

Men, people over 65 sleep better when they have access to nature

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Credit: Vera Kratochvil/public domain

Men and persons age 65 and older who have access to natural surroundings, whether it's the green space of a nearby park or a sandy beach and an ocean view, report sleeping better, according to a new University of Illinois study published in *Preventive Medicine*.

"It's hard to overestimate the importance of high-quality [sleep](#)," said Diana Grigsby-Toussaint, a U of I professor of kinesiology and community health and a faculty member in the U of I's Division of Nutritional Sciences. "Studies show that inadequate sleep is associated with declines in mental and physical health, reduced cognitive function, and increased obesity. This new study shows that exposure to a natural environment may help people get the sleep they need."

In the study, Grigsby-Toussaint worked with both U of I researchers and scientists from the New York University School of Medicine. The team used data from the CDC's Behavioral Risk Factor Surveillance System, which surveyed 255,171 representative U.S. adults, to learn whether there was an association between self-reported days of

insufficient sleep and access to [green space](#). The team also used a USDA index that scores the country's geographical areas for their natural amenities, using hours of sunlight, which is important in regulating a person's circadian rhythm, and temperature.

In response to the survey question about [sleep quality](#) in the last month, the researchers found that the most common answer was that respondents had slept poorly for less than one week.

"Interestingly, though, across the entire sample, individuals reporting 21 to 29 days of insufficient sleep consistently had lower odds of access to green space and natural amenities compared to those reporting less than one week," she said.

For men, the relationship between sleep and exposure to green space was much stronger than for women. And males and females 65 and over found nature to be a potent sleep aid, she added.

Grigsby-Toussaint noted that living near green landscapes is associated with higher levels of physical activity and that exercise in turn predicts beneficial sleep patterns.

But men appeared to benefit much more from their [natural surroundings](#). The researcher speculated that women may take less advantage of nearby natural settings out of concern for their safety, but she added that more research is needed.

The finding should be a boon for people who are having trouble sleeping as they age. "If there is a way for persons over 65 to spend time in nature, it would improve the quality of their sleep—and their quality of life—if they did so," Grigsby-Toussaint said.

The study points to the importance of conserving nature in general, she added.

"And, specifically, our results provide an incentive for nursing homes and communities with many retired residents to design buildings with more lighting, create nature trails and dedicated garden spaces, and provide safe outdoor areas that encourage outdoor activity for men and women," she said.

More information: "Sleep Insufficiency and the Natural Environment: Results from the U.S. Behavioral Risk Factor Surveillance System Survey" appears in the September 2015 issue of *Preventive Medicine* and is available online.

Provided by University of Illinois at Urbana-Champaign

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