

One in four patients say they've skimped on insulin because of high cost

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For patients with diabetes, insulin is a life-saving medicine and an essential component of diabetes management, yet in the past decade alone, the out-of-pocket costs for insulin have doubled in the United

States. One-quarter of patients with type 1 or 2 diabetes have reported using less insulin than prescribed due to these high costs, Yale researchers write in *JAMA Internal Medicine*, and over a third of those patients experiencing cost-related underuse said they never discussed this reality with their provider.

"You might have heard stories of [patients](#) rationing their insulin," said Yale endocrinologist and senior author Dr. Kasia Lipska. "The stories are really powerful, but they don't tell us how common this problem has become. Our findings show that these are not isolated incidents and that skimping on insulin is frighteningly common. As clinicians, we have to advocate for change because the status quo is simply cruel and not acceptable."

Researchers surveyed a diverse sample of patients from across New Haven County, Connecticut, who use the Yale Diabetes Center for treatment. They asked patients about many different types of cost-related insulin underuse: using less insulin than prescribed, trying to stretch out one's prescribed insulin, taking smaller doses of insulin than prescribed, stopping the use of insulin, not filling an insulin prescription, and/or not starting insulin. One in four respondents indicated they'd done at least one of those underuse behaviors in the past year due to insulin's out-of-pocket cost.

"The data we collected speak loud and clear to the fact that cost is a huge barrier to insulin accessibility," said Pavithra Vijayakumar, co-first author and Yale medical student. "I hope this spurs more action to help patients afford this life-sustaining medication."

The [survey](#) found that the quarter of patients who'd indicated they engaged in any type of [insulin](#) underuse were much more likely (43% versus 28%) to have poor glycemic control, an important indicator of the effectiveness of diabetes management. Additionally, they found that

lower-income patients were more likely to report cost-related underuse, and nearly two-thirds of those patients reported that they also experienced difficulty affording other [diabetes](#) management equipment.

"It was really eye-opening to hear patients' stories as they turned in completed surveys," said Darby Herkert, co-first author of the study and Yale undergraduate. "I've worked in various global health settings, but this brought home to me how much patients struggle with [costs](#) right here in New Haven."

More information: Darby Herkert et al, Cost-Related Insulin Underuse Among Patients With Diabetes, *JAMA Internal Medicine* (2018). [DOI: 10.1001/jamainternmed.2018.5008](https://doi.org/10.1001/jamainternmed.2018.5008)

Provided by Yale University

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