Additional file 4: Systematic reviews (SRs) not selected for the evidence synthesis

STAGE 1 SELECTION PROCESS

The following SRs with a meta-analysis of RCTs were not selected for the evidence synthesis as other SRs with a meta-analysis were more recent and/or comprehensive.

Published in Chinese

Reason: other SRs with a meta-analysis of RCTs were more recent and/or comprehensive 2011

1. 李红果与徐志文, 太极拳治疗原发性高血压的系统评价. 文体用品与科技, 2011(07): 第 35-37 页.

2013 -2014

- 2. 晏利姣, 曹卉娟与郝玉芳, 太极拳改善乳腺癌患者生存质量随机对照试验的系统评价. 中国康复理论与实践, 2013(06): 第 592-597 页.
- 3. 赵媛等, 太极拳运动对老年人平衡功能和跌倒预防效果的 Meta 分析. 中国循证医学杂志, 2013. 13(3).
- 4. 拜争刚等, 太极拳预防老年抑郁症有效性的系统评价. 中国老年学杂志, 2014(10): 第 2716-2719 页.

- 5. 张明军与叶学球, 太极拳练习对中老年人血压影响的 Meta 分析. 福建体育科技, 2015(03): 第 46-49 页.
- 6. 王继红等, 太极拳对老年慢性阻塞性肺疾病患者肺功能和运动耐力影响的 Meta 分析. 中国组织工程研究, 2015(05): 第 815-820 页.
- 7. 田凌云等, 太极拳对稳定期慢性阻塞性肺疾病患者康复影响的 Meta 分析. 中国老年学杂志, 2015(05): 第 1286-1289 页.
- 8. 黄毛毛, 穆卫强与郑国华, 太极拳锻炼对老年人睡眠质量影响的系统评价. 康复学报, 2015(04): 第 56-61 页.
- 9. 李晓军等, 太极拳对老年人单足站立时间影响差异性的 Meta 分析. 康复学报, 2016. 26(5).
- 10. 潘元青等, 太极拳辅助康复治疗乳腺癌术后不良反应的系统评价. 兰州大学学报(医学版), 2016(03): 第 64-72 页.
- 11. 星超艺等, 不同运动方式对帕金森病相关指标的作用——系统综述. 中国运动医学杂志, 2016(09): 第 855-868+894 页.
- 12. 蔡璐与李晓, 太极拳治疗原发性高血压疗效 Meta 分析. 中医药临床杂志, 2016(10): 第 1425-1428 页.
- 13. 谢辉等, 太极拳治疗骨关节炎的系统评价和 Meta 分析. 中华中医药杂志, 2016(05): 第 1863-1867 页.

- 14. 邵威等, 太极拳运动对稳定期慢性阻塞性肺疾病患者肺功能康复效果的 meta 分析. 中国康复医学杂志, 2016. 31(5).
- 15. 张业廷等. 太极拳运动对Ⅱ型糖尿病患者的影响--Meta 分析. in 2015 全国体育保健康复学术会议. 2016. 苏州.

2017 - 2018

- 16. 刘永进等, 太极拳锻炼对 2 型糖尿病患者糖脂代谢和生活质量影响的系统评价. 康复学报, 2017(04): 第 55-59+64 页.
- 17. 刘米娜与李学斌, 太极延缓社区中老年人认知功能衰退有效性的系统评价. 社会建设, 2017(04): 第 42-56 页.
- 18. 唐青等, 太极拳在 2 型糖尿病患者中应用效果的 Meta 分析. 现代预防医学, 2017(14): 第 2516-2521 页.
- 19. 张业廷与李慧军, 太极拳运动对中老年原发性高血压患者的影响——Meta 分析. 运动精品, 2017. 36(6).
- 20. 李翔等, 太极拳治疗下腰痛临床疗效的 Meta 分析. 康复学报, 2017(04): 第 60-64 页.
- 21. 王春艳, 传统体育运动对糖尿病康复作用的系统评价及 Meta 分析, 2017, 山东师范大学.
- 22. 王齐, 太极拳治疗 2 型糖尿病随机对照实验的系统评价与 meta 分析, 2017, 北京体育大学.
- 23. 王晨等, 短期的太极拳结合常规康复训练治疗脑卒中偏瘫患者平衡能力、运动功能的 meta 分析. 中国康复医学杂志, 2018(11): 第 1322-1328 页.
- 24. 曾令烽等, 传统运动疗法干预对膝骨关节炎患者疼痛改善及关节功能影响的系统评价. 中华中医药杂志, 2018(05): 第 2132-2139 页.
- 25. 邱亚娟等, 太极拳对老年慢性阻塞性肺病患者肺功能和体力状况的影响. 中国老年学杂志, 2018(01): 第 151-153 页.

2019 - 2020

- 26. 张永鹏等, 太极拳对原发性高血压患者降压效果的系统评价与 Meta 分析. 体育科研, 2019(01): 第 96-104 页.
- 27. 王晨与周立峰, 太极拳对慢性阻塞性肺疾病患者肺功能、运动能力和生活质量影响的 meta 分析. 现代医药卫生, 2020. 36(22): 第 3651-3656 页.
- 28. 陈慧娟, 太极拳对腰椎间盘突出影响的 Meta 分析. 龙岩学院学报, 2020. 38(02): 第 112-117 页.
- 29. 宋咪等, 太极对老年人跌倒预防效果的 Meta 分析. 海南医学院学报, 2020. 26(07): 第 545-551 页.

Published in English

Reason: other SRs with a meta-analysis of RCTs were more recent and/or comprehensive 2010 - 2012

- 1. Lee, M.S., T.Y. Choi, and E. Ernst, *Tai chi for breast cancer patients: a systematic review.*Breast Cancer Res Treat, 2010. **120**(2): p. 309-16.
- 2. Lee, M.S., et al., *Tai chi for lowering resting blood pressure in the elderly: a systematic review.* J Eval Clin Pract, 2010. **16**(4): p. 818-24.
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- 4. Escalante, Y., A. Garcia-Hermoso, and J.M. Saavedra, *Effects of exercise on functional aerobic capacity in lower limb osteoarthritis: a systematic review.* J Sci Med Sport, 2011. **14**(3): p. 190-8.
- 5. Kang, J.W., et al., *T'ai chi for the treatment of osteoarthritis: a systematic review and meta-analysis.* BMJ Open, 2011. **1**(1): p. e000035.
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- 7. Leung, D.P.K., et al., *Tai Chi as an Intervention to Improve Balance and Reduce Falls in Older Adults: A Systematic and Meta-analytical Review.* Alternative Therapies in Health and Medicine, 2011. **17**(1): p. 40-48.
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- 11. Lauche, R., et al., A systematic review and meta-analysis of Tai Chi for osteoarthritis of the knee. Complement Ther Med, 2013. **21**(4): p. 396-406.
- 12. Pan, L., Y. Guo, and J. Yan, Effects of Tai Chi training on exercise capacity and quality of life in patients with chronic heart failure: A meta-analysis. European Journal of Heart Failure, 2013. **15**(3): p. 316-323.
- 13. Raman, G., et al., *Tai Chi Improves Sleep Quality in Healthy Adults and Patients with Chronic Conditions: A Systematic Review and Meta-analysis.* J Sleep Disord Ther, 2013. **2**(6).
- 14. Wang, J., et al., *Tai Chi for Essential Hypertension*. Evidence-Based Complementary and Alternative Medicine, 2013.
- 15. Wu, Y., et al., *The effects of Tai Chi exercise on cognitive function in older adults: A meta-analysis.* Journal of Sport and Health Science, 2013. **2**(4): p. 193-203.
- 16. Yan, J.H., et al., Efficacy of Tai Chi on pain, stiffness and function in patients with osteoarthritis: a meta-analysis. PLoS One, 2013. **8**(4): p. e61672.
- 17. Yan, J.H., et al., *Effects of Tai Chi in patients with chronic obstructive pulmonary disease:* preliminary evidence. PLoS One, 2013. **8**(4): p. e61806.
- 18. Wu, W.B., et al., Effects of Tai Chi on exercise capacity and health-related quality of life in patients with chronic obstructive pulmonary disease: a systematic review and meta-analysis. International Journal of Chronic Obstructive Pulmonary Disease, 2014. 9: p. 1253-1263.
- 19. Yan, J.H., et al., *Lack of efficacy of Tai Chi in improving quality of life in breast cancer survivors: a systematic review and meta-analysis.* Asian Pac J Cancer Prev, 2014. **15**(8): p. 3715-20.
- 20. Yang, Y., et al., *Tai Chi for improvement of motor function, balance and gait in Parkinson's disease: a systematic review and meta-analysis.* PLoS One, 2014. **9**(7): p. e102942.
- Zeng, Y., et al., *Health benefits of qigong or tai chi for cancer patients: A systematic review and meta-analyses.* Complementary Therapies in Medicine, 2014. **22**(1): p. 173-186.

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- 23. Du, S.Z., et al., *Taichi exercise for self-rated sleep quality in older people: A systematic review and meta-analysis.* International Journal of Nursing Studies, 2015. **52**(1): p. 368-379.
- 24. Huang, Y.J. and X.M. Liu, *Improvement of balance control ability and flexibility in the elderly Tai Chi Chuan (TCC) practitioners: A systematic review and meta-analysis.* Archives of Gerontology and Geriatrics, 2015. **60**(2): p. 233-238.
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- 26. Liu, X., et al., A systematic review and meta-analysis of the effects of Qigong and Tai Chi for depressive symptoms. Complement Ther Med, 2015. **23**(4): p. 516-34.
- 27. Pan, Y.Q., et al., *Tai Chi Chuan Exercise for Patients with Breast Cancer: A Systematic Review and Meta-Analysis.* Evidence-Based Complementary and Alternative Medicine, 2015.
- 28. Zheng, G.H., et al., *Tai Chi and the Protection of Cognitive Ability A Systematic Review of Prospective Studies in Healthy Adults*. American Journal of Preventive Medicine, 2015. **49**(1): p. 89-97.
- 29. Zhou, J., et al., A Meta-Analysis on the Efficacy of Tai Chi in Patients with Parkinson's Disease between 2008 and 2014. Evid Based Complement Alternat Med, 2015. **2015**: p. 593263.
- 30. Chang, W.D., et al., *The Effects of Tai Chi Chuan on Improving Mind-Body Health for Knee Osteoarthritis Patients: A Systematic Review and Meta-Analysis.* Evidence-Based Complementary and Alternative Medicine, 2016.
- 31. Hu, Y.N., et al., Effect of Tai Chi Exercise on Fall Prevention in Older Adults: Systematic Review and Meta-analysis of Randomized Controlled Trials. International Journal of Gerontology, 2016. **10**(3): p. 131-136.
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- 33. Sun, Z., et al., Effects of tai chi exercise on bone health in perimenopausal and postmenopausal women: a systematic review and meta-analysis. Osteoporos Int, 2016. **27**(10): p. 2901-11.
- 34. Zhao, Y. and Y. Wang, *Tai Chi as an intervention to reduce falls and improve balance function in the elderly: a meta-analysis of randomized controlled trials.* Chin Nurs Res, 2016(3): p. 28-33.

- 35. Li, Y.F., et al., The effect of Tai Chi exercise on motor function and sleep quality in patients with stroke: A meta-analysis. International Journal of Nursing Sciences, 2017. **4**(3): p. 314-321
- 36. Liu, F.H. and S. Wang, Effect of Tai Chi on bone mineral density in postmenopausal women: A systematic review and meta-analysis of randomized control trials. Journal of the Chinese Medical Association, 2017. **80**(12): p. 790-795.
- 37. Lomas-Vega, R., et al., *Tai Chi for Risk of Falls. A Meta-analysis.* J Am Geriatr Soc, 2017. **65**(9): p. 2037-2043.
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- 41. Gendron, L.M., et al., *Active mind-body movement therapies as an adjunct to or in comparison with pulmonary rehabilitation for people with chronic obstructive pulmonary disease.* Cochrane Database of Systematic Reviews, 2018(10).
- 42. Li, G.Y., et al., Effects of Tai Chi on balance and gait in stroke survivors: A systematic metaanalysis of randomized controlled trials. J Rehabil Med, 2018. **50**(7): p. 582-588.
- 43. Liu, T., et al., Effects of Tai Chi-based cardiac rehabilitation on aerobic endurance, psychosocial well-being, and cardiovascular risk reduction among patients with coronary heart disease: A systematic review and meta-analysis. European Journal of Cardiovascular Nursing, 2018. **17**(4): p. 368-383.
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2019 - 2020

- 47. Liu, H.H., et al., Effects of Tai Chi Exercise on Reducing Falls and Improving Balance Performance in Parkinson's Disease: A Meta-Analysis. Parkinsons Dis, 2019. **2019**: p. 9626934.
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- 49. Liu, D.C., et al., The Efficacy of Tai Chi and Qigong Exercises on Blood Pressure and Blood Levels of Nitric Oxide and Endothelin-1 in Patients with Essential Hypertension: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Evidence-Based Complementary and Alternative Medicine, 2020. **2020**.
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STAGE 2 SELECTION PROCESS

The following SRs with overlapping populations and/or outcomes were not selected for the evidence synthesis as another SR was more comprehensive and/or of higher quality.

Published in Chinese

Reason: the SR with a meta-analysis selected for evidence synthesis was more comprehensive and/or higher quality 2016

- 1. 李淑珍等, 太极拳运动对脑卒中患者平衡功能影响的系统评价. 康复学报, 2016(02): 第 57-62 页.
- 2. 苗雨, 太极拳对脑卒中后患者平衡功能效果的 Meta 分析. 天津护理, 2016(06): 第 501-504 页.

- 3. 张嘉祺等, 太极拳训练对精神分裂症患者阴性症状和活动参与的 Meta 分析. 中国循证医学杂志, 2017(02): 第 206-212 页.
- 4. 张建国, 唐纯志与孔令朔, 太极拳运动对老年人认知功能影响的系统评价与 Meta 分析. 中医杂志, 2017(17): 第 1473-1477 页.
- 5. 魏洪悦等, 太极拳对心力衰竭患者作用效果的系统评价. 中国循证医学杂志, 2017(06): 第677-684页.
- 6. 金成吉, 张自云与解超, 太极拳对中老年原发性高血压患者血压水平影响的 Meta 分析. 现代预防医学, 2018(18): 第 3446-3451 页.
- 7. 孙凯丽, 社区轻度认知损害老人中医护理干预研究, 2018, 湖北中医药大学.
- 8. 李建超等, 太极拳对心力衰竭患者心功能及生活质量影响的 meta 分析. 慢性病学杂志, 2018(04): 第 369-374 页.
- 9. 陈梓, 喻惠丹与张凝凝, 太极拳运动对冠心病患者生理指标及生活质量影响的系统评价. 解放军护理杂志, 2018(01): 第 8-14 页.

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- 10. 梁龙等, 太极拳锻炼防治骨质疏松症效果的 Meta 分析. 中国骨质疏松杂志, 2019(09): 第 1280-1289+1322 页.
- 11. 曾令烽等, 传统太极功法干预对改善骨密度流失疗效及安全性的系统评价. 中国组织工程研究, 2019(27): 第 4420-4428 页.
- 12. 何明星等, 太极拳训练对帕金森患者平衡功能影响的 Meta 分析. 世界最新医学信息文摘, 2019(28): 第 6-10 页.
- 13. 荀长月, 太极拳对糖尿病防治效果的 Meta 分析, 2019, 长江大学.
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Published in English

Reason: the SR with a meta-analysis selected for evidence synthesis was more comprehensive and/or higher quality

2013 - 2014

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- 12. Lian, Z.Y., et al., Effects of Tai chi on adults with essential hypertension in China: A systematic review and meta-analysis. European Journal of Integrative Medicine, 2017. **12**: p. 153-162.
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- 15. Chao, M.Y., et al., *The Effects of Tai Chi on Type 2 Diabetes Mellitus: A Meta-Analysis.* Journal of Diabetes Research, 2018.
- 16. Hill, K.D., et al., What works in falls prevention in Asia: a systematic review and metaanalysis of randomized controlled trials. BMC Geriatr, 2018. **18**(1): p. 3.
- 17. Winser, S.J., et al., *Does Tai Chi improve balance and reduce falls incidence in neurological disorders? A systematic review and meta-analysis.* Clinical Rehabilitation, 2018. **32**(9): p. 1157-1168.

- 18. Sherrington, C., et al., *Exercise for preventing falls in older people living in the community.* Cochrane Database of Systematic Reviews, 2019(1).
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STAGE 3 SELECTION PROCESS

The following narrative SRs with no meta-analysis were not selected as the populations and outcomes were reported in a SR with a meta-analysis

Reason: SR with no meta-analysis and PICO covered by SR with a meta-analysis (Chinese language databases)

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