## Accepted Manuscript

## Correspondence

Nasal Capnography During Remifentanil Patient-controlled Analgesia In Labour

A. Messmer, D. Ishak

PII:	S0959-289X(17)30003-1
DOI:	http://dx.doi.org/10.1016/j.ijoa.2017.03.006
Reference:	YIJOA 2551
To appear in:	International Journal of Obstetric Anesthesia
Received Date: Accepted Date:	23 January 2017 10 March 2017



Please cite this article as: Messmer, A., Ishak, D., Nasal Capnography During Remifentanil Patient-controlled Analgesia In Labour, *International Journal of Obstetric Anesthesia* (2017), doi: http://dx.doi.org/10.1016/j.ijoa. 2017.03.006

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**

- 1 Nasal Capnography During Remifentanil Patient-controlled Analgesia In 2 Labour 3 4 Messmer A, Ishak D 5 Royal Hobart Hospital, Hobart, Tasmania, Australia 6 7 8 Respiratory depression is one of the primary concerns associated with 9 remifentanil patient controlled analgesia (PCA) use in labour. Capnography monitoring has been recommended as a routine with postoperative PCA<sup>1</sup> and 10 was suggested for use with remiferitanil PCA<sup>2</sup> because hypoventilation or 11 apnoea generally precede oxygen desaturation<sup>3</sup>. 12 13 In a study that did not receive a grant from funding agencies in the public, 14 15 commercial, or not-for-profit sectors; and following local Ethics Committee 16 approval, we initiated nasal end-tidal carbon dioxide (FTCO<sub>2</sub>) monitoring, in 17 addition to oxyhaemoglobin saturation via pulse oximetry (SpO<sub>2</sub>), in order to 18 assist midwives with respiratory monitoring during use of remifertanil PCA. 19 We used a bi-aperture nasal cannula (Bluepoint Medical, Selmsdorf, 20 Germany), whereby each nasal prong is divided into two channels, one for 21 sampling CO<sub>2</sub> expired through the nose and one for delivering oxygen. A 22 capnogram was displayed on the same screen as the pulse oximetry 23 readings. All midwives received individual education about the physiological 24 basis of waveform capnography. 25 26 The remifentanil PCA protocol was a 20 mcg bolus, delivered at 100 mL/h, 27 with a 2 minute lockout interval. If analgesia proved inadequate, the bolus 28 dose could be increased up to 40 mcg. Low flow oxygen was administered via 29 the nasal prongs at 3 L/min. Pulse oximetry and capnography data were 30 stored and later downloaded for analysis. 31 32 Over an 18 month period 37 women were monitored by nasal capnography. 33 All women successfully completed <sub>ET</sub>CO<sub>2</sub> monitoring for the duration of
- 34 remifentanil PCA. A total of 291 apnoeic episodes (defined as the absence of

Download English Version:

## https://daneshyari.com/en/article/5582122

Download Persian Version:

https://daneshyari.com/article/5582122

Daneshyari.com