



FAWEC

FARM ANIMAL
WELFARE
EDUCATION CENTER

Bienestar de las vacas de leche durante el parto

Barrier AC, Haskell MJ, Macrae AI, Dwyer CM, 2012. Parturition progress and behaviours in dairy cows with calving difficulty. *Applied Animal Behaviour Science* 139, 209-217.

Cook NB, Nordlund KV, 2004. Behavioral needs of the transition cow and considerations for special needs facility design. *Veterinary Clinics of North America: Food Animal Practice* 20, 495-520.

Grummer RR, Mashek DG, Hayirli A, 2004. Dry matter intake and energy balance in the transition period. *Veterinary Clinics of North America: Food Animal Practice* 20, 447-470.

Huzzey JM, von Keyserlingk MAG, Weary DM, 2005. Changes in feeding, drinking, and standing behavior of dairy cows during the transition period. *Journal of Dairy Science* 88, 2454-2461.

Kolkman I, Aerts S, Vervaecke H, Vicca J, Vandeloock J, de Kruif A, Opsomer, G, Lips D, 2010. Assessment of differences in some indicators of pain in double muscled Belgian Blue cows following naturally calving vs caesarean section. *Reproduction in Domestic Animals* 45, 160-167.

Laven R, Chambers P, Stafford K, 2012. Using non-steroidal anti-inflammatory drugs around calving: Maximizing comfort, productivity and fertility. *The Veterinary Journal* 192, 8-12.

Lidfors LM, Moran D, Jung J, Jensen P, Castren H, 1994. Behavior at calving and choice of calving place in cattle kept in different environments. *Applied Animal Behaviour Science*

42, 11-28.

Mainau E, Manteca X, 2011. Pain and discomfort caused by parturition in cows and sows. *Applied Animal Behaviour Science* 135, 241-251.

Mee JF, 2004. Managing the dairy cow at calving time. *Veterinary Clinics of North America: Food Animal Practice*, 20: 521-546.

Mee JF, 2008. Prevalence and risk factors for dystocia in dairy cattle: a review. *Veterinary Journal* 176, 93-101.

Proudfoot KL, Huzzey JM, von Keyserlingk, MAG, 2009. The effect of dystocia on the dry matter intake and behavior of Holstein cows. *Journal of Dairy Science* 92, 4937-4944.

Scientific Opinion of the Panel on Animal Health and Animal Welfare, 2009. Scientific opinion on welfare of dairy cows in relation to behaviour, fear and pain based on a risk assessment with special reference to the impact of housing, feeding, management and genetic selection. *The EFSA Journal* 1139, 1-66.

Tenhagen BA, Helmbold A, Heuwieser W, 2007. Effect of various degrees of dystocia in dairy cattle on calf viability, milk production, fertility and culling. *Journal of Veterinary Medicine Series A* 54, 98-102.

von Keyserlingk MAG, Weary DM, 2007. Maternal behaviour in cattle. *Hormones and Behaviour* 52: 106-113.