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**Neurocognitive effects of methylphenidate in adults with attention-deficit/hyperactivity disorder: A meta-analysis.**

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**Highlights**

- This meta-analysis reviewed 21 double-blind randomized controlled trials comparing the neurocognitive functioning of adults with attention-deficit/hyperactivity disorder (ADHD) on methylphenidate to placebo.
- The neurocognitive functioning of adults with ADHD is improved on methylphenidate as compared to placebo.
- Performance on methylphenidate was significantly better than on placebo for the following neurocognitive domains: working memory, reaction time variability, vigilance, driving, and response inhibition.
- Quantitative and qualitative analyses revealed evidence of publication bias that may be inflating the size of the results.

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