

Accepted Manuscript

Dexmedetomidine promotes biomimetic non-rapid eye movement stage 3 sleep in humans: A pilot study

Oluwaseun Akeju, Lauren E. Hobbs, Lei Gao, Sara M. Burns, Kara J. Pavone, George S. Plummer, Elisa C. Walsh, Tim T. Houle, Kim Seong-Eun, Matt T. Bianchi, Jeffrey M. Ellenbogen, Emery N. Brown

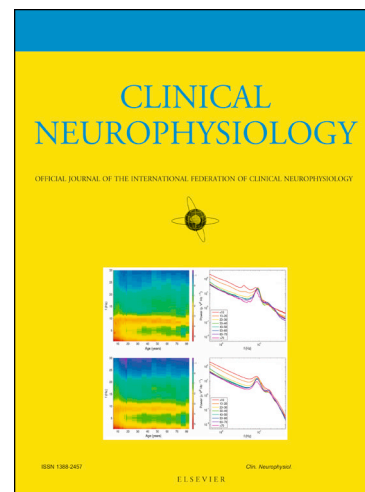
PII: S1388-2457(17)31083-0
DOI: <https://doi.org/10.1016/j.clinph.2017.10.005>
Reference: CLINPH 2008293

To appear in: *Clinical Neurophysiology*

Accepted Date: 11 October 2017

Please cite this article as: Akeju, O., Hobbs, L.E., Gao, L., Burns, S.M., Pavone, K.J., Plummer, G.S., Walsh, E.C., Houle, T.T., Seong-Eun, K., Bianchi, M.T., Ellenbogen, J.M., Brown, E.N., Dexmedetomidine promotes biomimetic non-rapid eye movement stage 3 sleep in humans: A pilot study, *Clinical Neurophysiology* (2017), doi: <https://doi.org/10.1016/j.clinph.2017.10.005>

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.



Dexmedetomidine promotes biomimetic non-rapid eye movement stage 3 sleep in humans: A pilot study

Oluwaseun Akeju, M.D., M.M.Sc.,^{1,*} Lauren E. Hobbs, M.S.,¹ Lei Gao, M.D.,¹ Sara M. Burns, M.S.,¹ Kara J. Pavone, B.S., B.S.N.,^{1,2} George S. Plummer, B.S.,¹ Elisa C. Walsh, B.S.,¹ Tim T. Houle, Ph.D.,¹ Kim Seong-Eun, Ph.D.,^{3,4} Matt T. Bianchi, M.D., Ph.D.,⁵ Jeffrey M. Ellenbogen, M.D., M.M.Sc.,⁶ and Emery N. Brown, M.D., Ph.D.^{1,3}

¹ Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA

² School of Nursing, University of Pennsylvania, Philadelphia, PA, USA

³ Department of Brain and Cognitive Science, Massachusetts Institute of Technology, Cambridge, MA, USA

⁴ Department of Electronics and Control Engineering, Hanbat National University, Daejeon, Korea

⁵ Department of Neurology, Massachusetts General Hospital, Boston, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA

⁶ Department of Neurology, Johns Hopkins University, Baltimore, MA, USA

***Corresponding Author:**

Oluwaseun Akeju
55 Fruit Street
Grey/Jackson, Rm. 434
Boston, MA 02114, USA
Tel.: +1-617-724-7200
E-mail: oluwaseun.akeju@mgh.harvard.edu

Keywords:

Dexmedetomidine; N3 sleep; biomimetic sleep; zolpidem; sedation.

Download English Version:

<https://daneshyari.com/en/article/8682841>

Download Persian Version:

<https://daneshyari.com/article/8682841>

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