

No significant association found for ADHD meds, CVD risk

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There seems to be no statistically significant association between

attention-deficit/hyperactivity disorder (ADHD) medications and cardiovascular disease (CVD) risk, according to a systematic review and meta-analysis published online Nov. 23 in *JAMA Network Open*.

Le Zhang, M.P.H., from the Karolinska Institutet in Stockholm, and colleagues reviewed [observational studies](#) examining the association between ADHD medications and risk for CVD. Data were included from 19 studies with 3,931,532 children, adolescents, and adults; 14 of these studies were cohort studies and were included in the meta-analysis.

The researchers found that the pooled adjusted relative risk (RR) did not indicate a statistically significant association between ADHD medication use and any CVD among children and adolescents, young or middle-aged adults, or older adults (RRs [95 percent confidence intervals (CIs)], 1.18 [0.91 to 1.53], 1.04 [0.43 to 2.48], and 1.59 [0.62 to 4.05], respectively). No significant associations were observed for stimulants or nonstimulants (RRs [95 percent CIs], 1.24 [0.84 to 1.83] and 1.22 [0.25 to 5.97], respectively).

No statistically significant association was found for cardiac arrest or arrhythmias (RR, 1.60; 95 percent CI, 0.94 to 2.72), cerebrovascular diseases (RR, 0.91; 95 percent CI, 0.72 to 1.15), or myocardial infarction (RR, 1.06; 95 percent CI, 0.68 to 1.65). In [female patients](#) and those with preexisting CVD, no associations were observed (RRs [95 percent CIs], 1.88 [0.43 to 8.24] and 1.31 [0.80 to 2.16], respectively).

"Health care professionals must exercise caution and not slavishly adhere to consensus guidelines or follow conclusions from meta-analyses when treating individual patients," writes the author of an accompanying editorial. "Every treatment decision is a balance of potential harm and potential benefit, and that balance is different for every individual patient."

Two authors disclosed financial ties to the pharmaceutical industry.

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