

High-dose metformin linked to increases in child height

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(HealthDay)—Metformin use at high doses seems to be associated with increases in height among children, according to a review published online Sept. 28 in *JAMA Pediatrics*.

Nicholas Kuzik, from the University of Alberta in Edmonton, Canada, and colleagues conducted a systematic review of randomized trials examining the effects of metformin use on [height](#) among participants younger than 19 years. Data were included from 10 studies, with 562 participants (58.7 percent female).

The researchers observed no [significant difference](#) in height changes between the metformin and control groups. On stratification by cumulative metformin dose, compared with the [control group](#), the five studies providing the largest cumulative metformin doses showed a

greater increase in height with metformin use (weighted mean difference, 1.0 cm), which was not seen in the five studies providing the lowest doses (weighted mean difference, -0.1 cm).

"Preliminary evidence suggests a dose-response relationship between metformin use and increases in height in children and adolescents compared with a control group," the authors write.

More information: [Abstract](#)
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