

# Accepted Manuscript

Further evidences for sleep instability and impaired spindle-delta dynamics in schizophrenia: a whole-night polysomnography study with neuroloop-gain and sleep-cycle analysis

Arun Sasidharan, Sunil Kumar, Ajay Kumar Nair, Ammu Lukose, Vrinda Marigowda, John P. John, Bindu M. Kutty

PII: S1389-9457(17)30088-6

DOI: [10.1016/j.sleep.2017.02.009](https://doi.org/10.1016/j.sleep.2017.02.009)

Reference: SLEEP 3315

To appear in: *Sleep Medicine*

Received Date: 30 October 2016

Revised Date: 3 February 2017

Accepted Date: 9 February 2017

Please cite this article as: Sasidharan A, Kumar S, Nair AK, Lukose A, Marigowda V, John JP, Kutty BM, Further evidences for sleep instability and impaired spindle-delta dynamics in schizophrenia: a whole-night polysomnography study with neuroloop-gain and sleep-cycle analysis, *Sleep Medicine* (2017), doi: 10.1016/j.sleep.2017.02.009.

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.



## Further evidences for sleep instability and impaired spindle-delta dynamics in schizophrenia: a whole-night polysomnography study with neuroloop-gain and sleep-cycle analysis<sup>†</sup>

Arun Sasidharan<sup>a,b</sup>, Sunil Kumar<sup>b,c</sup>, Ajay Kumar Nair<sup>a,b</sup>, Ammu Lukose<sup>b,c</sup>, Vrinda Marigowda<sup>a</sup>, John P John<sup>b,c,d</sup>, Bindu M Kutty<sup>a,\*</sup>

<sup>a</sup> Department of Neurophysiology, <sup>b</sup> Multimodal Brain Image Analysis Laboratory (MBIAL), <sup>c</sup> Department of Psychiatry, <sup>d</sup> Department of Clinical Neurosciences, National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, India

\* Corresponding author. Department of Neurophysiology, National Institute of Mental Health and Neuro Sciences (NIMHANS), Hosur Road, Bengaluru-560029, Karnataka, India. Tel.: +91 80 2699 5170  
E-mail address: bindu.nimhans@gmail.com (B.M. Kutty).

<sup>†</sup>Part of the data from this study was presented as a poster abstract entitled *Altered sleep stage 2 dynamics and disrupted sleep among patients with recent-onset Schizophrenia: a whole night polysomnography study* for the 8th Congress of Asian Sleep Research Society (ASRS-2014) 22–24 September 2014 organized by the Indian Society for Sleep Research (ISSR) held at Thiruvananthapuram, Kerala, India.

**Running title:** Altered sleep-cycle dynamics in schizophrenia

### ABSTRACT

---

*Objective:* Sleep offers a unique window into the brain dysfunctions in schizophrenia. Many past sleep studies have reported abnormalities in both macro-sleep architecture (like increased awakenings) as well as micro-sleep-architecture (like spindle deficits) in patients with schizophrenia (PSZ). The present study attempts to replicate previous reports of macro- and micro-sleep-architectural abnormalities in schizophrenia. In addition, the study also examined sleep-stage changes and spindle-delta dynamics across sleep-cycles to provide

Download English Version:

<https://daneshyari.com/en/article/5643520>

Download Persian Version:

<https://daneshyari.com/article/5643520>

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