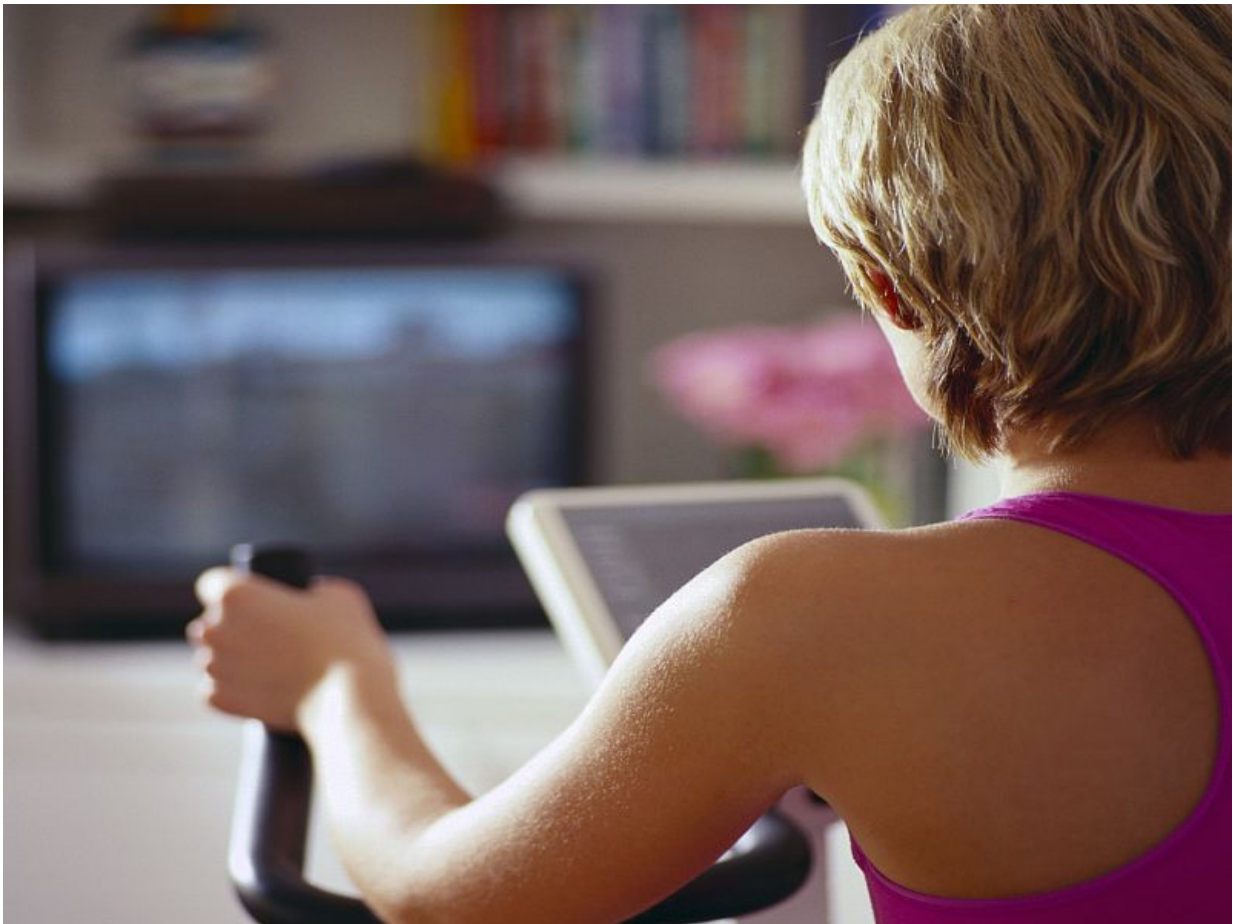


Short stretches of exercise may have anti-inflammatory effect

January 19 2017, by Randy Dotinga, Healthday Reporter



(HealthDay)—Just 20 minutes of moderate exercise may dampen

inflammation in the body, researchers say.

The study findings suggest that "[exercise](#) doesn't have to be tremendously hard for you to see [health benefits](#) from it," said study author Suzi Hong. She is an associate professor at the University of California, San Diego.

The researchers focused on inflammation—swelling—in the body.

The immune system produces swelling by rushing to protect the body from injuries and invaders, such as germs. But inflammation can become permanent, poisoning tissues in the body and contributing to diseases, including diabetes, Hong explained.

Obesity, for example, is thought to produce higher levels of inflammation. That inflammation can contribute to heart disease by affecting the arteries, Hong said.

Studies have suggested that exercise lowers inflammation, especially when you're active on a regular basis. However, "what is less known is how that is happening," Hong added.

For the new study, Hong and her colleagues recruited 47 volunteers—a mostly white group of 26 males and 21 females—with an average age of 41. The researchers gave them blood tests before and after the [study participants](#) walked at a moderate speed on a treadmill for 20 minutes.

The investigators found a 5 percent decline in immune cells linked to inflammation. Hong called this a "tangible" and "significant" improvement. But it's not clear what it means for a person's health, and the study did not prove cause and effect.

Still, she said, it could be helpful for people, regardless of whether they

have a disease linked to inflammation.

It's also unclear whether more exercise means a greater benefit. However, "if you're seeing this benefit every time you exercise, it'll have a cumulative effect," Hong suggested.

David Nieman, director of the Appalachian State University Human Performance Lab, said the new research did not represent a breakthrough—it just reinforced existing knowledge.

"It's definitely not a high-level study, just confirming things we already know," he said. "But it's fine, another bit of information that confirms what we all know in the world of lifestyle and inflammation."

Nieman said it's important to fight off [inflammation](#) because "it's a serious issue that undergirds just about every major chronic disease that modern-day men and women experience. It really needs to be managed and reduced."

The most powerful way to do that, he said, is by controlling weight.

As for future research, Hong said it would be helpful to better understand exactly how exercise affects the [body](#).

"We want to break it down into bite-size pieces for the public and say there are specific immune-based, cell-based changes you're making when you exercise," she said.

The study was published online recently in the journal *Brain, Behavior, and Immunity*.

More information: For more about exercise guidelines, visit the [U.S. National Heart, Lung, and Blood Institute](#).

Copyright © 2017 [HealthDay](#). All rights reserved.

Citation: Short stretches of exercise may have anti-inflammatory effect (2017, January 19)
retrieved 20 March 2024 from <https://medicalxpress.com/news/2017-01-short-anti-inflammatory-effect.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.