

Accepted Manuscript

Adverse reactions to fentanyl transdermal patches in calves: a preliminary clinical and pharmacokinetic study

Joe S. Smith, Jonathon P. Mochel, David A. Borts, Kerrie A. Lewis, Johann F. Coetzee

PII: S1467-2987(18)30056-4

DOI: [10.1016/j.vaa.2018.02.009](https://doi.org/10.1016/j.vaa.2018.02.009)

Reference: VAA 255

To appear in: *Veterinary Anaesthesia and Analgesia*

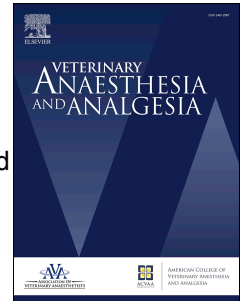
Received Date: 23 October 2017

Revised Date: 18 February 2018

Accepted Date: 21 February 2018

Please cite this article as: Smith JS, Mochel JP, Borts DA, Lewis KA, Coetzee JF, Adverse reactions to fentanyl transdermal patches in calves: a preliminary clinical and pharmacokinetic study, *Veterinary Anaesthesia and Analgesia* (2018), doi: 10.1016/j.vaa.2018.02.009.

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.



SHORT COMMUNICATION

Running head (Authors): *JS Smith et al.*

Running head (short title): Adverse reaction in calves to fentanyl patches

Adverse reactions to fentanyl transdermal patches in calves: a preliminary clinical and pharmacokinetic study

Joe S Smith^a, Jonathon P Mochel^a, David A Borts^a, Kerrie A Lewis^b & Johann F Coetzee^c

^aVeterinary Diagnostic and Production Animal Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA, USA

^bDepartment of Small Animal Clinical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK, Canada

^cAnatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS, USA

Correspondence: Joe S Smith, 2462 Lloyd Vet Med, Ames, IA 50011, USA. E-mail:

jss303@iastate.edu

Abstract

Objective To describe adverse reactions and measure plasma fentanyl concentrations in calves following administration of a fentanyl transdermal patch (FTP).

Study design Prospective experimental clinical study.

Animals Six female Holstein calves and one male Angus calf. Four calves were healthy experimental animals and three calves were clinical patients.

Download English Version:

<https://daneshyari.com/en/article/8919669>

Download Persian Version:

<https://daneshyari.com/article/8919669>

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