

# The Impact of COVID infection on Cognition in 6-12 Year Old Children

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## Abstract

Long COVID is defined as the persistence of COVID-19 symptoms for more than 12 weeks following infection (NICE, 2022). This condition is estimated to affect nearly 2 million people in the UK (ONS, 2023). Long COVID patients experience symptoms affecting multiple organ systems (Davis et al., 2023; Raveendran et al., 2021) including the CNS, and Cognitive symptoms (Davis et al., 2021; Guo et al., 2022a) and deficits (Guo et al., 2022b; Hampshire et al., 2021) have been demonstrated in adult sufferers. Despite the condition occurring in 13% of children who contract COVID-19 (NICE, 2022) there is little research on the cognitive impacts of Long COVID in pediatric samples. This study explores memory (item- and associative) and language (semantic and syntactic) across 80 6-12 year olds with and without history of covid infection, relating these to parent-reported cognitive symptoms including brain fog and short-term memory problems.