

Using Tai Chi to Build Strength

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By [Jane E. Brody](#) | Sept. 10, 2018

Watching a group of people doing tai chi, an exercise often called “meditation in motion,” it may be hard to imagine that its slow, gentle, choreographed movements could actually make people stronger. Not only stronger mentally but stronger physically and healthier as well.

I certainly was surprised by its effects on strength, but good research — and there’s been a fair amount of it by now — doesn’t lie. If you’re not ready or not able to tackle strength-training with weights, resistance bands or machines, tai chi may just be the activity that can help to increase your stamina and diminish your risk of injury that accompanies weak muscles and bones.

Don’t get scared by its frequent description as an “ancient martial art.” Tai chi (and a related exercise called Qigong) does not resemble the strenuous, gravity-defying karate moves you may have seen in Jackie Chan films. Tai chi moves can be easily learned and executed by people of all ages and states of health, even those in their 90s, in wheelchairs or bedridden.

It’s been [eight years since I last summarized the known benefits of this time-honored form of exercise](#), and it has since grown in popularity in venues like Y’s, health clubs and community and senior centers. By now it is likely that millions more people have become good candidates for the help tai chi can provide to their well-being.

First, a reprise of what I previously wrote as to why most of us should consider including tai chi into our routines for stronger bodies and healthier lives.

- It is a low-impact activity suitable for people of all ages and most states of health, including those who have long been sedentary or “hate” exercise.
- It is a gentle, relaxing activity that involves deep breathing but does not work up a sweat or leave you out of breath.
- It does not place undue stress on joints and muscles and therefore is unlikely to cause pain or injury.
- It requires no special equipment or outfits, only lightweight, comfortable clothing.

- Once proper technique is learned from a qualified instructor, it is a low-cost activity that can be practiced anywhere, anytime.

One more fact: Beneficial results from tai chi are often quickly realized. Significant improvements involving a host of different conditions can be achieved within 12 weeks of tai chi exercises done for an hour at a time twice a week.

Much of the research, which was [reviewed in 2015 by researchers at Beijing University and Harvard Medical School](#), has focused on how tai chi has helped people with a variety of medical problems. It is summarized in a new book from Harvard Health Publications, “An Introduction to Tai Chi,” which includes the latest studies of healthy people whose mission was health preservation as well as people with conditions like high blood pressure, heart disease, diabetes, arthritis and osteoporosis.

Of the 507 studies included in the 2015 review, 94.1 percent found positive effects of tai chi. These included 192 studies involving only healthy participants, 142 with the goal of health promotion or preservation and 50 seeking better balance or prevention of falls.

This last benefit may be the most important of all, given that every 11 seconds an older adult is treated in the emergency room following a fall, and one in five falls results in a fracture, concussion or other serious injury.

For example, in an [analysis of high-quality studies published last year in the Journal of the American Geriatrics Society](#), researchers at the University of Jaen in Spain reported that older adults who did one-hour tai chi sessions one to three times a week for 12 to 26 weeks were 43 percent less likely to fall and half as likely to incur a fall-related injury.

Tai chi provided superior benefits to other fall-reduction approaches like physical therapy, balance exercises, stretching, yoga or resistance training. Tai chi, in effect, combines the benefits of most of these: It strengthens the lower body, improves posture, promotes flexibility, increases a person’s awareness of where the body is in space and improves one’s ability to navigate obstacles while walking.

Furthermore, if you should trip, tai chi can enhance your ability to catch yourself before you fall. It has also been shown to counter the fear of falling, which discourages people from being physically active and further increases their likelihood of falling and being injured.

Even if you do fall, tai chi, as a weight-bearing but low-stress exercise, can reduce your chances of breaking a bone. Four well-designed clinical trials showed that tai chi has positive effects on bone health. For example, in [a yearlong study in Hong Kong](#) of 132 women past menopause, those practicing tai chi experienced

significantly less bone loss and fewer fractures than those who remained sedentary.

For people with painful joints and muscles, tai chi enhances their ability to exercise within a pain-free range of motion. Pain discourages people from moving, which makes matters worse as muscles get weaker and joints stiffer. The movements involved in tai chi minimize stress on painful areas and, by improving circulation, can foster relief and healing.

A [2016 study of 204 people with knee pain](#) from osteoarthritis found that tai chi done twice a week was just as effective as physical therapy in relieving their discomfort. But that was not all: Those doing tai chi for the 12 weeks reported that they were less depressed and had a better quality of life than those undergoing physical therapy.

Tai chi can also be an entry point for people who may have fallen off the exercise wagon but want to get back to doing more vigorous and often more enjoyable physical activities like swimming and hiking, or biking and walking to and from errands instead of relying on vehicles that pollute the air and clog the roads.

Guidelines from the American College of Sports Medicine and the American Heart Association recommend that sedentary older adults begin with balance, flexibility and strength training exercises before launching into moderate to vigorous physical activity. Tai chi is ideal for getting people ready for more demanding action.

And, in the process of getting your body in shape with tai chi, you're likely to improve your mental state. In a [New Zealand study of college students](#), tai chi was shown to counter depression, anxiety and stress. It also enhances an important quality called self-efficacy — [confidence in one's ability](#) to perform various activities and overcome obstacles to doing so.

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