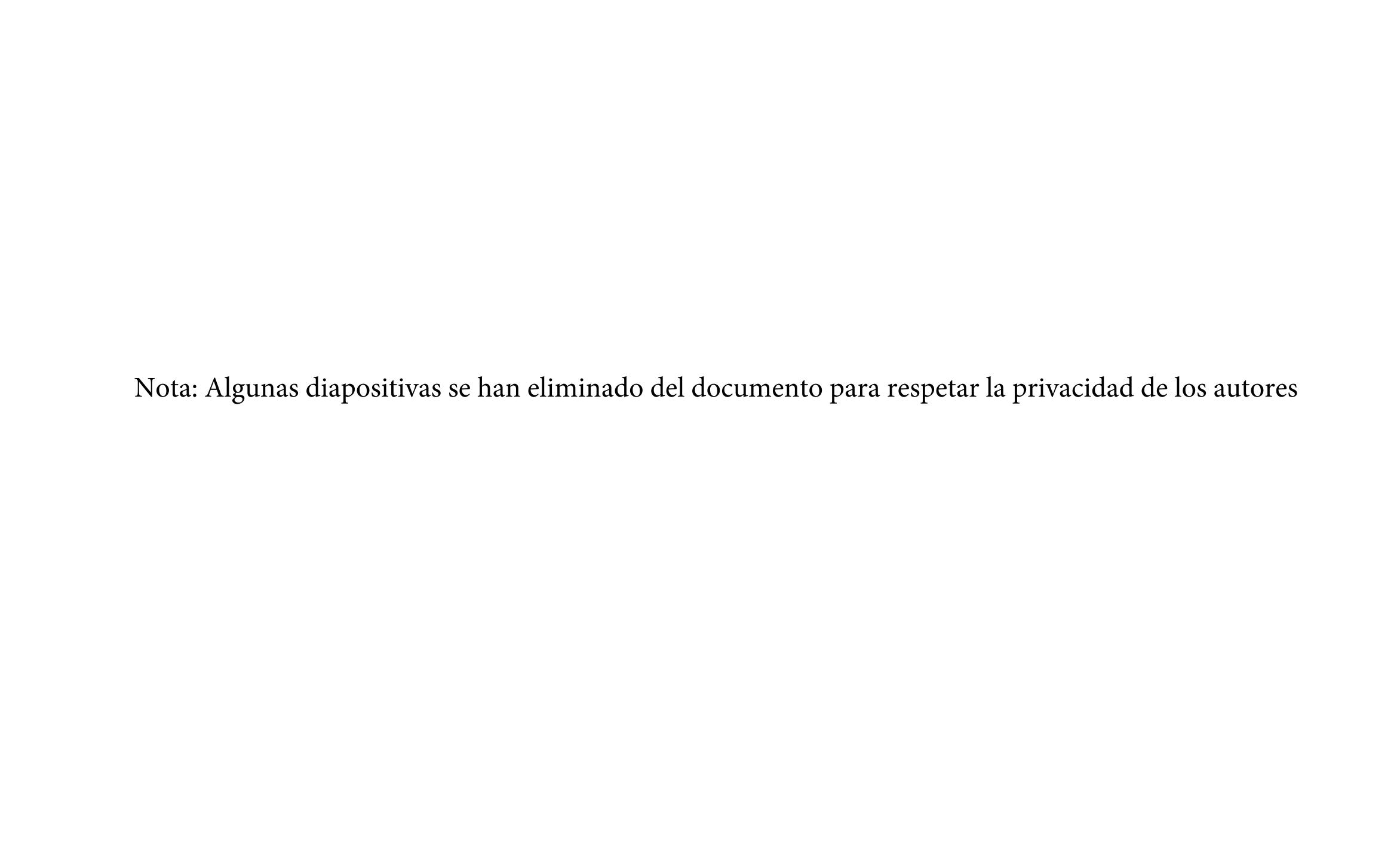
11th World Congress on Neurology and Therapeutics March 27-29, 2017 | Madrid (Spain)

The meaningfulness of cognitive processing speed in the assessment of cognitive impairment

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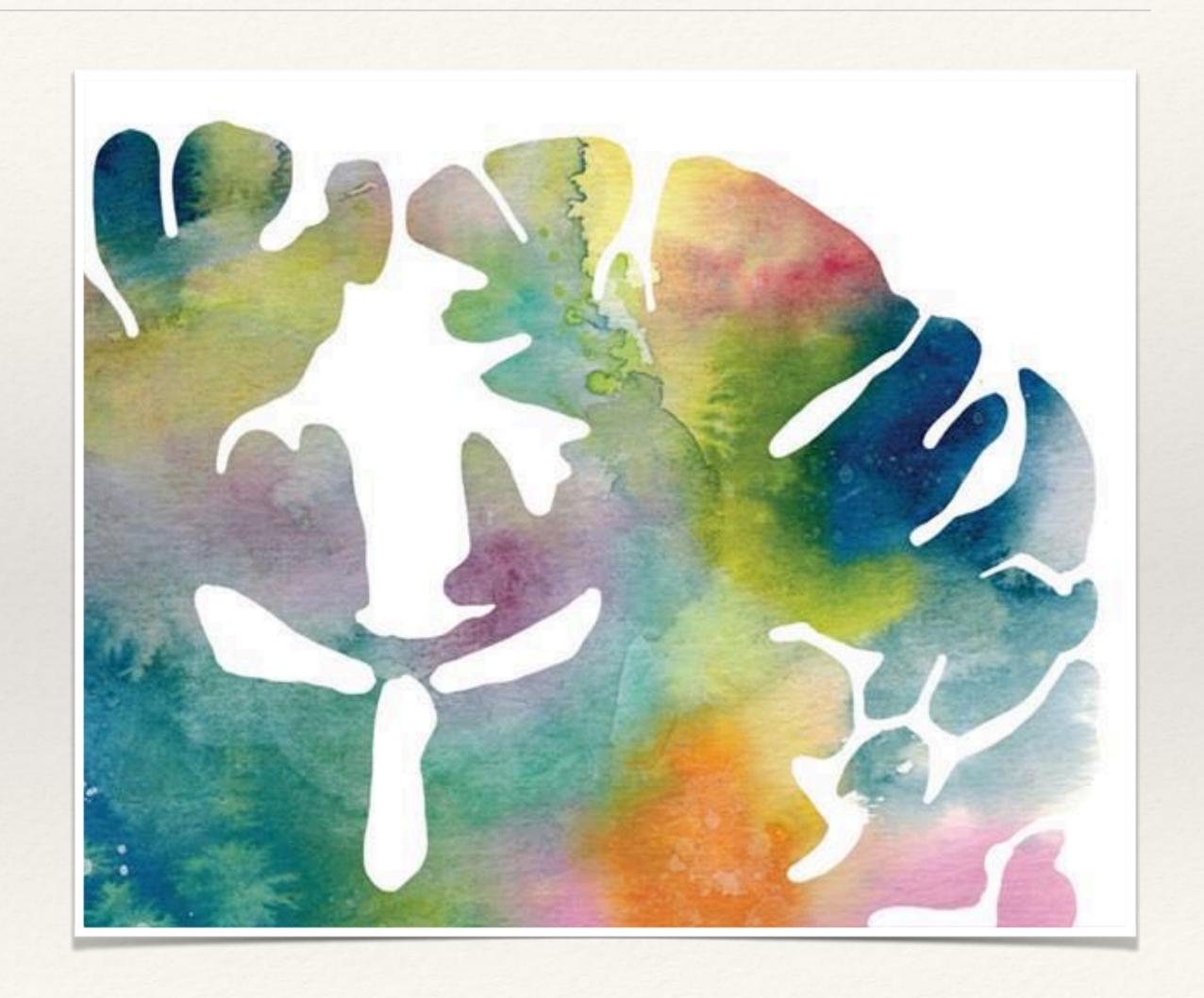
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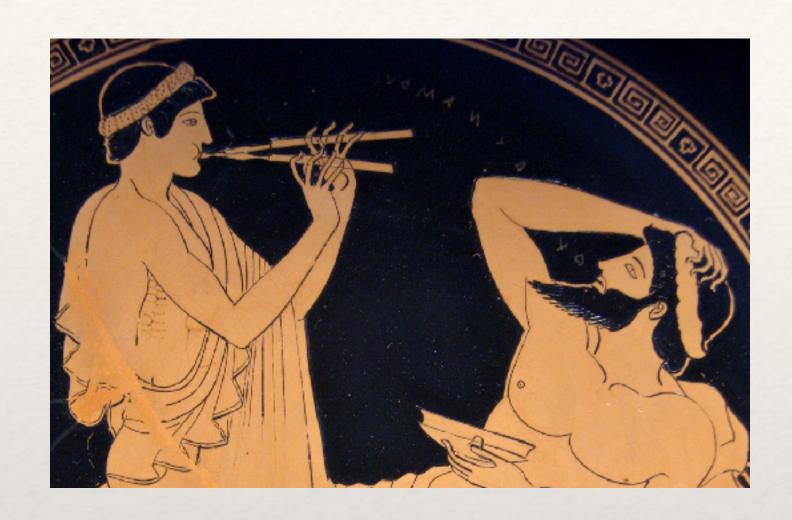


Content

- * Facts and fancies on Alzheimer's disease & cognitive impairments
- What do 'all impairments' have in common
- * What 'really' is cognitive processing speed
- * How can we assess cognitive processing speed
 - * Importance of the assessment
- * Take home messages



Cognitive impairment and dementia



Ancient Greece
Hippocrates
460-370 BC



Alois Alzheimer & Auguste D.

1906



Genetics and molecular research

21st century

Most of tests neuropsychologist use are based on the observation of certain cognitive abilities through others, such as memory and verbal skills.

- Molloy. et al., 1991

How often have we assessed cognitive function using time? And, isn't time related to cognitive processing speed?



What is TIME?



AND PROCESSING SPEED?



It is the time a person needs, in equal environmental conditions, to perceive a simple, daily-known but not automated stimulus, process it and respond to it using their own cognitive resources.

(Buding, 2009; DeLuca, 2008; Luna, 2004; Ríos-Lago, 2012; Salthouse, 1996a; 1996b; Subirana, 2014; Wyatt, 2005)



Why is then, important to assess CPS?

- * Slowdown in processing speed IS NOT
 - * a learning disability
 - * an attentional problem, but
 - * affects every single stage of learning.
- * It may contribute to some learning disorders, like ADHD, dyslexia, dyscalculia, or an auditory processing disorder or to other disabilities such as AD, MCI or other neurodegenerative processes.
- * Processing speed is **also related to Autism spectrum disorders**, and other pathologies like dementias or **schizophrenia** can also cause slow processing speed.
- * Slow processing speed **can affect everyday tasks** like goal planning, problem solving, and reaching personal goals or others such as attention or memory.

To sum up...

Take home messages:



- 1. Slow processing speed can affect the ability to remember, pay attention or make decisions quickly.
- 2. Trouble with processing speed can affect a everyday's functioning skills.
- 3. Having your cognition evaluated can reveal problems with processing speed an can help to explain other disturbances, disabilities or impairments.

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Thankyou

