

A COMPARISON OF EPIDURAL ANAESTHESIA WITH LIGNOCAINE, BUPIVACAINE AND LIGNOCAINE IBUPIVACAINE MIXTURE IN DOGS.

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ABSTRACT

A mixture of 2% lignocaine (LIG) and 0.5% bupivacaine (BUP), at respective dose rates of 2.9mg/kg and 1 µg/kg, was compared to LIG (5.7mg/kg) and BUP (2mg/kg) for lumbosacral epidural anaesthesia in five awake dogs. Each dog received each treatment regimen randomly at one week intervals. Associated changes in heart rate (HR), mean arterial pressure (MAP), respiratory frequency (RF) and rectal temperature were also measured. Times to recumbency with BUP (3.0 ± 0.8 min) and lignocaine/bupivacaine mixture (LBM) (4.6 ± 1.0 min) were longer than with LIG (1.8 ± 0.4 min). There were no significant differences in onset of analgesia with LIG (5.0 ± 0.0 min), BUP (6.0 ± 1.0 min) and LBM (6.4 ± 1.4 min). Duration of analgesia was longest with LBM (136 ± 35.9 min), shortest with LIG (87.0 ± 14.3 min) and intermediate with BUP (107.0 ± 43.6 min). Time to standing with BUP (184 ± 1.5 min) was longer than with either LIG (49.8 ± 4.0 min) or LBM (50.8 ± 13.9 min). There were no significant alterations in HR, MAP, RF and rectal temperature. The results indicated that the drug mixture is the best choice for use in dogs undergoing long duration procedures.

Keywords: