

Prescription sleep medicine linked to motor vehicle collisions in older adults and women

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ASLEEP at the wheel



IN A NEW STUDY, UAB researchers found that drivers using prescription sleep medicines containing zolpidem had a **46% higher five-year crash rate** than non-users.

ZOLPIDEM SIDE EFFECTS

- ▶ Drowsiness on waking
- ▶ Impaired coordination

REDUCING RISK

WOMEN* AND THOSE AGED 80+ WERE MOST AT RISK.**
Health care practitioners should consider behavioral treatments before prescribing zolpidem for these groups, the researchers say.

ALTERNATIVES TO SLEEP MEDS



Melatonin supplements



Mind and body approaches

meditation, yoga, massage therapy, acupuncture



Stimulus control

keep a consistent sleep schedule; avoid caffeine, alcohol and heavy meals; sleep in a quiet, cool, dark room

* 65% higher five-year crash risk for women using zolpidem compared with women not using zolpidem

** 124% higher five-year crash risk for zolpidem users aged 80+ compared with non-users

A recent study by University of Alabama at Birmingham student assistant John Booth, III, and UAB Department of Epidemiology Professor and Vice Chair Gerald McGwin, Ph.D., published in *Sleep Medicine* linked the use of prescription sleep medicines containing zolpidem among aged drivers and the incidence of motor vehicle collisions.

"Due to the side effects of such drugs—including drowsiness upon waking and impaired coordination, current zolpidem users age 80 and older, as well as those who are female, experienced higher rates of MVCs than nonusers," said Booth, a Ph.D. candidate in UAB's Department of Epidemiology. "We recommend that health care practitioners consider proposing behavioral treatment before prescribing zolpidem to restore [sleep](#) in women and patients over age 80 to reduce the risk of MVCs associated with this prescription drug."

In the overall sample, the unadjusted 5-year [motor vehicle](#) collision rate was 46 percent higher for current zolpidem users versus nonusers. More specifically, the unadjusted 5-year motor vehicle collision rate was 65 percent higher for females and 23 percent higher in males who used zolpidem. For those 80 years of age and older, the unadjusted 5-year motor vehicle collision rate was 124 percent higher for zolpidem users compared with nonusers.

According to the National Institutes of Health National Center for Complementary and Integrative Health, possible treatment alternatives to sleep medications include relaxation techniques, melatonin supplements,

mind and body approaches such as meditation, as well as stimulus control such as consistent sleep schedules, and avoiding caffeine and alcohol.

A total of 2,000 north central Alabama zolpidem users, age 70 and up, who had driven within the previous three months and held a valid driver's license were studied. The researchers evaluated each participant's five-year MVC history, obtained from the Alabama Department of Public Safety, and then estimated at-fault MVC rate ratios by comparing zolpidem users' and nonusers' data in [age](#)- and sex-defined subgroups.

More information: John N. Booth et al. Zolpidem use and motor vehicle collisions in older drivers, *Sleep Medicine* (2015). [DOI: 10.1016/j.sleep.2015.12.004](#)

Provided by University of Alabama at Birmingham

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