A COMPARISON OF EPIDURAL ANAESTHESIA WITH XYLAZINE, BUPIVACAINE AND BUPIVACAINE/XYLAZINE MIXTURE IN WEST AFRICA DWARF GOATS.

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ABSTRACT

Epidurally administered 2% xylazine (0.5mg/kg), bupivacaine (1.7mglkg), and bupivacaine/xylazine mixture (0.85/0.25mg/kg) were assessed in 5 West African Dwarf (WAD) goats with regard to: time to recumbency, onset of analgesia, duration on analgesia, duration of recumbency and time to standing.

Times to recumbency were found to be 7.0 ± 2.0 min for xylazine, 3.8 ± 0.8 min for bupivacaine and 6.2 ± 1.3 min for bupivacaine/xylazine mixture. Onsets of analgesia with xylazine, bupivacine and bupivacaine/xylazine mixture were respectively 8.4 ± 2.7 min, 10.8 ± 3.5 minl and 4.8 ± 2.1 min. Duration of analgesia was 148.0 ± 23.1 min with xylaziue, 90.0 ± 2.15 min for bupivacaine and 139.0 ± 57.6 min with bupivucaine/xylazine mixture. Duration of recumbency was 117.0 ± 17.2 min with xylazine 174.2 ± 62.3 min with bupivacaine, and 138.0 ± 63.6 rnin with bupivacaine/xylnzine mixture. Times to standing were 1.2 ± 0.7 min with xylazine, 63.2 ± 39.2 min with bupivacaine and 45.4 ± 39.0 min with bupicacaine/xylazine mixture. Lower cardiac and respiratory rates were produced by epidural xylazine and bupivacuine/xylazine mixture than by bupivacaine alone.

It was concluded that whilst prolonged recumbency makes bupivacaine unsuitable for use in the ruminant; bupivacaine/xylazine mixture seems to have no advantage over the use of xylazine alone, considering their similar duration of analgesia and cardio depressant effect. In fact, its fast recovery would appear to make xylazine a better choice.

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