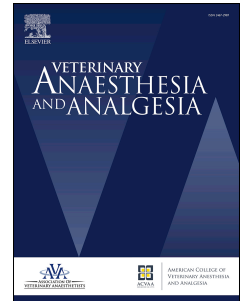


# Accepted Manuscript

Pharmacokinetics of alfaxalone infusions, context-sensitive half-time and recovery times in male neutered cats

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1 RESEARCH PAPER

2 Running head (Authors): *BH Pypendop*

3 Running head (short title): Alfaxalone infusion pharmacokinetics in cats

4 **Pharmacokinetics of alfaxalone infusions, context-sensitive half-time and recovery times in**  
5 **male neutered cats**

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14

15

16 **Abstract**

17 **Objectives** To determine the context-sensitive half-time of alfaxalone following intravenous  
18 infusions of various durations. To estimate the time necessary for plasma concentration to  
19 decrease by up to 95%.

20 **Study design** Prospective randomized and simulation studies.

21 **Animals** A group of six 1-year-old male castrated research cats.

22 **Methods** Cats were instrumented with catheters in a jugular and a medial saphenous vein.

23 Alfaxalone was administered using a target-controlled infusion system, to target a plasma

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