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《运动与健康科学》(英文版) » 2013, Vol. 2 » Issue (4): 209-214 DOI: <http://dx.doi.org/10.1016/j.jshs.2013.01.001>

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力量和太极训练对改善膝骨关节炎病人运动能力及症状的作用

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Effects of resistance and Tai Ji training on mobility and symptoms in knee osteoarthritis patients

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摘要 背景: 至今还没有相关研究曾比较过力量和太极训练对膝骨关节炎(OA)症状缓解的作用。本研究旨在评价为期10周的太极训练和抗阻力训练干预对改善老年OA病人症状和运动的作用。方法: 31名老年病人(60-85岁)随机分为3组: 10周太极组($n = 12$)、抗阻力训练组($n = 13$)和对照组($n = 6$)。所有参与者完成了西安大略大学和麦克马斯特大学(WOMAC)膝骨关节炎的指数功能评分, 并在为期10周的干预前后进行了3项身体活动能力测试(6 min步行、计时起立行走、计时上下楼梯)。结果: 力量训练组成员的计时起立行走测试成绩($p = 0.001$)、WOMAC疼痛分项分数($p = 0.006$)、WOMAC僵硬分项分数($p < 0.001$)、WOMAC身体机能分项分数($p = 0.011$)均显著提高。太极组成员的计时起立行走测试成绩显著提高($p < 0.001$), 但WOMAC评分无显著变化。结论: 力量训练能有效改善膝关节OA病人的运动和症状, 太极训练仅能改善运动能力, 但不能改善OA症状。

关键词: 膝 骨关节炎 抗阻力训练 太极

Abstract: *Background:* No studies have compared effectiveness of resistance training and Tai Ji exercise on relieving symptoms of knee osteoarthritis (OA). The purpose of the study was to evaluate effects of a 10-week Tai Ji and resistance training intervention on improving OA symptoms and mobility in seniors with knee OA.

Methods: Thirty-one seniors (60-85 years) were randomly assigned to a Tai Ji program ($n = 12$), a resistance training program ($n = 13$), and a control group ($n = 6$). All participants completed the Western Ontario and MacMaster (WOMAC) Osteoarthritis Index and performed three physical performance tests (6-min walk, timed-up-and-go, and timed stair climb and descent) before and after the 10-week intervention.

Results: The participants in the resistance training group significantly improved on the timed-up-and-go test ($p = 0.001$), the WOMAC pain subscore ($p = 0.006$), WOMAC stiffness sub-score ($p < 0.001$), and WOMAC physical function sub-score ($p = 0.011$). The Tai Ji group significantly improved on the timed-up-and-go test ($p < 0.001$), but not on the WOMAC scores.

Conclusion: Resistance training was effective for improving mobility and improving the symptoms of knee OA. Tai Ji was also effective for improving mobility, but did not improve knee OA symptoms.

Significant Points:

- The resistance training group showed significant improvement on the timed up-and-go test.
- The resistance training group showed significant improvement on the WOMAC pain sub-score, WOMAC stiffness sub-score, and WOMAC physical function sub-score of the knee OA patients.
- The Tai Ji group showed significant improvement on the timed up-and-go test.

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收稿日期: 2012-08-24; 出版日期: 2012-12-08

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引用本文:

Michael Wortley, Songning Zhang, Maxime Paquette等. 力量和太极训练对改善膝骨关节炎病人运动能力及症状的作用[J]. 《运动与健康科学》(英文版), 2013, 2(4) 209-214.

Michael Wortley, Songning Zhang, Maxime Paquette et al. Effects of resistance and Tai Ji training on mobility and symptoms in knee osteoarthritis patients[J]. Journal of Sport and Health Science, 2013, 2(4): 209-214.

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