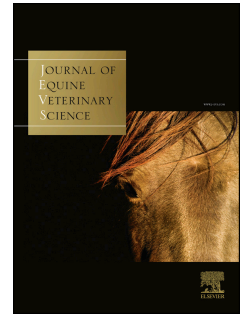


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Two regimes of perioperative antimicrobial prophylaxis for equine castration: Clinical findings, acute-phase proteins, and bacterial cultures

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1 **Two regimes of perioperative antimicrobial prophylaxis for**
2 **equine castration: Clinical findings, acute-phase proteins,**
3 **and bacterial cultures**

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12

13 **Abstract**

14 A Perioperative antibiotic for equine castration with second intention healing is, controversial because
15 the necessity is unclear and antimicrobial use promotes the selection of resistant bacteria.
16 Information about different regimes for perioperative antimicrobial prophylaxis in equine castration
17 is sparse. Goal of this study was to compare clinical findings, acute-phase proteins, and bacterial
18 cultures in horses undergoing castration, treated with an intravenous single administration of penicillin
19 G sodium (1x Pen group) or a three-day course of daily intramuscular procaine penicillin (3x Pen
20 group). Forty-eight stallions were castrated under general anesthesia using a closed technique, with
21 second intention healing. Serum amyloid A (SAA) and fibrinogen were measured on day 0, 3 and 8.
22 Body temperature, wound swelling, and drainage were recorded daily over 10 days. Bacterial swabs
23 of the wound were taken on day 0 and 3. Scrotal swelling ($p=0.032$), amount of drainage from the
24 wound ($p=0.039$), and body temperature ($p=0.013$) on day 8 after castration were significantly higher

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