

# Most children with obesity aren't screened properly for related conditions

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Most children in the United States diagnosed with obesity do not receive recommended laboratory tests for co-occurring conditions such as diabetes and liver disease, a new Yale study finds. Many also receive potentially unnecessary tests, and both can be harmful to patients, the researchers say.

The study was published July 14 in *JAMA Network Open*.

In 2007, the American Academy of Pediatrics released a set of recommendations for how to assess the health of older children with obesity. Those guidelines urge clinicians to screen these children for diabetes, [liver disease](#), and lipid disorders every two years; routine insulin testing and screening for thyroid dysfunction are not recommended.

For the new study, researchers analyzed two databases of insurance claims submitted between 2018 and 2019, finding that just over a quarter of children received the recommended tests while a similar proportion received unnecessary tests.

"This signals to us that while screening recommendations are out there, they're not really being implemented into practice," said Dr. Mona Sharifi, an associate professor of pediatrics and public health and lead author of the study. Her co-author Kao-Ping Chua, an assistant professor of pediatrics at University of Michigan Medical School, notes, "This is a major problem because near 1 in 5 U.S. children have obesity and early detection of obesity-related conditions can make a huge difference for children during the course of their lives."

When children are undertested, co-occurring conditions can be missed, delaying interventions that may improve outcomes, the researchers say.

Overtesting can also subject patients to unnecessary harm, Sharifi said. These tests can cause patients and their families to worry about a condition that they do not actually have. And false positives can lead to additional visits, testing, and concerns that aren't warranted.

"The other downside—the added cost—affects the population and health system level," she added.

Sharifi and her colleagues also found that the patients who received the recommended tests were often subjected to overly broad panels that included multiple unnecessary tests. This, they say, can also lead to false positives.

"With these really broad panels, there's a higher probability that a false result will scare a family or lead you down a pathway of additional testing," said Sharifi.

She and her co-authors offer suggestions for mitigating the problem. Adding alerts into [electronic health records](#) (EHRs), for instance, could prompt clinicians to order tests for patients who need them. And having an order set in EHRs that defaults to the correct types of tests could decrease use of

overly broad screening panels.

In addition, testing guidelines need to be clear in both language and reasoning to encourage adoption.

"Guideline writers need to be very clear in offering specific, actionable, and directive guidelines that can be implemented into routine practice," said Sharifi. "You can't just throw guidelines out into the world, either. You also need to supplement them with other tools and strategies to support implementation."

Sharifi is part of the American Academy of Pediatrics subcommittee working on updating the organization's guidelines around recommended screening for [children](#) diagnosed with obesity. The revised recommendations are expected to publish later in 2022.

**More information:** Mona Sharifi et al, Assessment of Underuse and Overuse of Screening Tests for Co-occurring Conditions Among Children With Obesity, *JAMA Network Open* (2022). [DOI: 10.1001/jamanetworkopen.2022.22101](#)

Provided by Yale University

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