

## Light treatment improves sleep, depression, agitation in Alzheimer's

June 4 2014

A new study suggests that light treatment tailored to increase circadian stimulation during the day may improve sleep, depression and agitation in people with Alzheimer's disease and related dementia.

Results show that exposure to the tailored light treatment during daytime hours for four weeks significantly increased <u>sleep quality</u>, efficiency and total sleep duration. It also significantly reduced scores for depression and agitation.

"It is a simple, inexpensive, non-pharmacological treatment to improve sleep and behavior in Alzheimer's disease and <u>dementia patients</u>," said principal investigator Mariana Figueiro, PhD, associate professor and Light and Health program director of the Lighting Research Center at Rensselaer Polytechnic Institute in Troy, New York. "The improvements we saw in agitation and depression were very impressive."

The research abstract was published recently in an online supplement of the journal *Sleep* and was presented Monday, June 2, in Minneapolis, Minnesota, at SLEEP 2014, the 28th annual meeting of the Associated Professional Sleep Societies LLC.

The pilot study involved 14 nursing home patients with Alzheimer's disease and related dementia. A light source producing low levels of 300 to 400 lux of a bluish-white <u>light</u> with a color temperature of more than 9000 K was installed in the residents' rooms. Light exposure occurred during daytime hours for a period of four weeks. Light-dark and activity-



rest patterns were collected using a calibrated instrument prior to and after the lighting intervention. Measures of sleep quality, depression and agitation also were collected using standardized questionnaires.

Figueiro added that the improvement in <u>sleep</u> quality also was associated with other noticeable behavioral changes.

"Subjective reports by the nursing staff were that the patients were calmer, eating better and their overall behavior was more manageable," she said.

According to the Centers for Disease Control and Prevention, Alzheimer's disease is the most common form of dementia among older adults, affecting as many as five million Americans.

## Provided by American Academy of Sleep Medicine

Citation: Light treatment improves sleep, depression, agitation in Alzheimer's (2014, June 4) retrieved 9 April 2024 from

https://medicalxpress.com/news/2014-06-treatment-depression-agitation-alzheimer.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.