Accepted Manuscript

Ketamine and norketamine attenuate oxycodone tolerance markedly less than that of morphine: from behaviour to drug availability

T. Lilius, E. Kangas, M. Niemi, P. Rauhala, E. Kalso

PII: S0007-0912(17)54076-3

DOI: 10.1016/j.bja.2017.11.081

Reference: BJA 68

To appear in: British Journal of Anaesthesia

Received Date: 23 May 2017

Revised Date: 17 August 2017

Accepted Date: 23 August 2017

Please cite this article as: Lilius T, Kangas E, Niemi M, Rauhala P, Kalso E, Ketamine and norketamine attenuate oxycodone tolerance markedly less than that of morphine: from behaviour to drug availability, *British Journal of Anaesthesia* (2017), doi: 10.1016/j.bja.2017.11.081.

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.



Ketamine and norketamine attenuate oxycodone tolerance markedly less than that of morphine: from behaviour to drug availability

T Lilius^{1,2,3}, E Kangas¹, M Niemi^{2,3}, P Rauhala¹, E Kalso^{1,4}

¹Department of Pharmacology, Faculty of Medicine, University of Helsinki, ² Department of Clinical Pharmacology, Faculty of Medicine, University of Helsinki, ³ HUSLAB, Helsinki University Hospital, and ⁴ Department of Anaesthesiology, Intensive Care Medicine, and Pain Medicine, Pain Clinic, Helsinki University Hospital and University of Helsinki, Finland

Corresponding author email: tuomas.lilius@helsinki.fi

Running title: Oxycodone tolerance and ketamine

Editor's Key Points

- The effect of ketamine and its metabolite norketamine on oxycodone tolerance is unclear although effects on morphine tolerance are known
- Rats tolerant to morphine or oxycodone tolerance were given acute doses of ketamine or norketamine
- Ketamine and norketamine reduced morphine and to a lesser extent, oxycodone tolerance, associated with decreased brian morphine but not oxycodone levels
- Ketamine but not norketamine affected motor co-ordination

Download English Version:

https://daneshyari.com/en/article/8929764

Download Persian Version:

https://daneshyari.com/article/8929764

Daneshyari.com