

Not all pediatric cases of type 2 diabetes have obesity

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Not all pediatric patients with type 2 diabetes have obesity, according to

a systematic review and meta-analysis published online Dec. 15 in *JAMA Network Open*.

Milena Cioana, from McMaster University in Hamilton, Ontario, Canada, and colleagues conducted a systematic literature review to examine the [prevalence of obesity](#) in pediatric patients with type 2 diabetes.

Based on data from 53 articles (8,942 participants) included in the [meta-analysis](#), the researchers found that the overall prevalence of obesity among [pediatric patients](#) with type 2 diabetes was 75.27 percent, while the prevalence of obesity at diabetes diagnosis was 77.24 percent. Male participants had higher odds of obesity than female participants (odds ratio, 2.10). Compared with other racial groups, Asian participants had the lowest prevalence of obesity (64.50 percent) and White participants had the highest prevalence of obesity (89.86 percent).

"Understanding the causes of type 2 diabetes in children without obesity is crucial to define the etiology of their diabetes and to create effective management strategies for this cohort," the authors write. "Further research is needed to evaluate the causes of sex- and race and ethnicity-based associations of diabetes with obesity and explore additional factors that may affect the risk of developing type 2 diabetes apart from obesity in children."

More information: Milena Cioana et al, The Prevalence of Obesity Among Children With Type 2 Diabetes, *JAMA Network Open* (2022). [DOI: 10.1001/jamanetworkopen.2022.47186](https://doi.org/10.1001/jamanetworkopen.2022.47186)

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