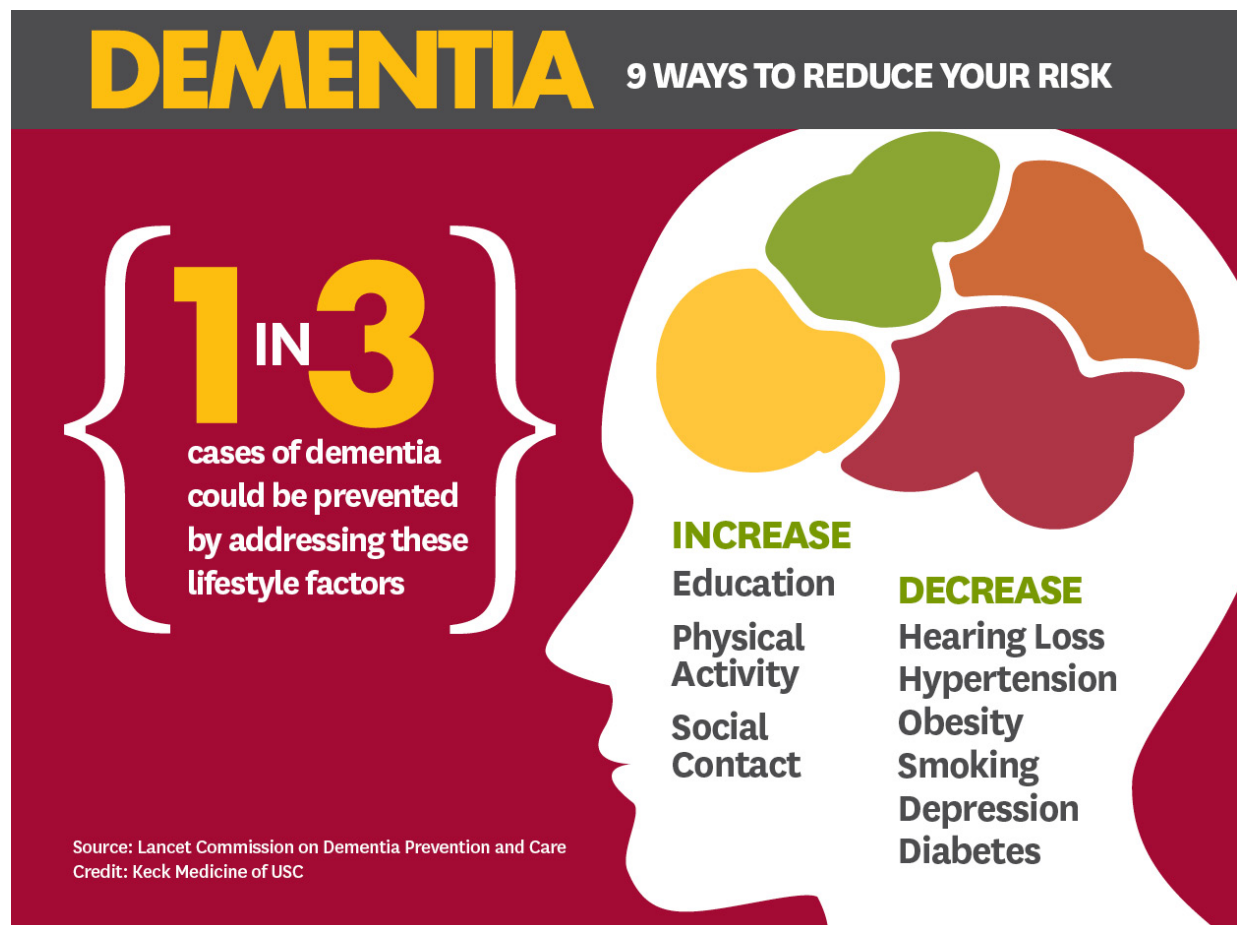


Lifestyle changes to stave off Alzheimer's? Hints, no proof

July 20 2017, by Luran Neergaard



One in three cases of dementia could be prevented by addressing nine lifestyle factors, according to a report from the first Lancet Commission on Dementia Prevention and Care. Credit: Keck Medicine of USC

There are no proven ways to stave off Alzheimer's, but a new report raises the prospect that avoiding nine key risks starting in childhood just might delay or even prevent about a third of dementia cases around the world.

How? It has to do with lifestyle factors that may make the brain more vulnerable to problems with memory and thinking as we get older. They're such risks as not getting enough education early in life, high blood pressure and obesity in middle age, and being sedentary and socially isolated in the senior years.

[Thursday's report](#) in the British journal *Lancet* is provocative—its authors acknowledge their estimate is theoretical, based on statistical modeling. A recent U.S. report was much more cautious, saying there are encouraging hints that a few lifestyle changes can bolster brain health but little if any proof.

Still, it's never too early to try, said *Lancet* lead author Gill Livingston, a psychiatry professor at University College London.

"Although dementia is diagnosed in later life, the brain changes usually begin to develop years before," she noted.

Early next year, a \$20 million U.S. study will begin rigorously testing if some simple day-to-day activities truly help older adults stay sharp. In the meantime, Alzheimer's specialists say there's little down side to certain common-sense recommendations.

"Increased health of the body supports increased health of the brain," said cognitive neuroscientist Laura Baker of Wake Forest School of Medicine in North Carolina, who will lead the upcoming U.S. study.

Consider physical activity, crucial for heart health. "If in fact it should

also improve the prospects for cognitive function and dementia, all the better," said Dr. Richard Hodes, director of the U.S. National Institute on Aging and an avid exerciser.

Here's the latest from this week's Alzheimer's Association International Conference on possible ways to guard your brain:

KEY RISKS

A Lancet-appointed panel created a model of dementia risks throughout life that estimates about 35 percent of all cases of dementia are attributable to nine risk factors—risks that people potentially could change.

Their resulting recommendations: Ensure good childhood education; avoid high blood pressure, obesity and smoking; manage diabetes, depression and age-related hearing loss; be physically active; stay socially engaged in old age.

The theory: These factors together play a role in whether your brain is resilient enough to withstand years of silent damage that eventually leads to Alzheimer's.

DOES CHANGING THESE OR OTHER LIFESTYLE FACTORS REALLY HELP?

Last month, the U.S. National Academies of Sciences, Engineering and Medicine reported there's little rigorous proof. That report found some evidence that controlling blood pressure, exercise and some forms of brain training—keeping intellectually stimulated—might work and couldn't hurt.

Why? What's good for the heart is generally good for the brain. In fact,

high blood pressure that can trigger heart attacks and strokes also increase risk for what's called "vascular dementia."

And exercising your gray matter may bulk up the brain, whether it's from childhood education or learning a new language as an adult. The more you learn, the more connections your brain forms, what scientists call cognitive reserve. Some U.S. studies have suggested that generations better educated than their grandparents have somewhat less risk of dementia.

Other factors have less scientific support. Studies show people with hearing loss are more likely to experience memory problems, and have speculated that it's because hearing loss leads to depression and social isolation—or even makes the brain work harder to deal with garbled sound, at the expense of other thinking skills. But so far there aren't studies proving hearing aids reverse that risk.

In fact, the strongest evidence that lifestyle changes help comes from Finland, where a large, randomized study found older adults at high risk of dementia scored better on brain tests after two years of exercise, diet, cognitive stimulation and social activities.

HUNTING PROOF

Would those strategies help Americans, who tend to be sicker, fatter and more sedentary than Scandinavians? The Alzheimer's Association is funding a study to find out, with enrollment of 2,500 cognitively healthy but high-risk older adults to begin next year.

Want to try on your own? They'll test:

—Walking—supervised, so no cheating. Wake Forest's Baker puts seniors on treadmills at the local YMCA to avoid bumpy sidewalks. She

starts exercise-newbies at 10 minutes a day for two days a week and works up to longer walks on more days.

—A diet that includes more leafy greens, vegetables, whole grains, fish and poultry than the typical American menu.

—Certain brain games and what Baker called an "intellectual stimulation barrage," outings and other steps that keep people social, not sitting home on a computer, while they exercise their brains.

—Improving control of medical conditions like high blood pressure and diabetes that are toxic to the brain.

More information: [DOI: 10.1016/S0140-6736\(17\)31363-6](https://doi.org/10.1016/S0140-6736(17)31363-6)

[phys.org/wire-news/261991165/r ... -be-preventable.html](https://www.phys.org/wire-news/261991165/r...-be-preventable.html)

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Citation: Lifestyle changes to stave off Alzheimer's? Hints, no proof (2017, July 20) retrieved 9 April 2024 from

<https://medicalxpress.com/news/2017-07-experts-cases-dementia-nonmedical-therapies.html>

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