



# Benzodiazepine Use in Older Adults: Dangers, Management, and Alternative Therapies

Matej Markota, MD; Teresa A. Rumman, MD; John Michael Bostwick, MD;  
and Maria I. Lapid, MD



From the Department of Psychiatry and Psychology, Mayo Clinic, Rochester, MN.

## CME Activity

**Target Audience:** The target audience for *Mayo Clinic Proceedings* is primarily, internal medicine physicians and other clinicians who wish to advance their current knowledge of clinical medicine and who wish to stay abreast of advances in medical research.

**Statement of Need:** General internists and primary care physicians must maintain an extensive knowledge base on a wide variety of topics covering all body systems as well as common and uncommon disorders. *Mayo Clinic Proceedings* aims to leverage the expertise of its authors to help physicians understand best practices in diagnosis and management of conditions encountered in the clinical setting.

**Accreditation:** Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

**Credit Statement:** Mayo Clinic College of Medicine designates this journal-based CME activity for a maximum of 1.0 *AMA PRA Category 1 Credit(s)*.<sup>TM</sup> Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**MOC Credit Statement:** Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 1 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

**Learning Objectives:** On completion of this article, you should be able to (1) recognize problematic benzodiazepine use in a geriatric patient, (2) recognize the risks associated with (long-term) benzodiazepine use, and (3) initiate/manage a benzodiazepine taper and name several alternatives to benzodiazepines for treating insomnia and anxiety in older adults.

**Disclosures:** As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of Continuous Professional Development) must ensure balance, independence, objectivity, and scientific rigor in its

educational activities. Course Director(s), Planning Committee members, Faculty, and all others who are in a position to control the content of, this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of, the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation.

Disclosure of this information will be published in course materials so that those participants in the activity may formulate their own judgments regarding the presentation.

In their editorial and administrative roles, William L. Lanier, Jr, MD, Terry L. Jopke, Kimberly D. Sankey, and Nicki M. Smith, MPA, have control of the content of this program but have no relevant financial relationship(s) with industry.

The authors report no competing interests.

**Method of Participation:** In order to claim credit, participants must complete the following:

1. Read the activity.
2. Complete the online CME Test and Evaluation. Participants must achieve a score of 80% on the CME Test. One retake is allowed.

Visit [www.mayoclinicproceedings.org](http://www.mayoclinicproceedings.org), select CME, and then select CME articles to locate this article online to access the online process. On successful completion of the online test and evaluation, you can instantly download and print your certificate of credit.

**Estimated Time:** The estimated time to complete each article is approximately 1 hour.

**Hardware/Software:** PC or MAC with Internet access.

**Date of Release:** 11/1/2016

**Expiration Date:** 10/31/2018 (Credit can no longer be offered after it has passed the expiration date.)

**Privacy Policy:** <http://www.mayoclinic.org/global/privacy.html>

**Questions?** Contact [dletsupport@mayo.edu](mailto:dletsupport@mayo.edu).

## Abstract

Several major medical and psychiatric organizations, including the American Geriatrics Society, advise against using benzodiazepines or nonbenzodiazepine hypnotics in older adults. Despite these recommendations, benzodiazepines continue to be massively prescribed to a group with the highest risk of serious adverse effects from these medications. This article summarizes legitimate reasons for prescribing benzodiazepines in the elderly, serious associated risks of prescribing them, particularly when not indicated, barriers physicians encounter in changing their prescription patterns, and evidence-based strategies on how to discontinue benzodiazepines in older patients. Although more research is needed, we propose several alternatives for treating insomnia and anxiety in older adults in primary care settings. These include nonpharmacological approaches such as sleep restriction—sleep compression therapy and cognitive behavioral therapy for anxiety or insomnia, and as well as alternative pharmacological agents.

© 2016 Mayo Foundation for Medical Education and Research ■ *Mayo Clin Proc.* 2016;91(11):1632-1639

The American Geriatrics Society (AGS) placed benzodiazepines on a list of medications that should be avoided in patients over 65 years of age.<sup>1</sup> Several major

psychiatric associations also advise against using benzodiazepines for generalized anxiety disorder and insomnia in the elderly.<sup>2</sup> Despite these recommendations, benzodiazepines

continue to be prescribed to a group with the highest risk of serious adverse effects from these medications.<sup>3</sup> In the United States, more than 10% of women and 6% of men aged 65 to 80 years filled at least one prescription for benzodiazepines in a 1-year period, approximately one-third of them receiving benzodiazepines for longer than 120 days in a year.<sup>3</sup> This widespread prescription of benzodiazepines in a population for which they are generally contraindicated has the potential for important public health consequences because benzodiazepine use is associated with risk of dependence, cognitive deficits, falls resulting in fractures, motor vehicle accidents, and overall mortality.<sup>1</sup>

Primary care physicians prescribe the largest absolute number of long-term benzodiazepines, likely because they see the greatest number of elderly patients.<sup>3</sup> However, in relative numbers, primary care physicians do not prescribe benzodiazepines at a higher rate than psychiatrists.<sup>4</sup> There are several interdependent reasons why doctors are unable to change their benzodiazepine prescription patterns. Some are intrinsic to physicians, including insufficient recognition of adverse effects, conviction that the risk to benefit ratio favors the latter, perceived lack of skills and training on how to respond to problems that occur during a taper, resource constraints such as limited time and a resultant decision to focus on other important medical issues in this population, fear of jeopardizing the doctor-patient relationship or fear of push-back leading to patients finding other doctors, unwillingness to question other colleagues' prescription rationales, and opinion that discontinuation could be too stressful for an elderly user with a limited life expectancy.<sup>5</sup> Other reasons are external to physicians, such as patients' resistance to change, health systems with insufficient reimbursement for the invested time and effort, limited availability of psychotherapists, absence of scheduled medication reviews, or inability to access support from psychiatrists in a timely fashion.<sup>5</sup> Importantly, older adults are a very heterogeneous group because this population ranges from 65-year-olds to centenarians, and not all older adults are affected equally by the aforementioned factors. For example, elderly patients in residential care facilities are at a higher risk of being exposed to benzodiazepines, and pressure from the

nursing staff to prescribe psychotropics seems to play an important role in that setting.<sup>5</sup> This and other factors have likely contributed to the prevalence of benzodiazepine use remaining unchanged in the elderly population over the past decade.<sup>1,6</sup>

This article reviews the literature on the risks of prescribing benzodiazepines to older adults, problems associated with benzodiazepine use in the elderly, ways to reduce their use, and alternatives to benzodiazepines for anxiety and insomnia.

## PRESCRIBING BENZODIAZEPINES

### AGS Guidelines and Clinical Practice

In 2015, the AGS published the fourth update of the so-called Beers criteria. These criteria are meant to be evidence-based recommendations by the AGS to guide decision making for prescribing to elderly patients by listing medications that have an unfavorable risk to benefit ratio. The criteria should be used to support clinical judgment and not to prohibit the use of the listed medications.<sup>1</sup> The AGS recommendations are intended for use in all clinical settings for people older than 65 years in the United States, outside of palliative or hospice care.<sup>1</sup> The 2015 update was authored by an interdisciplinary panel of 13 experts in geriatric care.<sup>1</sup> Each published recommendation was labeled as either "strong" or "weak" depending on the quality of available evidence, potential for harm, and availability of safer alternatives.<sup>1</sup> Most of the recommendations regarding benzodiazepine use are based on evidence of "moderate" quality and are given with a "strong" recommendation.<sup>1</sup> Two notable exceptions are (1) use of benzodiazepines in elderly patients with a history of falls and (2) use in elderly patients who are already receiving 2 or more drugs that act on the central nervous system.<sup>1</sup> The recommendation to avoid benzodiazepines in these 2 situations is based on "high" quality of evidence.<sup>1</sup> An important update in the new criteria is that nonbenzodiazepine receptor agonists (such as eszopiclone, zolpidem, and zolpidem) are unambiguously to be avoided regardless of duration of use, whereas the 2012 recommendations were more permissive of their use.<sup>1</sup> These drugs possess minimal efficacy in treating insomnia beyond acute periods measured

Download English Version:

<https://daneshyari.com/en/article/8674084>

Download Persian Version:

<https://daneshyari.com/article/8674084>

[Daneshyari.com](https://daneshyari.com)