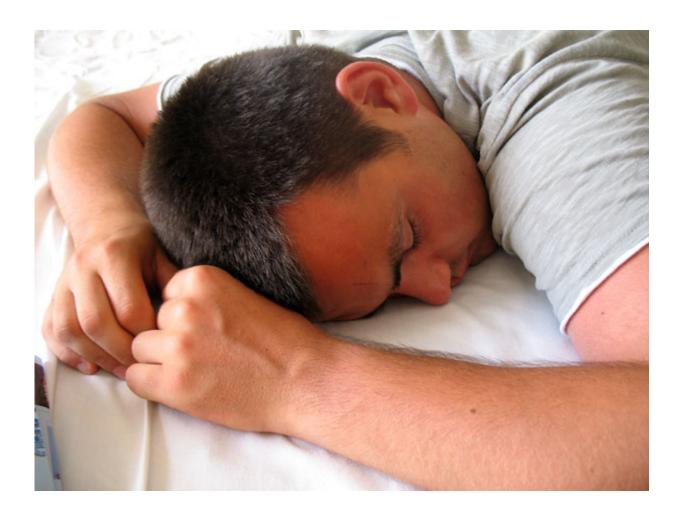


## Study suggests that what you eat can influence how you sleep

January 14 2016



Credit: Vera Kratochvil/public domain

A new study found that eating less fiber, more saturated fat and more



sugar is associated with lighter, less restorative, and more disrupted sleep.

Results show that greater fiber intake predicted more time spent in the stage of deep, <u>slow wave sleep</u>. In contrast, a higher percentage of energy from saturated fat predicted less slow wave <u>sleep</u>. Greater sugar intake also was associated with more arousals from sleep.

"Our main finding was that diet quality influenced <u>sleep quality</u>," said principal investigator Marie-Pierre St-Onge, PhD, assistant professor in the department of medicine and Institute of Human Nutrition at Columbia University Medical Center in New York, N.Y. "It was most surprising that a single day of greater fat intake and lower fiber could influence sleep parameters."

Study results are published in the January issue of the *Journal of Clinical Sleep Medicine*.

"This study emphasizes the fact that diet and sleep are interwoven in the fabric of a healthy lifestyle," said American Academy of Sleep Medicine President Dr. Nathaniel Watson, who was not involved in the study. "For optimal health it is important to make lifestyle choices that promote healthy sleep, such as eating a nutritious diet and exercising regularly."

The study also found that participants fell asleep faster after eating fixed meals provided by a nutritionist, which were lower in <u>saturated fat</u> and higher in protein than self-selected meals. It took participants an average of 29 minutes to fall asleep after consuming foods and beverages of their choice, but only 17 minutes to fall asleep after eating controlled meals.

"The finding that diet can influence sleep has tremendous health implications, given the increasing recognition of the role of sleep in the development of chronic disorders such as hypertension, diabetes and



cardiovascular disease," said St-Onge.

The randomized, crossover study involved 26 adults - 13 men and 13 women - who had a normal weight and an average age of 35 years. During 5 nights in a sleep lab, participants spent 9 hours in bed from 10 p.m. to 7 a.m., sleeping for 7 hours and 35 minutes on average per night. Objective sleep data were gathered nightly by polysomnograhy. Sleep data were analyzed from night 3, after 3 days of controlled feeding, and night 5, after one day of ad libitum food intake.

According to the authors, the study suggests that diet-based recommendations might be used to improve sleep in those with poor sleep quality. However, future studies are needed to evaluate this relationship.

**More information:** "Fiber and Saturated Fat Are Associated with Sleep Arousals and Slow Wave Sleep," <u>dx.doi.org/10.5664/jcsm.5384</u>

## Provided by American Academy of Sleep Medicine

Citation: Study suggests that what you eat can influence how you sleep (2016, January 14) retrieved 5 May 2024 from

https://medicalxpress.com/news/2016-01-study-suggests-that-what-you.html

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