

Accepted Manuscript

Prone versus sitting position in neurosurgery – differences in patients' hemodynamic management

Teemu Luostarinen, MD, PhD, Ann-Christine Lindroos, MD, PhD, T. Niiya, MD, PhD, M. Silvasti-Lundell, MD, PhD, Alexey Schramko, MD, PhD, Juha Hernesniemi, MD, PhD, Tarja Randell, MD, PhD, Tomi Niemi, MD, PhD

PII: S1878-8750(16)30991-3

DOI: [10.1016/j.wneu.2016.10.005](https://doi.org/10.1016/j.wneu.2016.10.005)

Reference: WNEU 4673

To appear in: *World Neurosurgery*

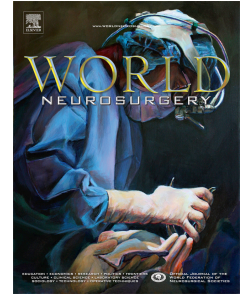
Received Date: 11 April 2016

Revised Date: 28 September 2016

Accepted Date: 1 October 2016

Please cite this article as: Luostarinen T, Lindroos A-C, Niiya T, Silvasti-Lundell M, Schramko A, Hernesniemi J, Randell T, Niemi T, Prone versus sitting position in neurosurgery – differences in patients' hemodynamic management, *World Neurosurgery* (2016), doi: 10.1016/j.wneu.2016.10.005.

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.



Prone versus sitting position in neurosurgery – differences in patients' hemodynamic management

Teemu Luostarinen* ¹ MD, PhD, Ann-Christine Lindroos* ¹ MD, PhD, T. Niiya² MD, PhD, M. Silvasti-Lundell¹ MD, PhD, Alexey Schramko¹ MD, PhD, Juha Hernesniemi³ MD, PhD, Tarja Randell¹ MD, PhD, Tomi Niemi¹ MD, PhD

*Equal contribution

1. Division of Anesthesiology, Department of Anesthesiology, Intensive Care and Pain Medicine, University of Helsinki and Helsinki University Hospital, Helsinki, Finland, PO 266, FI-00029 Helsinki, Finland
2. Department of Anesthesiology, Sapporo Medical University School of Medicine, Sapporo, Japan, S1 W17, Chuo-ku, Sapporo, 060-8556, Japan
3. Department of Neurosurgery, University of Helsinki and Helsinki University Hospital, Helsinki, Finland, PO 266, FI-00029 Helsinki, Finland

Corresponding author:

Teemu Luostarinen

Email: teemu.luostarinen@hus.fi Tel: +350504279131 Fax: +358947187719

Division of Anesthesiology, Department of Anesthesiology, Intensive Care and Pain Medicine, University of Helsinki and Helsinki University Hospital, Helsinki, Finland
PO 266, FI-00029 Helsinki, Finland

Key words: neurosurgery, sitting position, prone position, hemodynamics, fluid administration

Download English Version:

<https://daneshyari.com/en/article/5634720>

Download Persian Version:

<https://daneshyari.com/article/5634720>

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