

# Does being a bookworm boost your brainpower in old age?

July 3 2013

---

New research suggests that reading books, writing and participating in brain-stimulating activities at any age may preserve memory. The study is published in the July 3, 2013, online issue of *Neurology*, the medical journal of the American Academy of Neurology.

"Our study suggests that exercising your brain by taking part in activities such as these across a person's lifetime, from childhood through old age, is important for [brain health](#) in old age," said study author Robert S. Wilson, PhD, with Rush University Medical Center in Chicago.

For the study, 294 people were given tests that measured memory and thinking every year for about six years before their deaths at an average age of 89. They also answered a questionnaire about whether they read books, wrote and participated in other mentally stimulating activities during childhood, adolescence, [middle age](#) and at their current age.

After they died, their brains were examined at autopsy for evidence of the physical signs of dementia, such as lesions, [brain plaques](#) and tangles.

The research found that people who participated in mentally stimulating activities both early and late in life had a slower rate of decline in memory compared to those who did not participate in such activities across their lifetime, after adjusting for differing levels of plaques and tangles in the brain. Mental activity accounted for nearly 15 percent of the difference in decline beyond what is explained by plaques and tangles in the brain.

"Based on this, we shouldn't underestimate the effects of [everyday activities](#), such as reading and writing, on our children, ourselves and our parents or grandparents," said Wilson.

The study found that the rate of decline was reduced by 32 percent in people with frequent mental activity in late life, compared to people with average mental activity, while the rate of decline of those with infrequent activity was 48 percent faster than those with average activity.

Provided by American Academy of Neurology

Citation: Does being a bookworm boost your brainpower in old age? (2013, July 3) retrieved 2 May 2024 from <https://medicalxpress.com/news/2013-07-bookworm-boost-brainpower-age.html>

<p>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.</p>
--