Chinese exercises may improve cardiovascular health

American Heart Association Rapid Access Journal Report

March 09, 2016 | Categories: Heart News (news?c=856)

Study Highlight

- Traditional Chinese exercises such as Tai Chi may lower blood pressure, improve cholesterol levels and quality of life and depression in patients living with heart disease and stroke.

Embargoed until 3 p.m. CT / 4 p.m. ET Wednesday, March 9, 2016

DALLAS, March 9, 2016 —Traditional Chinese exercises such as Tai Chi may improve the health and well-being of those living with heart disease, high blood pressure or stroke, according to new research published in the Journal of the American Heart Association.

“Traditional Chinese exercises are a low-risk, promising intervention that could be helpful in improving quality of life in patients with cardiovascular diseases,” said Yu Liu, Ph.D., study co-author, and dean of the School of Kinesiology, at Shanghai University of Sport in China. “But the physical and psychological benefits to these patients of this increasingly popular form of exercise must be determined based on scientific evidence.”

Chen Pei-Jie, Ph.D., the study’s lead author and president of Shanghai University of Sport in China and his team reviewed 35 studies, including 2,249 participants from 10 countries.

They found, among participants with cardiovascular disease, Chinese exercises helped reduce systolic blood pressure (http://www.heart.org/HEARTORG/Conditions/Cholesterol/AboutCholesterol/Good-vs-Bad-Cholesterol_UCM_305561_Article.jsp#Vs9AZPkrLdc) by more than 9.12 mm Hg and diastolic blood pressure (http://www.heart.org/HEARTORG/Conditions/Cholesterol/AboutCholesterol/Good-vs-Bad-Cholesterol_UCM_305561_Article.jsp#Vs9AZPkrLdc) by more than 5 mm Hg on average.

They also found small, but statistically significant drops in the levels of bad cholesterol (http://www.heart.org/HEARTORG/Conditions/Cholesterol/AboutCholesterol/Good-vs-Bad-Cholesterol_UCM_305561_Article.jsp#Vs9AZPkrLdc) and triglyceride (http://www.heart.org/HEARTORG/Conditions/Cholesterol/AboutCholesterol/Good-vs-Bad-Cholesterol_UCM_305561_Article.jsp#Vs9AZPkrLdc)(low-density lipoprotein) and triglyceride (http://www.heart.org/HEARTORG/Conditions/Cholesterol/AboutCholesterol/Good-vs-Bad-Cholesterol_UCM_305561_Article.jsp#Vs9AZPkrLdc) levels. Chinese exercises also seemed to improve quality of life and reduce depression in patients with cardiovascular disease. However, traditional Chinese exercises did not significantly improve participant’s heart rate, aerobic fitness level or scores on a general health questionnaire.

The review only analyzed studies which randomly assigned participants to groups performing traditional Chinese exercises (most commonly Tai Chi, Qigong and Baduanjin), engaging in another form of exercise or making no change in activity level.

- note that although their review provided a good overview of the impact of traditional Chinese exercises on cardiovascular risk factors, several limitations: inclusion criteria varied across studies; participants were followed for a year or less; traditional Chinese exercises take many different forms and most results were evaluated by study leaders who knew which group participants had been assigned to, potentially biasing results.

Liu and his team have been studying the benefits of traditional Chinese exercises on a range of diseases for more than 5 years. They plan to conduct new randomized controlled trials to confirm the effect of different types of traditional Chinese exercises on chronic diseases.

Other co-authors are Xue-Qiang Wang, Ph.D.; Xin Li, M.Sc.; Bing-Lin Chen, M.Sc.; Yi Zhu, Ph.D.; Yu-Jie Yang, M.Sc.; and Zhan-Bin Niu, M.Sc. Author disclosures and funding information are on the manuscript.

Additional Resources:

- Heart graphic, blood pressure cuff image, and cholesterol image are located in the right column of this release link http://newsroom.heart.org/news/chinese-exercises-may-improve-cardiovascular-health?preview=4c166d516384e2e142b0e162da9d3f6 (http://newsroom.heart.org/news/chinese-exercises-may-improve-cardiovascular-health?preview=4c166d516384e2e142b0e162da9d3f6)
- After March 9 view the manuscript (http://jaha.ahajournals.org/content/5/3/e002562.full) online.
- What is Cardiovascular Disease? (http://www.heart.org/HEARTORG/Caregiver/Resources/WhatsCardiovascularDisease/What-is-Cardiovascular-Disease_UCM_301852_Article.jsp#.VgjiOvkrKUm)
- American Heart Association Recommendations for Physical Activity in Adults (http://www.heart.org/HEARTORG/HealthyLiving/PhysicalActivity/FitnessBasics/American-Heart-Association-Recommendations-for-Physical-Activity-in-Adults_UCM_307976_Article.jsp#.VqUZZvkrlKc)
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For Media Inquiries and AHA/ASA Spokesperson Perspective: (214) 706-1173

Akeem Ranmal: (214) 706-1755; akeem.ranmal@heart.org

Julie Del Barto (national broadcast): (214) 706-1330; julie.delbarto@heart.org

For Public Inquiries: (800)-AHA-USA1 (242-8721)

heart.org and strokeassociation.org

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