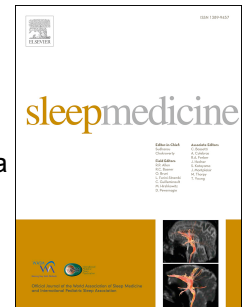


# Accepted Manuscript

Changes in subcortical shape and cognitive function in patients with chronic insomnia

Dae Lim Koo, Jeong-Hyeon Shin, Jae-Sung Lim, Joon-Kyung Seong, Eun Yeon Joo



PII: S1389-9457(17)30177-6

DOI: [10.1016/j.sleep.2017.04.002](https://doi.org/10.1016/j.sleep.2017.04.002)

Reference: SLEEP 3372

To appear in: *Sleep Medicine*

Received Date: 26 January 2017

Revised Date: 28 March 2017

Accepted Date: 4 April 2017

Please cite this article as: Koo DL, Shin J-H, Lim J-S, Seong J-K, Joo EY, Changes in subcortical shape and cognitive function in patients with chronic insomnia, *Sleep Medicine* (2017), doi: 10.1016/j.sleep.2017.04.002.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Changes in subcortical shape and cognitive function in patients with chronic insomnia**

**Dae Lim Koo<sup>a</sup>, Jeong-Hyeon Shin<sup>b</sup>, Jae-Sung Lim<sup>c</sup>, Joon-Kyung Seong<sup>d</sup>, Eun Yeon Joo<sup>e,f,\*</sup>**

<sup>a</sup> *Department of Neurology, Seoul National University Boramae Hospital, Seoul, South Korea*

<sup>b</sup> *Department of Bio-convergence Engineering, Korea University, Seoul, South Korea*

<sup>c</sup> *Department of Neurology, Hallym University Sacred Heart Hospital, Anyang, South Korea*

<sup>d</sup> *School of Biomedical Engineering, Korea University, Seoul, South Korea*

<sup>e</sup> *Department of Neurology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Samsung Biomedical Research Institute, Seoul, South Korea*

<sup>f</sup> *Department of Health Sciences and Technology, SAIHST, Sungkyunkwan University, Seoul, South Korea*

**ARTICLE INFO**

*Article history:*

Received

Download English Version:

<https://daneshyari.com/en/article/5643611>

Download Persian Version:

<https://daneshyari.com/article/5643611>

[Daneshyari.com](https://daneshyari.com)