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Original Article**The antimicrobial activity of bupivacaine, lidocaine and mepivacaine against equine pathogens: An investigation of 40 bacterial isolates**D.M.T. Adler ^{a,*}, P. Damborg ^b, D. R. Verwilghen ^a^a *Department of Veterinary Clinical Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Højbakkegaard Allé 5, DK-2630 Taastrup, Denmark*^b *Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Stigbøjlen 4, DK-1870 Frederiksberg C, Denmark*

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- Local anaesthetics present in vitro antimicrobial activity against common equine pathogens.
- Local anaesthetics have antimicrobial activity against both Gram-positive and Gram-negative bacteria.
- Lidocaine has the most potent antimicrobial effect followed by bupivacaine and mepivacaine.
- The antimicrobial effect questions the need for routine prophylactic antibiotics during diagnostic analgesia in horses.

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