

Impact of dehorning and disbudding on the well-being of calves

Braz M, Carreira M, Carolino N, Rodrigues T, Stilwell G, 2012. Effect of rectal or intravenous tramadol on the incidence of pain-related behaviour after disbudding calves with caustic paste. Applied Animal Behaviour Science 136, 20-25.

Doherty TJ, Kattesh HG, Adcock RJ, Welborn MG, Saxton AM, Morrow JL, Dailey JW, 2007. Effects of a concentrated lidocaine solution on the acute phase stress response to dehorning in dairy calves. Journal of Dairy Science 90, 4232-4239.

Faulkner PM, Weary DM, 2000. Reducing pain after dehorning in dairy calves. Journal of Dairy Science 83, 2037-2041.

Gottardo F, Nalon E, Contiero B, Normando S, Dalvit P, Cozzi G, 2011. The dehorning of dairy calves: practices and opinions of 639 farmers. Journal of Dairy Science 94, 5724-5734.

Graf B, Senn M, 1999. Behavioural and physiological responses of calves to dehorning by heat cauterization with or without local anaesthesia. Applied Animal Behaviour Science 62, 153-171.

Heinrich A, Duffield TF, Lissemore KD, Millman ST, 2010. The effect of meloxicam on behaviour and pain sensitivity of dairy calves following cautery dehorning with a local anesthetic. Journal of Dairy Science 93, 2450-2457.

Heinrich A, Duffield TF, Lissemore KD, Squires EJ, Millman ST, 2009. The impact of meloxicam on postsurgical stress associated with cautery dehorning. Journal of Dairy Science 92, 540-547.

McMeekan CM, Stafford KJ, Mellor DJ, Bruce RA, Ward RN, Gregory NG, 1998. Effects of regional analgesia and/or a non-steroidal anti-inflammatory analgesic on the acute

cortisol response to dehorning in calves. Research in Veterinary Science 64, 147-150.

Mellor DJ, Diesch TJ, 2006. Onset of sentience: the potential for suffering in fetal and newborn farm animals. Applied Animal Behaviour Science 100, 48-57.

Scientific Veterinary Committee, 1995. Report on the Welfare of Calves Brussels: European Commission.

Stafford KJ, Mellor DJ, 2005. Dehorning and disbudding distress and its alleviation in calves. The Veterinary Journal 169, 337-349.

Stafford KJ, Mellor DJ, 2011. Addressing the pain associated with disbudding and dehorning in cattle. Applied Animal Behaviour Science 135, 226-231.

Stilwell G, Carvalho RC, Carolino N, Lima MS, Broom DM, 2010. Effect of hot-iron disbudding on behaviour and plasma cortisol of calves sedated with xylazine. Research in Veterinary Science 88, 188-193.

Stilwell G, Carvalho RC, Lima MS, Broom DM, 2009. Effect of caustic paste disbudding, using local anaesthesia with and without analgesia, on behaviour and cortisol of calves. Applied Animal Behaviour Science 116, 35-44.

Stilwell G, Lima MS, Broom DM, 2008. Comparing plasma cortisol and behaviour of calves dehorned with caustic paste after non-steroidal-anti-inflammatory analgesia. Livestock Science 119, 63-69.

Stilwell G, Lima MS, Carvalho RC, Broom DM, 2012. Effect of hot-iron disbudding, using regional anaesthesia with and without carprofen, on cortisol and behaviour of calves. Research in Veterinary Science 92, 338-341.

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