

[Sign in](#)[Register](#)

- [Account](#)
 - [Profile](#)
 - [Newsletter](#)
 - [Favorites](#)
 - [Activity](#)
 - [Recent Activity](#)
 - [Email notifications](#)
 - [Display settings](#)
 - [PM](#)
 - [My news](#)
 - [Add news filter](#)
- [Follow us](#)
 - [Facebook](#)
 - [Twitter](#)
 - [Breaking news](#)
 - [Health news](#)
 - [Biology news](#)
 - [Technology and Electronics](#)
 - [Space news](#)
 - [Physics and Nanotech](#)
 - [Google](#)
 - [Google toolbar button](#)
 - [Google IG module](#)
 - [Chrome extension](#)
 - [Digg](#)
 - [Newsletter](#)
 -
 - [RSS news feeds](#)
 - [Latest news](#)
 - [Spotlight news](#)
 - [Feature and Editorials](#)
 - [More](#)
- [Mobile Apps](#)
 - [iPhone apps](#)
 - [PhysOrg News Lite](#)
 - [PhysOrg News Full](#)
 - [Medical & Health News](#)
 - [iPad apps](#)
 - [PhysOrg News Lite](#)
 - [PhysOrg News HD](#)
 - [Android apps](#)
 - [PhysOrg Science News Lite](#)
 - [PhysOrg Science News](#)
 - [Medical & Health News \(free\)](#)
 - [Medical & Health News](#)
 - [BlackBerry apps](#)
 - [PhysOrg.com News](#)
 - [Amazon Kindle](#)
 - [Science and Research News](#)
 - [Space and Earth News](#)
 - [Physics and Nanotechnology](#)

- [Health and Medicine News](#)
 - [Technology and Electronics](#)
 - [Biology and Chemistry News](#)
- [Text-to-Speech Podcasts](#)
 - [iTunes](#)
 - [More](#)
- [Quick nav](#)
 - [Feature stories](#)
 - [Weblog & Reports](#)
 - [Archive](#)
 - [Video](#)
 - [Podcasts](#)
- [Help](#)
 - [Suggest a story idea](#)
 - [Send feedback](#)
 - [PhysOrg FAQ](#)
 - [Sponsored account](#)
 - [About us](#)
 - [More](#)
- [Search](#)
 -
 - [advanced search](#)

[Science and technology news](#)

- [Home](#)
- [Nanotechnology](#)
- [Physics](#)
- [Space & Earth](#)
- [Electronics](#)
- [Technology](#)
- [Chemistry](#)
- [Biology](#)
- [Medicine & Health](#)
- [Other Sciences](#)

- [Psychology & Psychiatry](#)
- [Research](#)
- [Medications](#)
- [Cancer](#)
- [Genetics](#)
- [HIV & AIDS](#)
- [Diseases](#)
- [Other](#)
- [Health](#)
- [Neuroscience](#)

Speaking 2 languages may delay getting Alzheimer's

February 18, 2011 By LAURAN NEERGAARD , AP Medical Writer

Mastering a second language can pump up your brain in ways that seem to delay getting Alzheimer's disease later on, scientists said Friday.

[Ads by Google](#)

[Brain Training Games](#) - Improve memory and attention with scientific brain games. - www.lumosity.com

Never learned to habla or parler? While the new research focuses mostly on the truly long-term bilingual, scientists say even people who tackle a new [language](#) later in life stand to gain.

The more proficient you become, the better, but "every little bit helps," said Ellen Bialystok, a psychology professor at York University in Toronto.

Much of the study of [bilingualism](#) has centered on babies, as scientists wondered why simply speaking to infants in two languages allows them to learn both in the time it takes most babies to learn one. Their brains seem to become more flexible, better able to multitask. As they grow up, their brains show better "executive control," a system key to higher functioning - as Bialystok puts it, "the most important part of your mind."

But does that mental juggling while you're young translate into protection against [cognitive decline](#) when you're old?

Bialystok studied 450 Alzheimer's patients, all of whom showed the same degree of impairment at the time of diagnosis. Half are bilingual - they've spoken two languages regularly for most of their lives. The rest are monolingual.

The bilingual patients had Alzheimer's symptoms and were diagnosed between four and five years later than the patients who spoke only one language, she told the annual meeting of the American Association for the Advancement of Science.

Being bilingual does nothing to prevent Alzheimer's disease from striking. But once the disease does begin its silent attack, those years of robust executive control provide a buffer so that symptoms don't become apparent as quickly, Bialystok said.

"They've been able to cope with the disease," she said.

Her work supports an earlier study from other researchers that also found a protective effect.

What is it about being bilingual that enhances that all-important executive control system?

[Ads by Google](#)

[Imetrum Video Gauge](#) - Accurate non-contact displacement & strain measurement - www.imetrum.com

Both languages are essentially turned on all the time, but the [brain](#) learns to inhibit the one you don't need, said psychology professor Teresa Bajo of the University of Granada in Spain. That's pretty constant activity.

That's not the only area. University of British Columbia psychologist Janet Werker studies infants exposed to two languages from birth to see why they don't confuse the two, and says bilingual babies learn very early to pay attention better.

Werker tested babies in Spain who were growing up learning both Spanish and Catalan. She showed the babies videos of women speaking languages they'd never heard - English and French - but with the sound off. By measuring the tots' attention span, Werker concluded that babies could distinguish between English and French simply by watching the speakers' facial cues. It could have been the different lip

shapes.

"It looks like French people are always kissing," she joked, while the English "th" sound evokes a distinctive lip-in-teeth shape.

Whatever the cues, monolingual babies couldn't tell the difference, Werker said Friday at the meeting.

But what if you weren't lucky enough to be raised bilingual? Scientists and educators know that it becomes far harder to learn a new language after puberty.

Partly that's because adults' brains are so bombarded with other demands that we don't give learning a new language the same attention that a young child does, Bialystok said.

At the University of Maryland, scientists are studying how to identify adults who would be good candidates to master a new language, and then what types of training are best. Having a pretty strong executive control system, like the lifelong bilinguals have, is among the good predictive factors, said Amy Weinberg, deputy director of the university's Center for Advanced Study of Language.

But people don't have to master a new language to benefit some, Bialystok said. Exercising your brain throughout life contributes to what's called cognitive reserve, the overall ability to withstand the declines of aging and disease. That's the basis of the use-it-or-lose-it advice from aging experts who also recommend such things as crossword puzzles to keep your brain nimble.

"If you start to learn at 40, 50, 60, you are certainly keeping your brain active," she said.

More information: Science meeting: <http://www.aaas.org/meetings/>

©2010 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed.

[Ads by Google](#)

YOUR OPPORTUNITY
TO EXPERIENCE LIFE
CHANGING NLP TRAINING

COMING SOON TO LONDON

Why Learn NLP
anywhere else?

Click Here

□□□□□ □□□

[send feedback to editors](#)

Rate this story - 4.7 /5 (6 votes)

- rank
- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)