

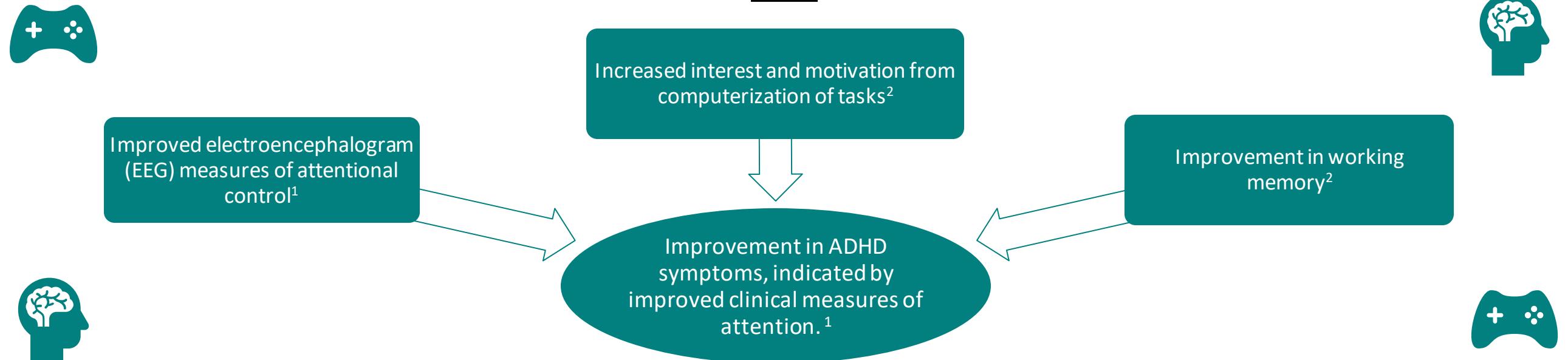
What?

Attention-deficit hyperactivity disorder (**ADHD**) is a neurodevelopmental condition which affects children and is characterised by **inattention and/or hyperactivity and impulsivity**. These features disrupt their school and social functioning.¹

Why?

Pharmacological and behavioural treatments are in use for ADHD, however, there are some drawbacks such as side-effects of the drugs and poor access to behavioral therapy. Game-based digital therapeutics may serve as a **substitute or add-on therapy**.¹

How?



Who?

ADHD is a common condition affecting children with an estimated **global incidence of 2.2%**.³ Improvement in symptoms have been reported for both patients with co-morbidities and those with primary ADHD. Parents of children with ADHD also reported reduced inattention symptoms as measured by the Vanderbilt patient report tool.¹

Author Comments

Although this evidence projects the **therapeutic effects of video games in ADHD**, some studies have also associated playing video games with worse ADHD symptoms. This can be linked to the specificity of the video game. Children may benefit from digital therapeutics **specifically designed to stimulate players to carry out accurate and precise actions**, with increasing levels. Also, further research is needed to determine how long these beneficial effects will last for.

References

1. Gallen. CL, Anguera. JA, Gerdes. MR, Simon. AJ, Cañadas. E, Marco. EJ. Enhancing neural markers of attention in children with ADHD using a digital therapeutic. PLoS One. (2021) 16(12): e0261981.
2. Koceski. S, Koceska. N. Development and evaluation of video games for learning capabilities improvement of ADHD children. International Conference on Information Technology and Development of Education. (2015) : 63-67
3. ADHD Institute. Burden of ADHD – Epidemiology. (2021) Available from: <https://adhd-institute.com/burden-of-adhd/epidemiology/>