

One in four older adults prescribed a benzodiazepine goes on to risky long-term use

10 September 2018



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They may start as well-intentioned efforts to calm anxiety, improve sleep or ease depression. But prescriptions for sedatives known as benzodiazepines may lead to long-term use among one in four older adults who receive them, according to new research.

That's despite warnings against long-term use of these drugs, especially among older people, because they can increase the risk of car crashes, falls and broken hips, as well as causing other side effects.

The new study, published in *JAMA Internal Medicine* by a team from the University of Michigan, VA and University of Pennsylvania, looked at benzodiazepine use by low-income older [adults](#) in a Pennsylvania program that helps with drug costs.

The researchers say their findings point to a strong need for better education of healthcare providers,

and the public, about the risks associated with these drugs.

Of the 576 adults who received their first benzodiazepine prescription in 2008 to 2016, 152 still had a current or recent prescription a year later. The study only included people whose benzodiazepines were prescribed by non-psychiatrists, as the majority of older adults who use benzodiazepines have their prescriptions written by [primary care physicians](#) or other non-psychiatrists.

White [patients](#) were four times more likely to have gone on to long-term use. Those whose initial prescriptions were written for the largest amounts were also more likely to become long-term benzodiazepine users. For just every 10 additional days of medication prescribed, a patient's risk of long-term use nearly doubled over the next year.

That rate of long-term use is concerning enough in itself, says Lauren Gerlach, D.O., M.Sc., the lead author of the study and a geriatric psychiatrist at U-M.

"This shows that we need to help providers start with the end in mind when prescribing a benzodiazepine, by beginning with a short-duration prescription and engage patients in discussions of when to reevaluate their symptoms and begin tapering the patient off," she says. "We also need to educate providers about effective non-pharmaceutical treatment alternatives, such as [cognitive behavioral therapy](#), for these patients."

Gerlach points to two other concerning findings from the review of records and detailed interviews with program participants. Long-term benzodiazepine users were no more likely to have a diagnosis of anxiety or depression—two conditions

in which long-term use sometimes make sense.

Also, long-term users were more likely to say they had sleep problems, despite the fact that benzodiazepines are not recommended for long-term use as sleep aids and may even worsen sleep the longer they are used.

More about the study

Gerlach and her colleagues at the U-M Medical School, VA Ann Arbor Healthcare System and University of Pennsylvania used data from the Supporting Seniors Receiving Treatment and Intervention, or SUSTAIN, service. The program provides a supplement to Medicare drug coverage for low-income older adults, and to those receiving psychiatric medications, it provides behavioral health and case management services. All of the patients in the study live at home or in other community settings, so the study does not include patients in nursing homes and other skilled nursing facilities.

This included detailed interviews to screen for mental health issues including anxiety, depression, sleep issues and pain, as well as analysis of prescription records and other clinical data. The researchers calculated a medication possession ratio, based on how many days' supply of benzodiazepines the person had been prescribed, and how many days remained in the time the prescription was valid. They set a threshold MPR of 30 percent over the course of a year as the definition of long-term use.

On average, the patients were 78 years old when they received their first benzodiazepine prescription—an advanced age for use of the drugs, which national guidelines say should rarely if ever be given to adults over about age 65. Very few had had any sort of psychiatric, psychological or psychosocial care in the past two years.

While treatment guidelines recommend only short-term prescribing, if any, these long-term patients were prescribed nearly 8 months' worth of medication over the following year.

"Since [mental health providers](#) see only a very

small minority of [older adults](#) who have [mental health issues](#), we need to support primary care providers better as they manage these patients' care," says Gerlach. "We must help them think critically about how certain [prescriptions](#) they write could increase the chance of long-term use."

More information: *JAMA Internal Medicine*, Sept. 10 2018. [DOI: 10.1001/jamainternmed.2018.2413](https://doi.org/10.1001/jamainternmed.2018.2413)

Provided by University of Michigan

APA citation: One in four older adults prescribed a benzodiazepine goes on to risky long-term use (2018, September 10) retrieved 18 June 2021 from <https://medicalxpress.com/news/2018-09-older-adults-benzodiazepine-risky-long-term.html>

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