

ADHD : Cognitive behavioral changes versus MRI morphology of corpus callosum : A correlative study

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The study aimed to document possible differences in corpus callosum between children with attention deficit hyperactivity disorder (ADHD) and control. The mid sagittal length of the corpus callosum and the thickness of the genu, corpus and splenium were measured from magnetic resonance imaging of 30 children with ADHD and 20 carefully matched control children. The results showed that ADHD subjects were found to have significantly smaller splenium than the control. The smaller splenium in children with ADHD may relate to commonly seen sustained attention deficits, which had a negatively impact on the development of more advanced levels of attention such as self-regulation.