.40, 81.68]	(P < 0.00001)
6	Li 2015	58.43 [41.46, 75.41]	(P < 0.00001)
8	Pan 2016	61.22 [43.00, 79.44]	(P < 0.00001)
10	Sang 2015	61.35 [44.32, 78.38]	(P < 0.00001)
12	Xiong 2016	58.29 [41.35, 75.23]	(P < 0.00001)

Outcomes		Effect size		Heterogeneity
ID	Study removed	Mean difference [95%CI]	(P-value)	(P-value for I ²); I ²
14	Yan 2016	58.41 [41.84, 74.98]	(P < 0.00001)	(P < 0.00001); I ² = 89%
15	Yang 2015	58.31 [41.76, 74.86]	(P < 0.00001)	(P < 0.00001); I ² = 89%
16	Yao 2010	57.11 [40.55, 73.68]	(P < 0.00001)	(P < 0.00001); I ² = 88%
17	Yeh 2004	58.33 [41.94, 74.72]	(P < 0.00001)	(P < 0.00001); I ² = 89%
19	Yeh 2011	57.52 [41.87, 73.18]	(P < 0.00001)	(P < 0.00001); I ² = 88%
21	Yu 2015	54.84 [39.36, 70.32]	(P < 0.00001)	(P < 0.00001); I ² = 88%
23.1	Zheng 201701 (C1)	55.37 [39.89, 70.85]	(P < 0.00001)	(P < 0.00001); I ² = 88%
26	Liu 2017	59.54 [39.07, 80.01]	(P < 0.00001)	(P < 0.00001); I ² = 88%
30	Yu 2019 (2)	57.48 [40.64, 74.33]	(P < 0.00001)	(P < 0.00001); I ² = 88%
31	Deng 2018	49.41 [36.34, 62.48]	(P < 0.00001)	(P < 0.00001); I ² = 80%
34.1	Redwine 2019 (C1)	59.03 [43.50, 74.56]	(P < 0.00001)	(P < 0.00001); I ² = 88%
35	Zheng 2018	58.11 [42.30, 73.91]	(P < 0.00001)	(P < 0.00001); I ² = 88%
6MWD, B. TQPs versus conventional exercises				
Overall pooled results		46.66 [-18.17, 111.49]	(P = 0.16)	(P < 0.00001); I ² = 97%
2	Caminiti 2011	51.40 [-30.13, 132.93]	(P = 0.22)	(P < 0.00001); I ² = 98%
7	Li 2017	20.86 [7.40, 34.32]	(P = 0.002)	(P = 0.28); I ² = 20%
20	Yeh 2013	46.83 [-20.55, 114.22]	(P = 0.17)	(P < 0.00001); I ² = 98%
23.2	Zheng 201702 (C2)	42.58 [-27.89, 113.06]	(P = 0.24)	(P < 0.00001); I ² = 98%
25	Yu 2018	50.74 [-33.99, 135.48]	(P = 0.24)	(P < 0.00001); I ² = 97%
29	Yu 201900	50.29 [-25.56, 126.13]	(P = 0.19)	(P < 0.00001); I ² = 98%
34.2	Redwine 2019 (C2)	62.82 [-6.91, 132.55]	(P = 0.08)	(P < 0.00001); I ² = 98%
Peak VO₂, A. TQPs versus no exercise				
Overall pooled results		1.24 [0.91, 1.57]	(P < 0.00001)	(P = 0.55); I ² = 0%
4	Feng 2017	1.26 [0.80, 1.71]	(P < 0.00001)	(P = 0.35); I ² = 5%
17	Yeh 2004	1.25 [0.91, 1.58]	(P < 0.00001)	(P = 0.35); I ² = 5%
19	Yeh 2011	1.29 [0.95, 1.63]	(P < 0.00001)	(P = 0.93); I ² = 0%
24	Shi 2018	1.14 [0.68, 1.61]	(P < 0.00001)	(P = 0.42); I ² = 0%
Peak VO₂, B. TQPs versus conventional exercises				
Overall pooled results		0.14 [-0.43, 0.70]	(P = 0.64)	(P = 0.42); I ² = 0%
NA				
LVEF, A. TQPs versus no exercise				
Overall pooled results		3.97 [1.22, 6.72]	(P = 0.005)	(P < 0.00001); I ² = 96%

Outcomes		Effect size		Heterogeneity
ID	Study removed	Mean difference [95%CI]	(P-value)	(P-value for I ²); I ²
4	Feng 2017	4.58 [1.72, 7.45]	(P = 0.002)	(P < 0.00001) I ² = 96%
5	Huang 2014	4.19 [1.21, 7.17]	(P = 0.006)	(P < 0.00001) I ² = 96%
8	Pan 2016	4.11 [1.20, 7.02]	(P = 0.006)	(P < 0.00001) I ² = 96%
10	Sang 2015	2.92 [1.07, 4.77]	(P = 0.002)	(P < 0.00001) I ² = 88%
12	Xiong 2016	3.93 [0.93, 6.92]	(P = 0.01)	(P < 0.00001) I ² = 97%
16	Yao 2010	3.43 [0.49, 6.36]	(P = 0.02)	(P < 0.00001) I ² = 96%
23.1	Zheng 201701 (C1)	4.20 [1.42, 6.99]	(P = 0.003)	(P < 0.00001) I ² = 96%
24	Shi 2018	4.54 [1.64, 7.43]	(P = 0.002)	(P < 0.00001) I ² = 96%
26	Liu 2017	3.74 [-0.32, 7.79]	(P = 0.07)	(P < 0.00001) I ² = 96%
30	Yu 2019 (2)	3.81 [0.75, 6.87]	(P = 0.01)	(P < 0.00001) I ² = 97%
31	Deng 2018	4.05 [0.97, 7.12]	(P = 0.010)	(P < 0.00001) I ² = 96%
LVEF, B. TQPs versus conventional exercises				
Overall pooled results		3.17 [-1.25, 7.59]	(P = 0.14)	(P = 0.60); I² = 0%
20	Yeh 2013	1.84 [-0.33, 4.01]	(P = 0.10)	(P = 0.60); I ² = 0%
23.2	Zheng 201702 (C2)	1.74 [-0.39, 3.88]	(P = 0.11)	(P = 0.55); I ² = 0%
25	Yu 2018	1.65 [-1.14, 4.45]	(P = 0.25)	(P = 0.40); I ² = 0%
29	Yu 201900	0.72 [-2.11, 3.55]	(P = 0.62)	(P = 0.58); I ² = 0%
BNP, A. TQPs versus no exercise				
Overall pooled results		-76.12 [-134.61, -17.62]	(P = 0.01)	(P < 0.00001); I² = 95%
5	Huang 2014	-89.86 [-154.23, -25.48]	(P = 0.006)	(P < 0.00001); I ² = 96%
6	Li 2015	-80.84 [-154.47, -7.21]	(P = 0.03)	(P < 0.00001); I ² = 96%
8	Pan 2016	-41.57 [-62.44, -20.70]	(P < 0.0001)	(P = 0.13); I ² = 39%
14	Yan 2016	-69.96 [-131.96, -7.96]	(P = 0.03)	(P < 0.00001); I ² = 96%
15	Yang 2015	-71.19 [-132.84, -9.55]	(P = 0.02)	(P < 0.00001); I ² = 96%
17	Yeh 2004	-75.52 [-135.27, -15.78]	(P = 0.01)	(P < 0.00001); I ² = 96%
19	Yeh 2011	-84.45 [-148.96, -19.94]	(P = 0.01)	(P < 0.00001); I ² = 96%
28	Li 2019	-84.09 [-156.82, -11.37]	(P = 0.02)	(P < 0.00001); I ² = 94%
BNP, B. TQPs versus conventional exercises				
Overall pooled results		61.29 [-52.22, 174.79]	(P = 0.29)	(P = 0.04); I² = 77%
NA				

Supplementary Figures: Flow chart

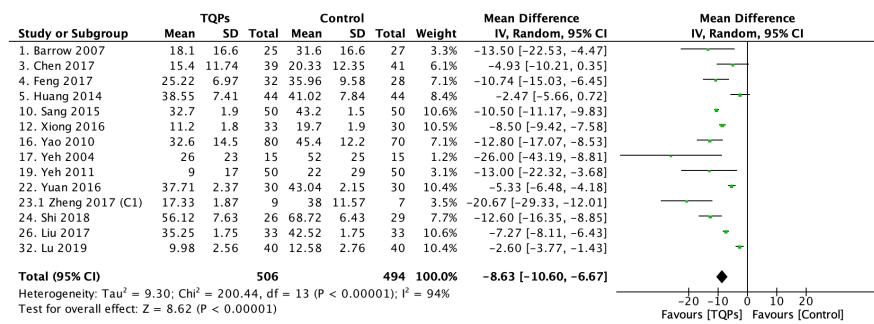
eFig. 1 Flow chart of study identification and selection



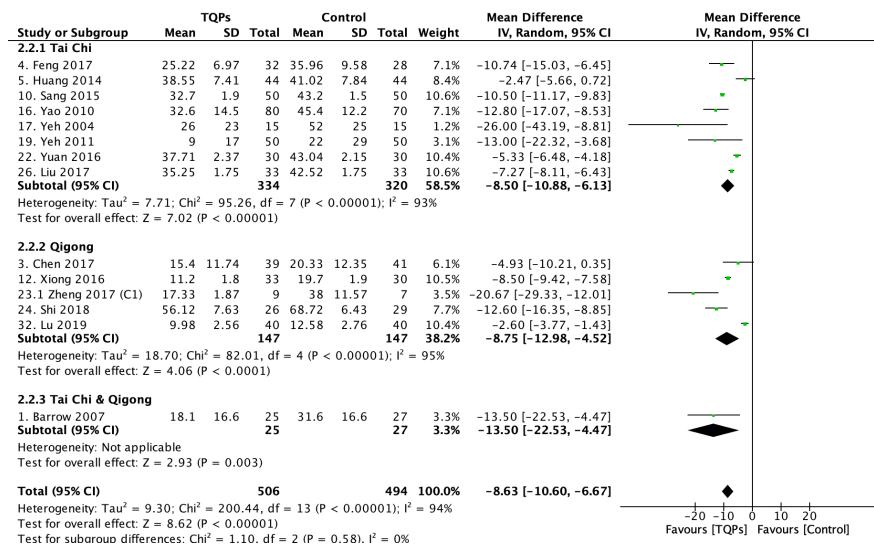
Supplementary Figures: Meta-analysis results

eFig. 2 MLHFQ total scores, TQPs plus RMs versus RMs (supplements to Fig. 2A)

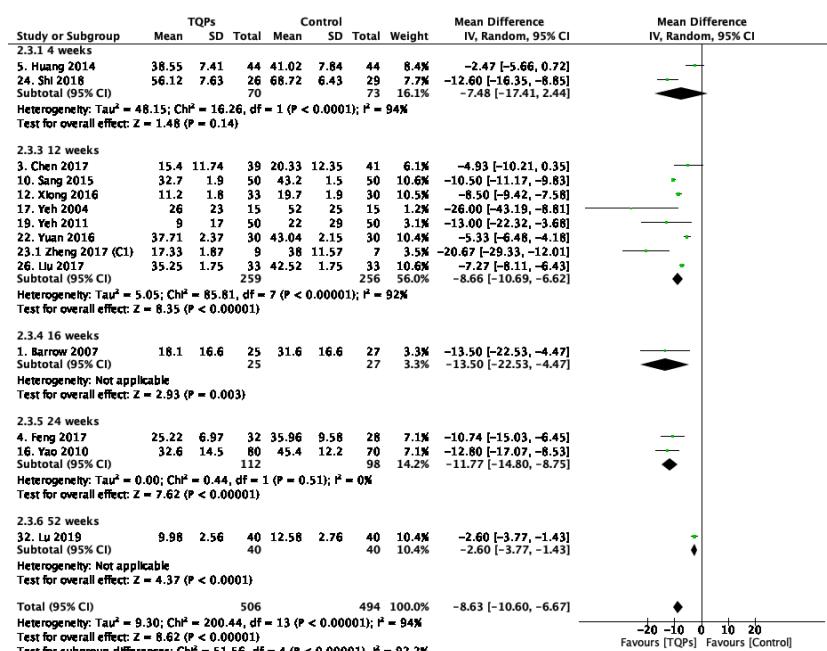
a. The overall pooled results



b. Subgroup analysis based on TQPs type

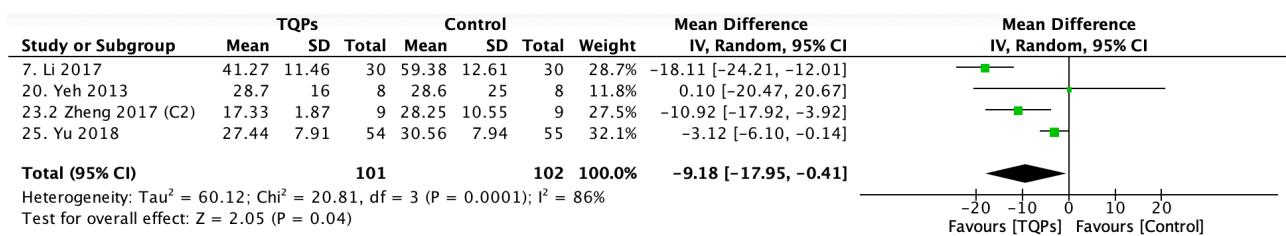


c. Subgroup analysis based on program durations

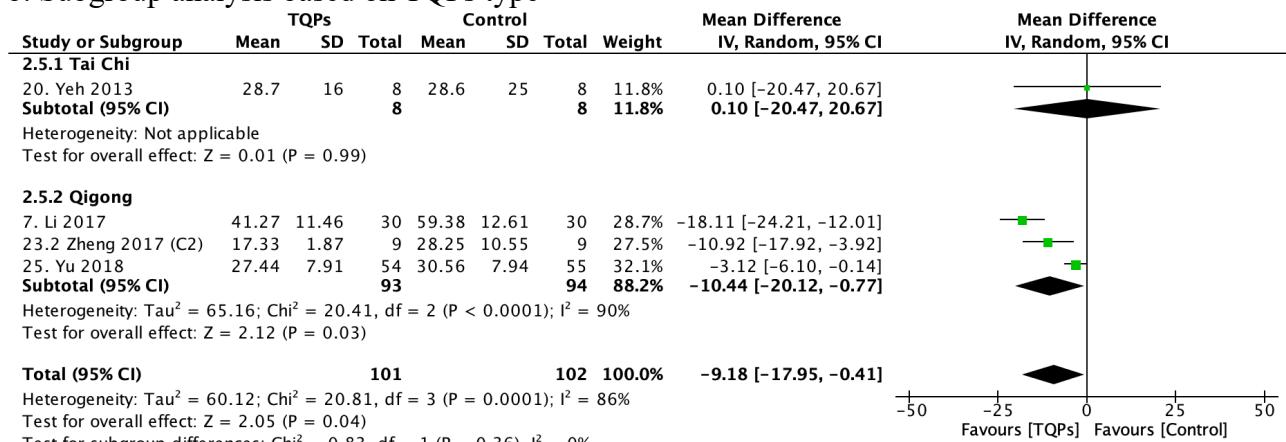


eFig. 3 MLHFQ total scores, TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 2B)

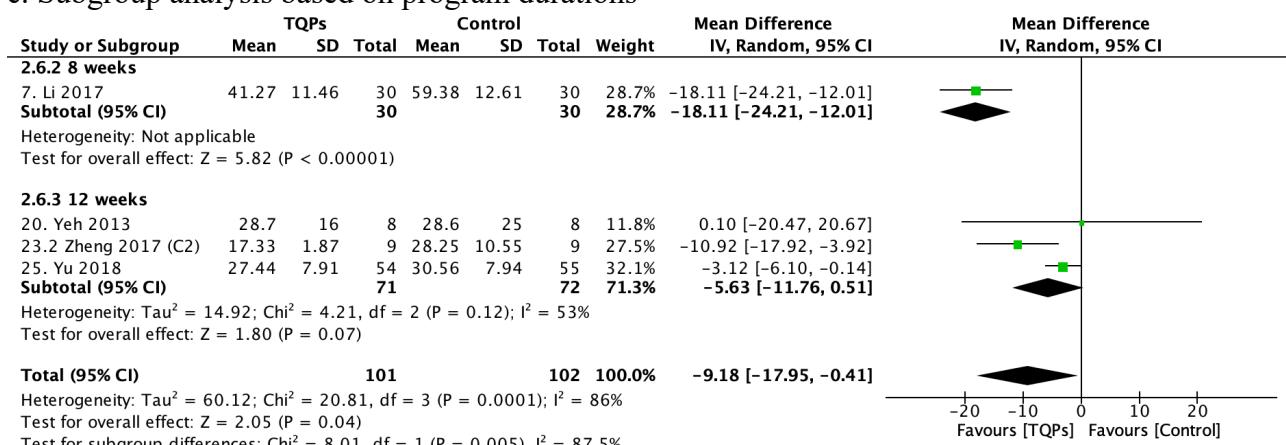
a. The overall pooled results



b. Subgroup analysis based on TQPs type

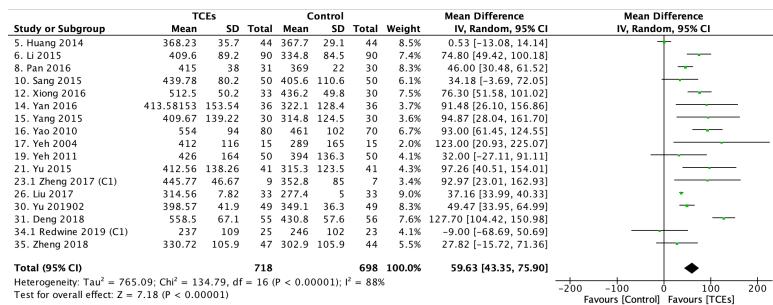


c. Subgroup analysis based on program durations

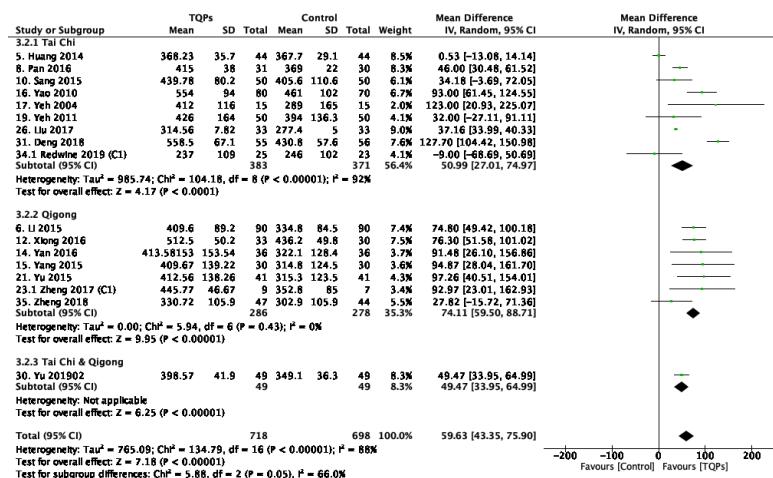


eFig. 4 6MWD (meters), TQPs plus RMs versus RMs (supplements to Fig. 3A)

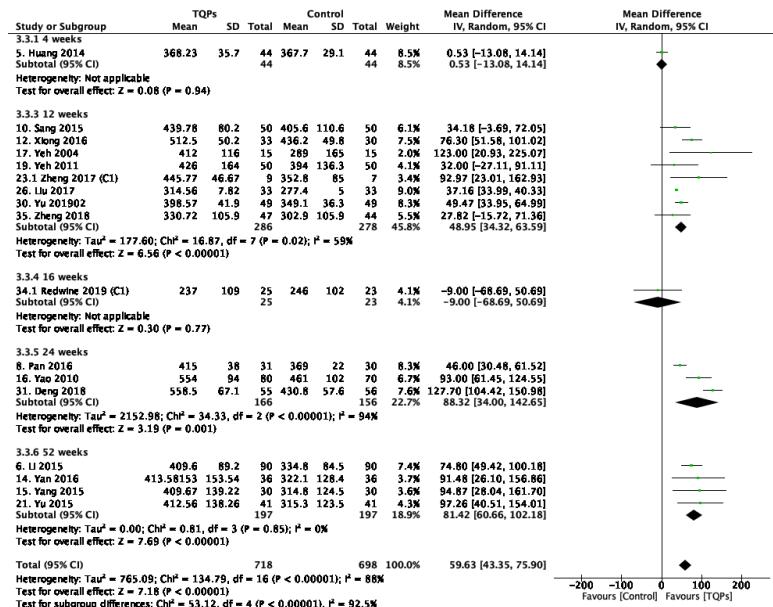
a. The overall pooled results



b. Subgroup analysis based on TQPs type

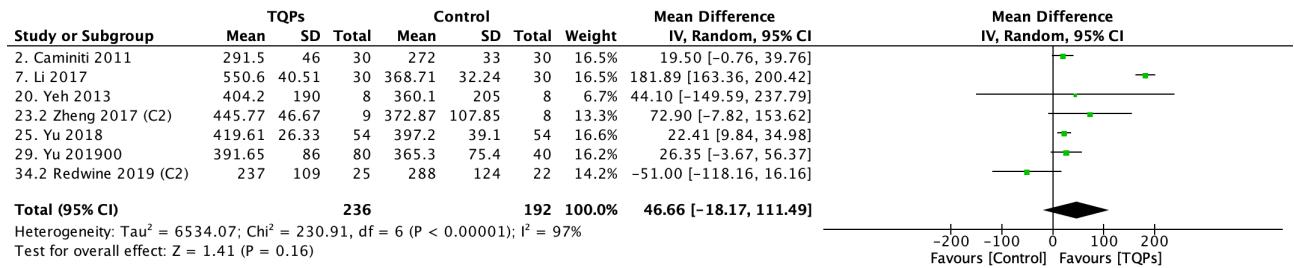


c. Subgroup analysis based on program durations

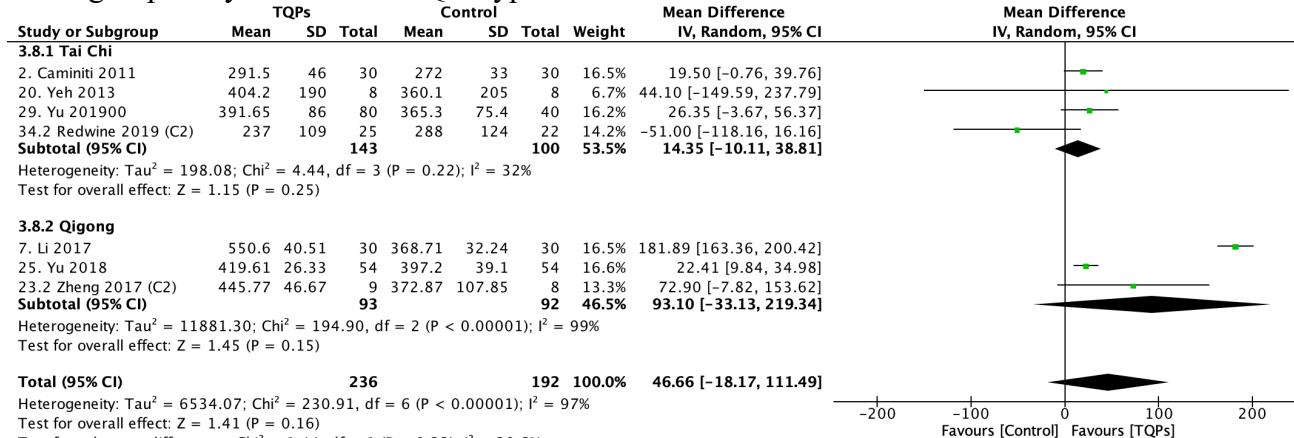


eFig. 5 6MWD (meters), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 3B)

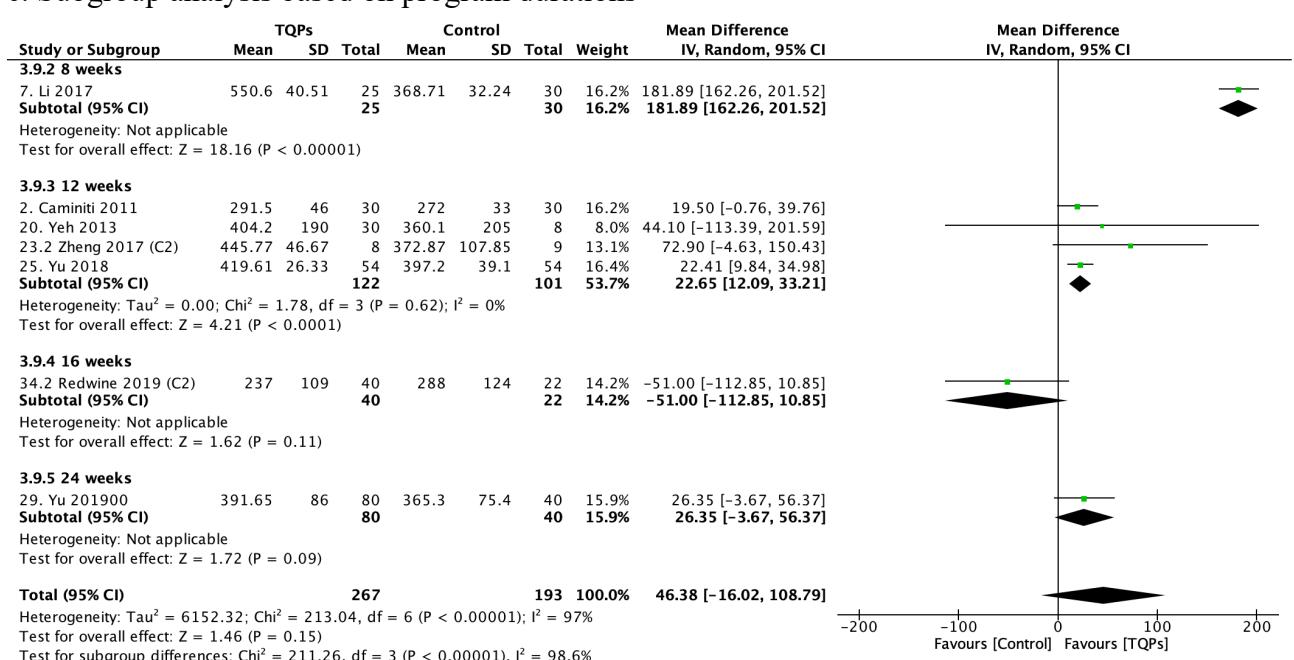
a. The overall pooled results



b. Subgroup analysis based on TQPs type

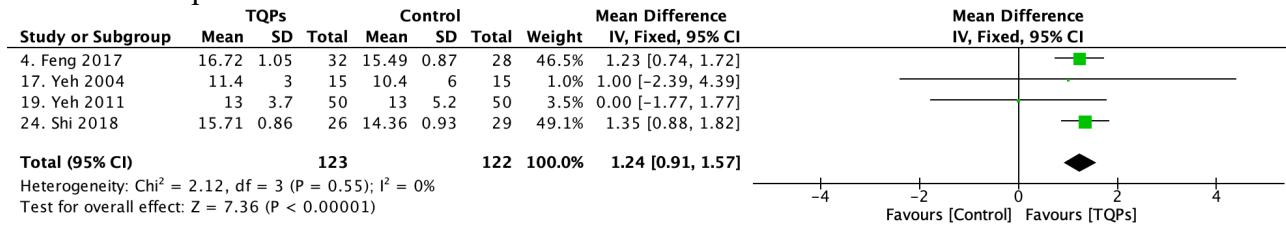


c. Subgroup analysis based on program durations

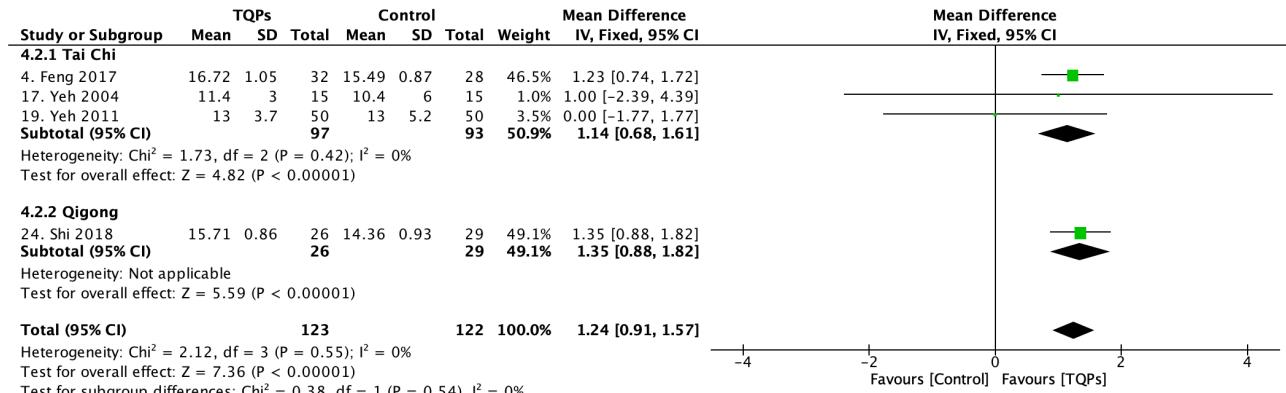


eFig. 6 Peak VO₂ (mL/kg/min), TQPs plus RMs versus RMs (supplements to Fig. 4A)

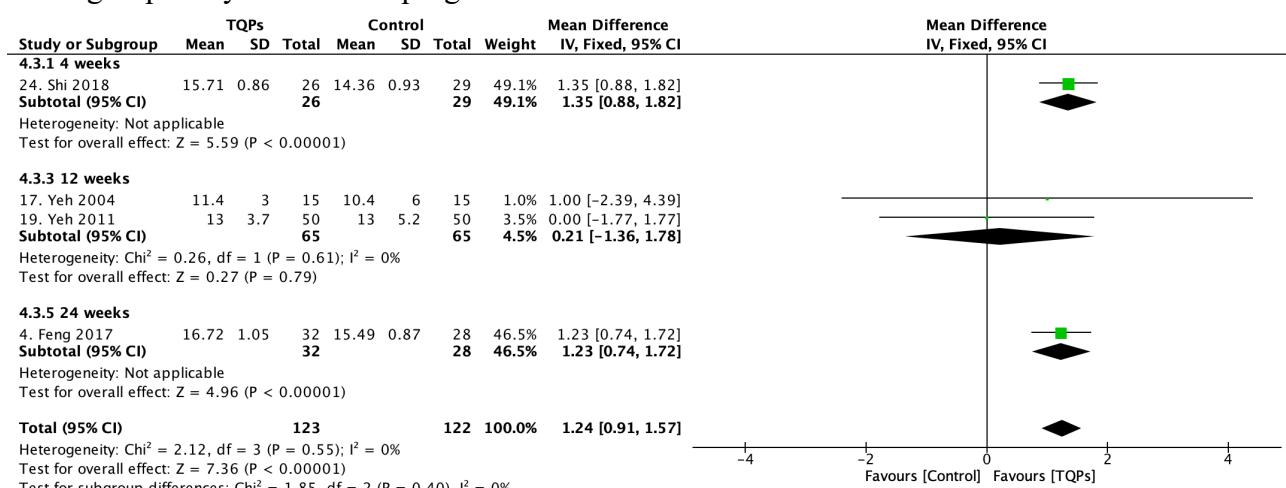
a. The overall pooled results



b. Subgroup analysis based on TQPs type

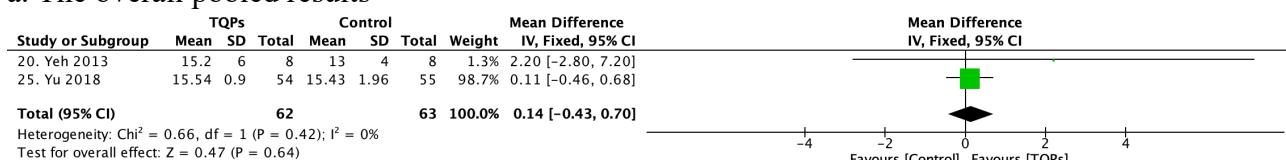


c. Subgroup analysis based on program durations



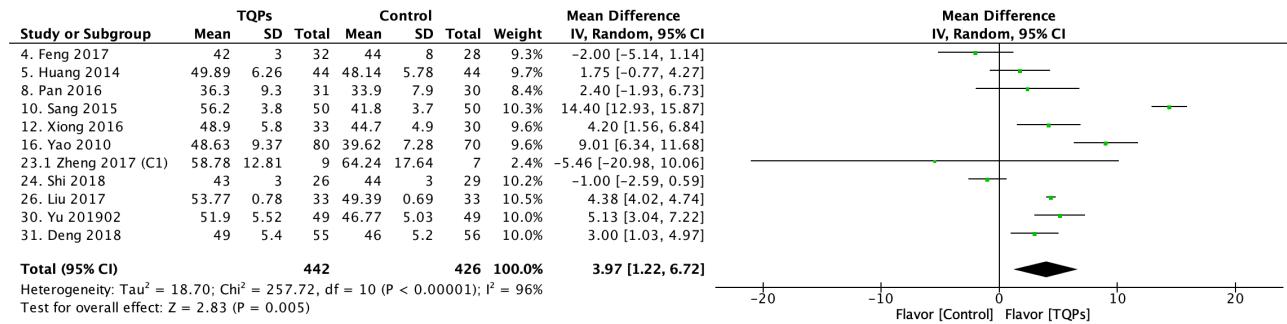
eFig. 7 Peak VO₂ (mL/kg/min), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 4B)

a. The overall pooled results

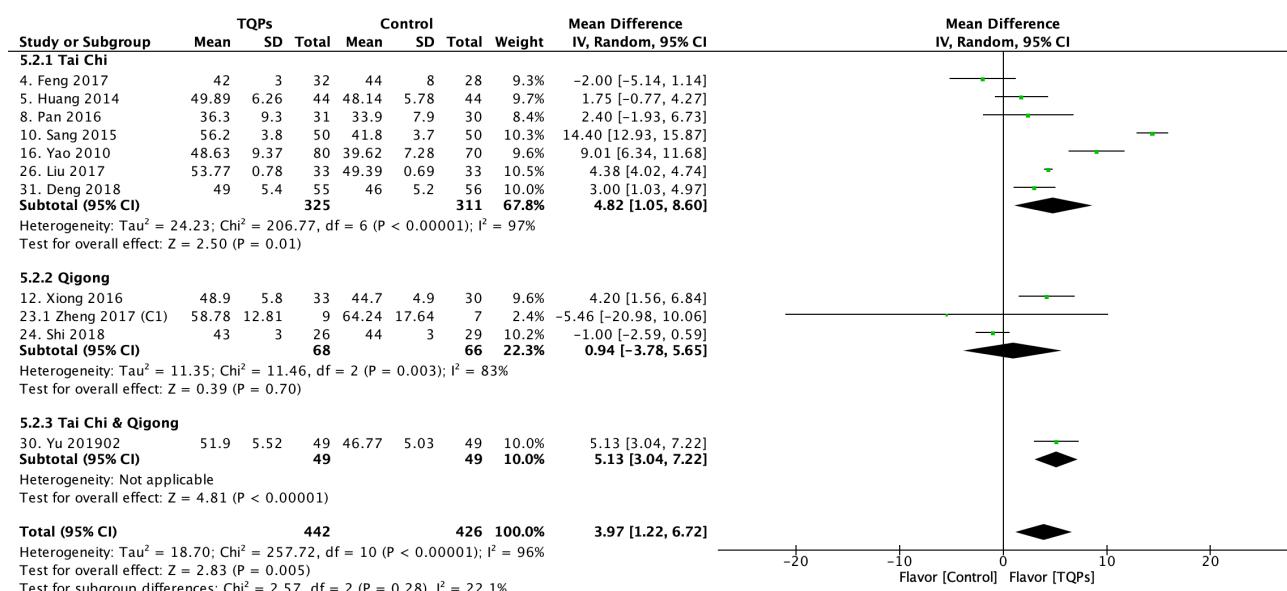


eFig. 8 LVEF (%), TQPs plus RMs versus RMs (supplements to Fig. 5A)

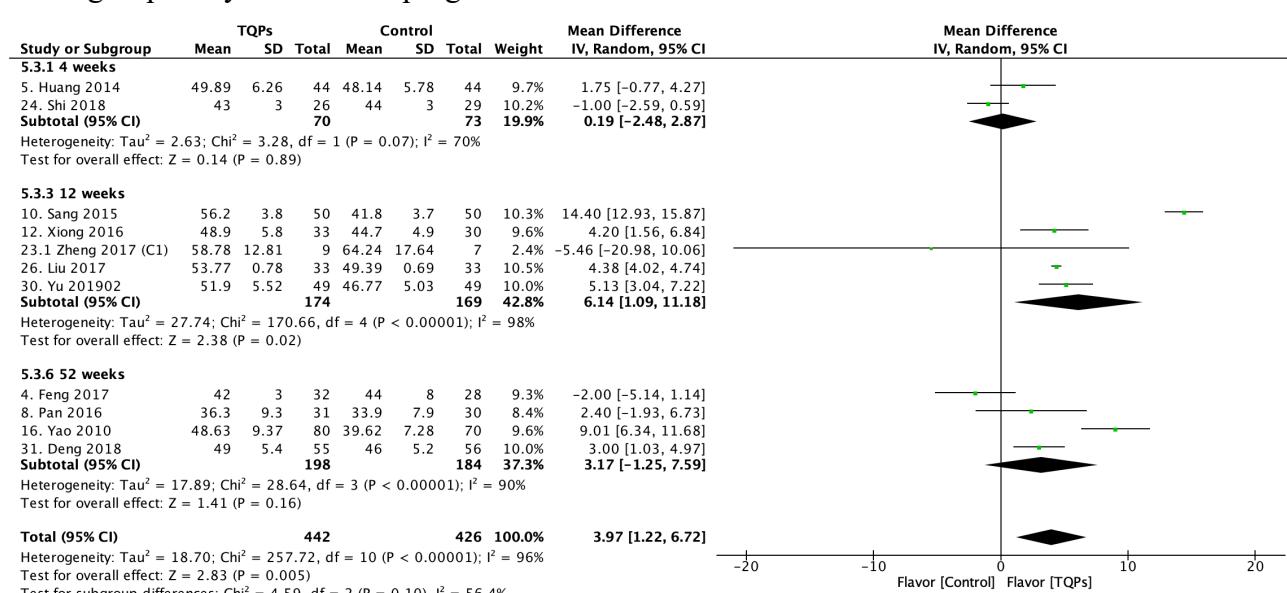
a. The overall pooled results



b. Subgroup analysis based on TQPs type

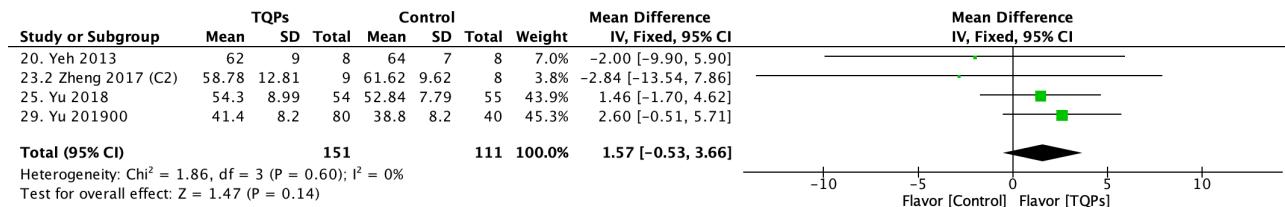


c. Subgroup analysis based on program durations

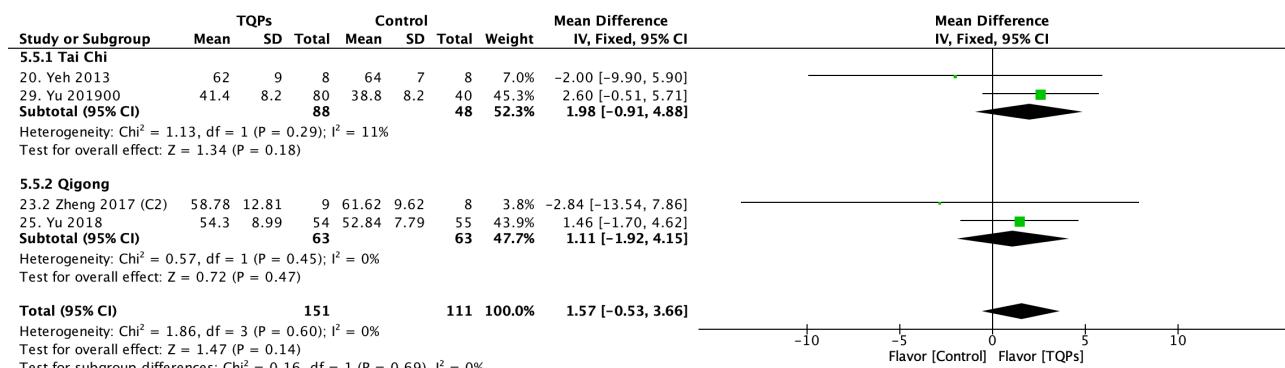


eFig. 9 LVEF (%), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 5B)

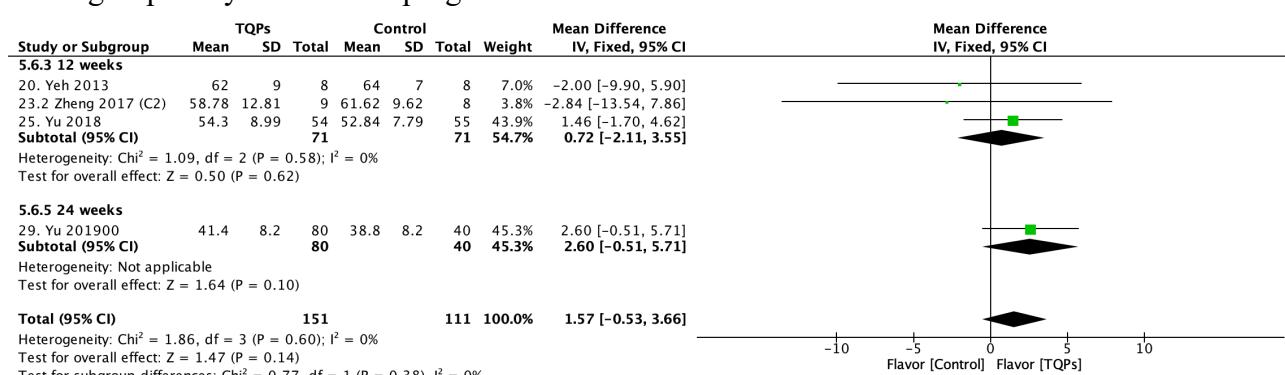
a. The overall pooled results



b. Subgroup analysis based on TQPs type

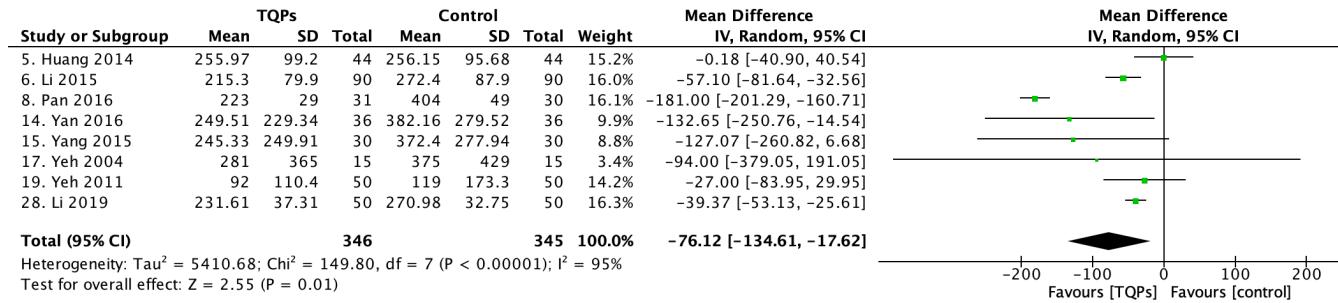


c. Subgroup analysis based on program durations

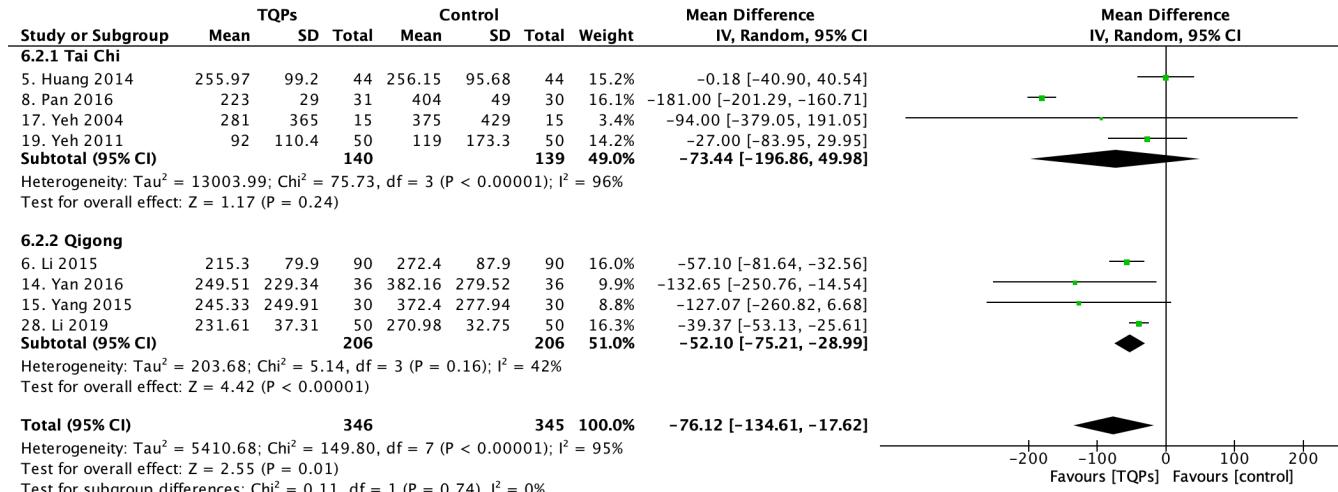


eFig. 10 BNP (pg/mL), TQPs plus RMs versus RMs (supplements to Fig. 6A)

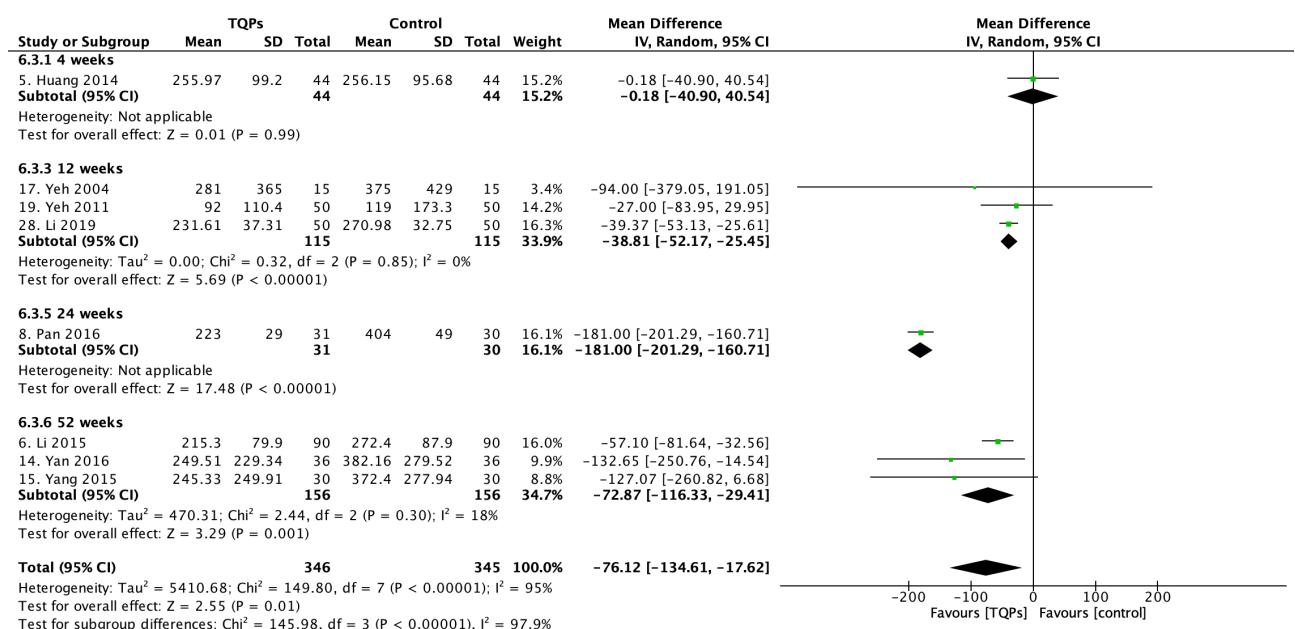
a. The overall pooled results



b. Subgroup analysis based on TQPs type

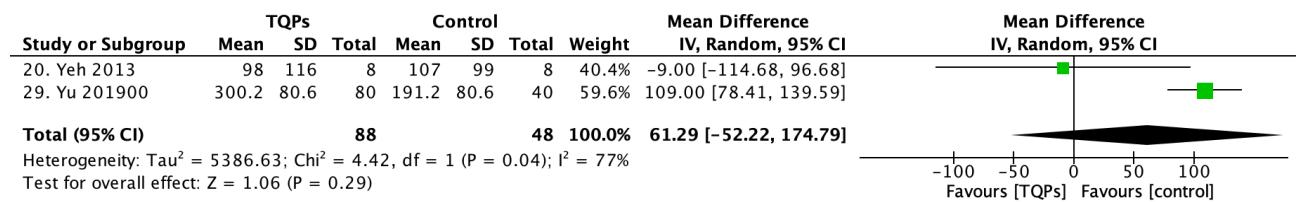


c. Subgroup analysis based on program durations



eFig. 11 BNP (pg/mL), TQPs plus RMs versus general exercises plus RMs (supplements to Fig. 6B)

a. The overall pooled results



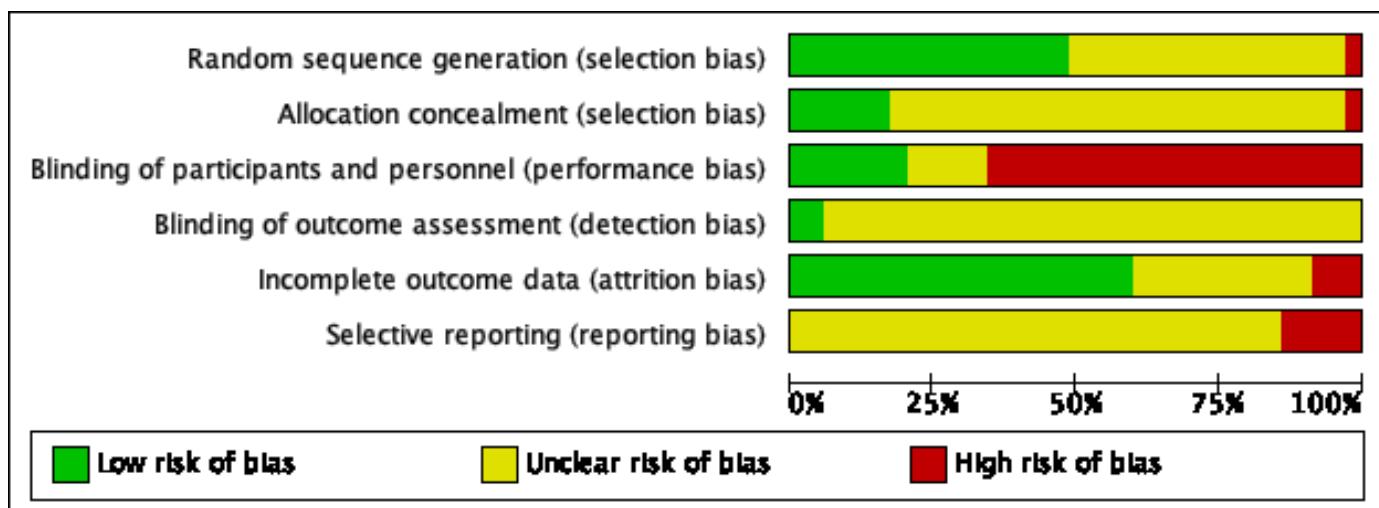
Supplementary Figures: Risk of bias and publication bias

eFig. 12 Risk of bias summary:

	1. Barlow 2007	2. Caminiti 2011	3. Chen 2017	4. Feng 2017	5. Huang 2014	6. Li 2015	7. Li 2017	8. Pan 2016	9. Redwine 2012	10. Song 2015	11. Wang 2011	12. Xiong 2016	13. Xiong 2017	14. Yan 2016	15. Yang 2015	16. Yan 2010	17. Yeh 2004	18. Yeh 2011	19. Yeh 2013	20. Yeh 2013	21. Yu 2015	22. Yuan 2016	23.1 Zheng 2017 (C1)	23.2 Zheng 2017 (C2)	24. Shi 2018	25. Yu 2018	26. Liu 2017	28. Li 2019	29. Yu 2019	31. Deng 2018	32. Lu 2019	33. Haggard 2017	34.1 Redwine 2019 (C1)	34.2 Redwine 2019 (C2)	35. Zheng 2018		
Random sequence generation (selection bias)	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Allocation concealment (selection bias)	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Blinding of participants and personnel (performance bias)	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Blinding of outcome assessment (detection bias)	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Incomplete outcome data (attrition bias)	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Selective reporting (reporting bias)	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	

Legend: The authors' judgments about each risk of bias item for each included study

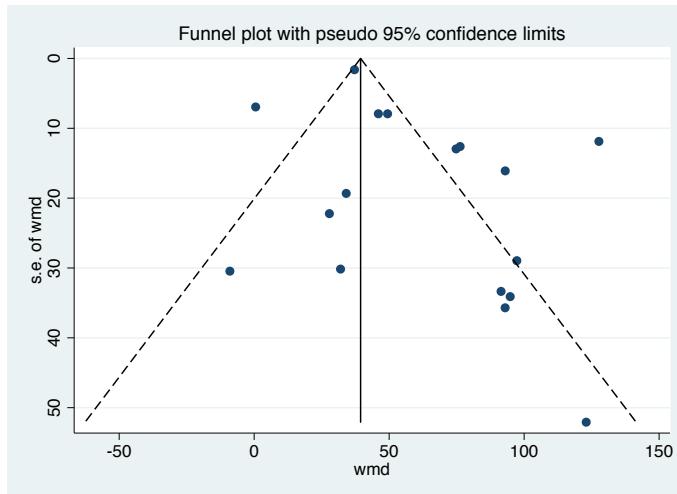
eFig. 13 Risk-of-bias graph



Legend: The authors' judgments regarding each risk-of-bias item presented as percentages across all included studies.

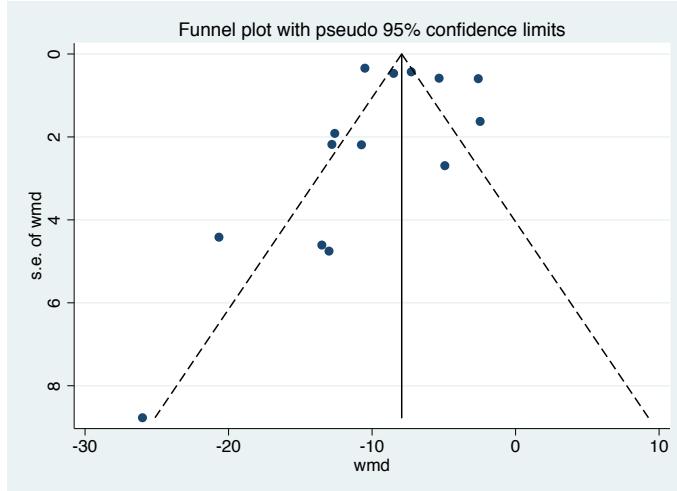
eFig. 14 Publication bias

a. 6MWD



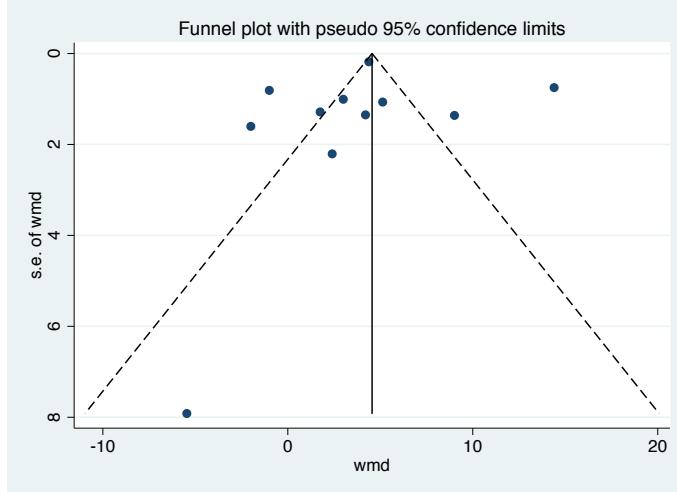
Legend: Egger's test: $P = 0.079$

b. MLHFQ



Legend: Egger's test: $P = 0.817$

c. LVEF (Egger's test: $P = 0.929$)



Legend: Egger's test: $P = 0.929$



PRISMA 2009 Checklist

Section/topic	#	Checklist item	Reported on page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	4-5
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	5
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	5
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	5-6
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	5
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	Supl
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	5-6
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	6-7
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	6-7

Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	7
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	7-8
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	7-8

Page 1 of 2

Section/topic	#	Checklist item	Reported on page #
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	8
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	8
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	9
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	9-10
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	12
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	10-12
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	Figure 1
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	12
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	12
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	13
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	15
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	16
FUNDING			

Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	17
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From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(6): e1000097. doi:10.1371/journal.pmed.1000097

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Page 2 of 2