THE USE OF EVENT-RELATED POTENTIALS IN THE INVESTIGATION OF COGNITIVE PERFORMANCE IN PEOPLE WITH MULTIPLE SCLEROSIS

Robin Vlieger, Duncan Austin, Artem Lensky, Hanna Suominen,

Deborah Apthorp, Elena Daskalaki, Christian J. Lueck



Why event-related potentials?

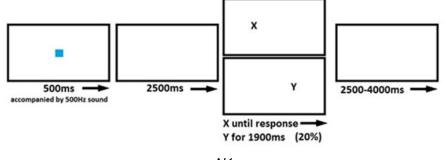
- Cognitive deficits are reported in 43% 70% of people with MS
- Many people with cognitive impairment experience significant reduction in their quality of life
- Cognitive deficits can occur independently of physical disability
- A clinically useful measure of cognitive function would help provide a more holistic assessment of disease status

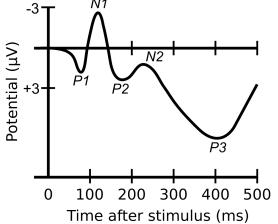


What is an ERP and how is it





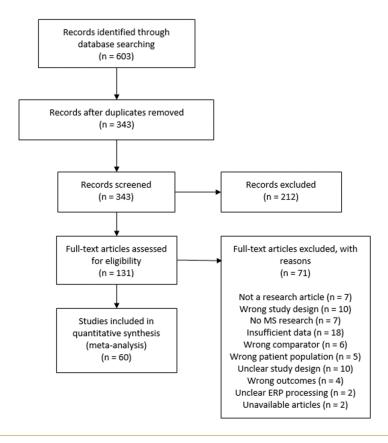






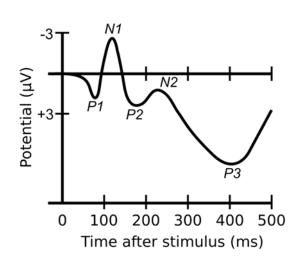
25 11 2022

The literature review: data extraction

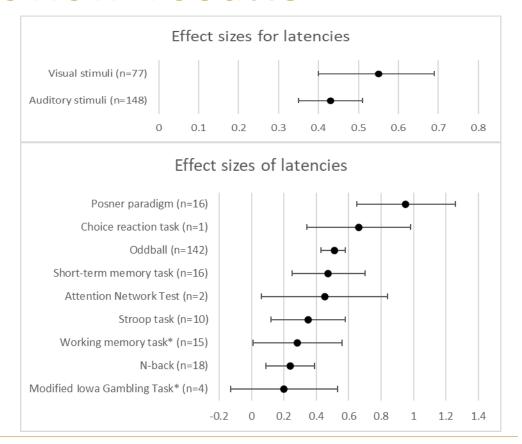




The literature review: results



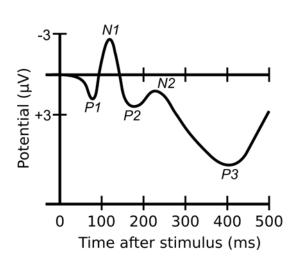
5

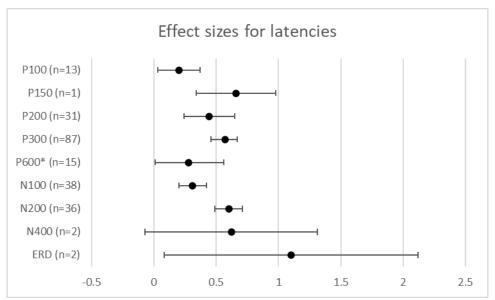




25 11 2022

The literature review: results







25 11 2022

The literature review: takeaways

- ERPs are an interesting research venue to assess cognition in MS
- When assessing ERPs in terms of latency differences, visual experiments seem to come out on top
- Many paradigms seem to show potential, but suffer from a small number of studies investigating them
- Research could benefit from investigating other experimental paradigms



THANK YOU

