

## Improving attention after brain injury?

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## Can you train working memory and attention?



- Working Memory current contents of conscious thought, capacity limited
- Attention goal directed task engagement, capacity limited
- Impairments likely due to large fronto-parietal networks, mechanisms of TBI etc.

 Promising but mixed data from children (e.g. Klingberg, 2005, Holmes et al., 2009).



Training well received, good compliance and technical performance

Training gains plateaued after ~15 days

Attention training linked with significant reduction on untrained spatial bias and amount taken in 'at a glance' tasks

Working memory training - significant increase in WM capacity on untrained task

Both training conditions linked with significant improvement in self-reported cognitive and motivation items from EBIQ

Current study (3 years, n = 100) funded by Stroke Association

