## Accepted Manuscript

Title: Repetitive versus standard tactile stimulation of preterm infants at birth – A randomized controlled trial

Authors: Janneke Dekker, Stuart B Hooper, Tessa Martherus, Sophie J.E. Cramer, Nan van Geloven, Arjan Bte Pas

PII: S0300-9572(18)30140-0

DOI: https://doi.org/10.1016/j.resuscitation.2018.03.030

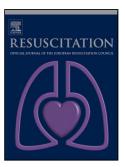
Reference: RESUS 7548

To appear in: Resuscitation

Received date: 11-11-2017 Revised date: 19-3-2018 Accepted date: 22-3-2018

Please cite this article as: Dekker Janneke, Hooper Stuart B, Martherus Tessa, Cramer Sophie JE, van Geloven Nan, Pas Arjan Bte.Repetitive versus standard tactile stimulation of preterm infants at birth – A randomized controlled trial. *Resuscitation* https://doi.org/10.1016/j.resuscitation.2018.03.030

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.



Repetitive versus standard tactile stimulation of preterm infants at birth - a randomized

controlled trial

Janneke Dekker<sup>1</sup>, MSc; Stuart B Hooper<sup>2</sup>, PhD; Tessa Martherus<sup>1</sup>, BSc; Sophie JE Cramer<sup>3</sup>, MSc; Nan

van Geloven<sup>4</sup>, MSc PhD; Arjan B te Pas<sup>1</sup>, MD PhD

<sup>1</sup>Division of Neonatology, Department of Pediatrics, Leiden University Medical Center,

Leiden, the Netherlands

<sup>2</sup>The Ritchie Center, MIMR-PHI Institute of Medical Research, Melbourne, Australia

<sup>3</sup>Department of Instrumental Affairs, Leiden University Medical Center, Leiden, the

Netherlands

<sup>4</sup>Department of Medical Statistics and Bio-informatics, Leiden University Medical Center,

Leiden, the Netherlands

Corresponding author: Janneke Dekker, Postzone J6-S, room J6-182, Willem-Alexander Pediatric

Hospital, Leiden University Medical Center, Albinusdreef 2, 2333 ZA Leiden, the Netherlands,

j.dekker@lumc.nl, telephone +31715262859, fax +31715266897

Short title: Tactile stimulation of preterm infants at birth

Word count: 2987 words

Word count abstract: 250 words

**ABSTRACT** 

Aim To evaluate the direct effect of repetitive tactile stimulation on breathing effort of

preterm infants at birth.

Methods This randomized controlled trial compared the effect of repetitive stimulation on

respiratory effort during the first 4 minutes after birth with standard stimulation based on clinical

indication in preterm infants with a gestational age of 27-32 weeks. All details of the stimulation

performed were noted. The main study parameter measured was respiratory minute volume, other

study parameters assessed measures of respiratory effort; tidal volumes, rate of rise to maximum tidal

volumes, percentage of recruitment breaths, and oxygenation of the infant.

**Results** There was no significant difference in respiratory minute volume in the repetitive

stimulation group when compared to the standard group. Oxygen saturation was significantly higher

 $(87.6 \pm 3.3\% \text{ vs } 81.7 \pm 8.7\%, p=0.01)$  while the amount of FiO<sub>2</sub> given during transport to the NICU was

lower (28.2 (22.8 - 35.0)% vs 33.6 (29.4 - 44.1)%, p=0.04). There was no significant difference in

## Download English Version:

## https://daneshyari.com/en/article/8675597

Download Persian Version:

https://daneshyari.com/article/8675597

<u>Daneshyari.com</u>