

## Sleep apnea treatment may reverse unhealthy brain changes

## September 15 2015



In small study, continuous positive airway pressure reduced nerve activity that causes heart ills.

(HealthDay)—Sleep apnea treatment may reverse changes in brain stem activity associated with increased risk of heart disease, a new study suggests.

The findings "highlight the effectiveness of CPAP treatment in reducing one of the most significant health issues [heart disease] associated with obstructive sleep apnea," the researchers concluded. CPAP stands for continuous positive airway pressure.

Previous research suggests that people with obstructive sleep apnea have greater activity in nerves associated with stress response, which can lead to <a href="https://doi.org/10.2016/journal.org/10.2016/jo



In this small study, published recently in the *Journal of Neurophysiology*, Australian researchers found that CPAP treatment reduced that <u>nerve</u> <u>activity</u> by restoring normal brain stem function.

The study included 13 sleep apnea patients who were assessed before and after six months of CPAP treatment.

"These data strongly suggest that functional and anatomical changes within the brain stem, which we believe underlie the elevated sympathetic activity in individuals with untreated obstructive sleep apnea, can be restored to healthy levels by CPAP treatment," the University of Sydney researchers wrote.

In <u>obstructive sleep apnea</u>, muscles in the airway collapse during sleep and block breathing. A CPAP device keeps airways open by delivering a steady flow of air while patients sleep.

**More information:** The U.S. National Heart, Lung, and Blood Institute has more about CPAP.

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Citation: Sleep apnea treatment may reverse unhealthy brain changes (2015, September 15) retrieved 2 May 2023 from

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