

Assessment of pain in sheep

AWIN, 2015. Welfare assessment protocol for sheep. DOI: 10.13130/AWIN_SHEEP_2015.

Fitzpatrick J, Scott M, Nolan A, 2006. Assessment of pain and welfare in sheep Small Ruminant Research 62: 55-61.

Gelasakis AI, Mavrogianni VS, Petridis IG, Vasileiou NGC, Fthenakis GC, 2015. Mastitis in sheep – The last 10 years and the future of research. Veterinary Microbiology 181: 136-146.

Gougoulis DA, Kyriazakis I, Fthenakis GC, 2010. Diagnostic significance of behavior changes of sheep: A selected review. Small Ruminant Research 92: 52-56.

Gregory NS, Harris AL, Robinson CR, Dougherty PM, Fuchs PN, Sluka KA, 2013. An overview of animal models of pain: disease models and outcome measures. The Journal of Pain, 14: 1255-1269.

Kaler J, Medley GF, Grogono-Thomas R, Wellington EMH, Calvo-Bado LA, Wassink GJ, King EM, Moore LJ, Russell C, Green LE, 2010. Factors associated with changes of state of foot conformation and lameness in a flock of sheep. Preventive Veterinary Medicine 97: 237-244.

Langford D J, Bailey A L, Chanda M L, Clarke S E, Drummond T E, Echols S, Glick S, Ingrao J, Klassen-Ross T, Lacroix-Fralish M L, Matsumiya L, Sorge R E, Sotocinal S G, Tabaka JM, Wong D, van den Maagdenberg A M J M, Ferrari M D, Craig K D, Mogil J S, 2010. Coding of facial expressions of pain in the laboratory mouse Nature Methods 7: 447–479.

McLennan K M, Rebelo C J B, Corke M J, Holmes M A, Leach M C, Constantino-Casas F, 2016. Development of a facial expression scale using footrot and mastitis as models of pain in sheep Applied Animal Behaviour Science 176: 19-26.

Molony V, Kent J E, McKendrick I J, 2002. Validation of a method for assessment of an acute pain in lambs. Applied Animal Behaviour Science 76: 215–238.

National Research Council, 2009. Recognition and Alleviation of Pain in Laboratory Animals. Washington: The National Academies Press.

Plummer PJ, Schleining JA, 2013. Assessment and Management of Pain in Small Ruminants and Camelids. Veterinary Clinics of North America: Food Animal Practice 29: 185-208.

Stubsjøen SM, Flø AS, Moe RO, Janczak AM, Skjerve E, Valle PS, Zanella AJ, 2009. Exploring non-invasive methods to assess pain in sheep. Physiology & Behavior 98: 640-648.

www.fawec.org - info@fawec.org