

# One minute of weekly exercise enough to provide health benefits to elderly

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Credit: University of Abertay Dundee

Just one minute of exercise per week is enough to provide health benefits to people over the age of 65, according to new research.

The study, from Abertay University in Dundee, saw groups of 65 to 75-year-olds participate in either once or twice weekly [training](#) sessions for a period of 8 weeks.

Each had been living a [sedentary lifestyle](#), and had not been taking part in regular exercise.

The participants took to stationary bikes, and were asked to cycle as hard as they were able to for six seconds before resting for at least a minute.

They would repeat the process—which is known as sprint interval training (SIT) – until they had exercised for a total of one minute.

Experts found that the once weekly session was enough to produce improvements in blood glucose control and general mobility.

As people age, they lose the ability to take glucose

out of their blood which results in insulin resistance.

This can lead to Type 2 diabetes, and problems with the heart and liver.

Dr. John Babraj, who led the study, said: "We've found that SIT, whether it's done once a week or twice a week, improves the ability to get glucose out of the system.

"While those participating in the twice-weekly sessions observed a greater improvement, those taking part in the single session also observed change.

"Importantly, they also observed a difference in general function, greatly improving their ability to do everyday tasks such as getting up to answer a door and walk up and down stairs.

"These are major issues for older people. As we lose physical function, we start to become socially isolated, and as we become socially isolated our quality of life declines significantly."

Dr. Babraj wants to see [sprint interval training](#) introduced to the government's physical-activity guidelines: "Currently, [older adults](#) are advised to participate in at least 150 minutes of moderate intensity exercise each week, and that can be difficult to accrue.

"Both of our groups produced greater adaptations than what we would expect the smallest worthwhile change to be.

"Our results provide further support for the inclusion of this form of training in the guidelines as one of the methods to gain [health benefits](#)."

**More information:** The study is available online: [www.mdpi.com/1660-4601/17/2/454/pdf](http://www.mdpi.com/1660-4601/17/2/454/pdf)

Provided by University of Abertay Dundee

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