Accepted Manuscript

Title: Investigating the effects of nitrous oxide sedation on frontal-parietal interactions

Authors: Ryu Ji-Ho, Pil-Jong Kim, Hong-Gee Kim, Yong-Seo Koo, Teo Jeon Shin



 PII:
 S0304-3940(17)30337-3

 DOI:
 http://dx.doi.org/doi:10.1016/j.neulet.2017.04.036

 Reference:
 NSL 32777

 To appear in:
 Neuroscience Letters

 Received date:
 30-12-2016

 Revised date:
 16-4-2017

 Accepted date:
 19-4-2017

Please cite this article as: Ryu Ji-Ho, Pil-Jong Kim, Hong-Gee Kim, Yong-Seo Koo, Teo Jeon Shin, Investigating the effects of nitrous oxide sedation on frontal-parietal interactions, Neuroscience Lettershttp://dx.doi.org/10.1016/j.neulet.2017.04.036

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.

ACCEPTED MANUSCRIPT

Investigating the effects of nitrous oxide sedation on frontal-parietal interactions

Ryu Ji-Ho^{a*}, Pil-Jong Kim^{b*}, Hong-Gee Kim^b, Yong-Seo Koo^c, Teo Jeon Shin^d

a. Post-graduate student, School of Dentistry, Seoul National University, Seoul, Korea

b. Biomedical Knowledge Engineering Laboratory, School of Dentistry, Seoul National University,

Seoul, Korea

c. Department of Neurology, Korea University College of Medicine, Seoul, Korea

d. Department of Pediatric Dentistry and Dental Research Institute, School of Dentistry, Seoul

National University, Seoul, Korea

Address Correspondence and Reprint Requests to:

Teo Jeon Shin, MD, PhD

Department of Pediatric Dentistry

Seoul National University School of Dentistry

28 Yeongeon-dong Jongno-gu, Seoul 110-768, Republic of Korea

Telephone: +82-2-2072-2607

FAX: +82-2-744-3599

E-mail: snmc94@snu.ac.kr

* These authors equally contributed to this study

Conflict of Interest

The authors have no conflicts of interest to declare.

Highlights

- Nitrous oxide led to a decrease in connectivity in the parietal-frontal direction.
- However, nitrous oxide did not lead to a decrease in connectivity in the frontal to parietal direction.
- The changes of parietal-frontal connectivity were prominent at theta, alpha, and beta frequency bands.

Abstract

Although functional connectivity has received considerable attention in the study of consciousness,

few studies have investigated functional connectivity limited to the sedated state where consciousness

is maintained but impaired. The aim of the present study was to investigate changes in functional

Download English Version:

https://daneshyari.com/en/article/5738192

Download Persian Version:

https://daneshyari.com/article/5738192

Daneshyari.com