

Bilinguals use inter-language transfer to deal with dyslexia

June 14 2018

Dyslexic children learning both a language that is pronounced as written, like Spanish, and a second language in which the same letter can have several sounds, such as English, are less affected by this alteration when reading or writing in the latter language. The authors a new study say that this is less a cure than a reduction of some of the symptoms.

Dyslexia or dsxyliea? Anyone without a reading disorder could read the first word without any problem. But someone with a reading disorder would likely perceive something similar to the second word. Dyslexia is a deficit of reading ability that hinders learning and affects up to 10 percent of the population. It is partly genetic, and its diagnosis is made in children between ages eight and nine, although the symptoms appear earlier.

Today, the only way to treat this disorder is through early training adapted to the patient's age and symptoms. Now, however, research developed by the University of Bangor (Wales) and the Basque Centre on Cognition, Brain and Language (BCBL) of San Sebastian has shown that some combinations of bilingualism, transmitted from very early ages, can reduce symptoms.

The main goal here was to verify if bilingualism acquired by children who learn to read in English and Welsh at the same time could benefit those suffering from dyslexia assessed in the English language. "And the answer is yes," says Marie Lallier, a BCBL scientist and one of the authors of the study, published in *Scientific Studies of Reading*.

The study subjects were chosen for a fundamental reason: Welsh is among the so-called transparent languages, which means that letters are always pronounced the same way, as in Spanish and Basque. However, English, like French, is in the opaque category, because the same letter can have several sounds when read.

These new findings, for the first time, reveal a clear and unequivocal difference between the symptoms shown by bilingual and monolingual dyslexic persons. And its importance lies in the fact that a transfer between languages has been proven in the case of people who speak two languages.

"Bilingual people can rely on the resources they use in one language to help process the other language, and that is important because it can be very helpful for adults with language difficulties," stresses Lallier.

The experts proposed a hypothesis: If a child learns a transparent language along with an opaque one, the former will contribute to "decoding or acquiring the reading of the more complex of the two (that is, the opaque one)." And the results were conclusive.

"The English reading and writing deficit of dyslexic people who had learned to speak Welsh and English was less pronounced than among those who had acquired only one opaque language (English). It was a significant and quite clear difference," as Lallier explains.

The researchers worked with 60 people of between 18 and 40, divided into four groups: The first group comprised 15 adults with English monolingual dyslexia, and the second group comprised 15 bilingual dyslexics in Welsh and English. The other two, also containing 15 members each, were so-called control groups, composed of monolingual and bilingual non-dyslexics used for comparing the results.

All participants received the same stimuli in English to see if dyslexics trained to read in both languages had less severe symptoms in reading and phonological processes than those who did not know Welsh.

"Everyone had dyslexia, but we showed that bilinguals suffered less severe problems in English than exclusive English speakers."

A second language does not cure dyslexia

And how does this bilingualism influence schoolchildren, who are potentially the hardest hit by the effects of dyslexia? Lallier specifies that this study has only been tested on adults, but says, "These English-speaking bilingual people had fewer difficulties with literacy in English and overcame certain disorders with less difficulty than children who hadn't learned Welsh. You cannot say that a second language cures [dyslexia](#), because the adults in the study still suffer from it; it's simply that some of the symptoms have decreased. Generally speaking, it's good to fight against it, but there are different types of bilingualism—some learn a second [language](#) from birth, others at age six. That's why it can't be said yet that it's good for all cases."

The authors maintain that bilingual persons affected by this disorder should always receive support and re-education from speech therapists and specialized personnel.

More information: Marie Lallier et al, Learning to Read Bilingually Modulates the Manifestations of Dyslexia in Adults, *Scientific Studies of Reading* (2018). [DOI: 10.1080/10888438.2018.1447942](https://doi.org/10.1080/10888438.2018.1447942)

Provided by Spanish Foundation for Science and Technology (FECYT)

Citation: Bilinguals use inter-language transfer to deal with dyslexia (2018, June 14) retrieved 5

April 2023 from

<https://medicalxpress.com/news/2018-06-bilinguals-inter-language-dyslexia.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.