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Intraperitoneal lidocaine hydrochloride for prevention of intraperitoneal adhesions following laparoscopic genitourinary tract surgery in ewes

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Adhesion formation involving the genitourinary tract is common following laparoscopic procedures. To evaluate the effectiveness of intraperitoneal lidocaine hydrochloride 1% solution for the prevention of abdominal adhesions, twenty four Santa Ines ewes submitted to laparoscopic ovum pick-up, uterine puncture and local rinsing, were randomly distributed into two groups of 12 animals, according to rinsing solution: normal saline (SG) or 1% lidocaine hydrochloride solution (LG). Laparoscopy for manipulation of the reproductive tract (uterine puncture trauma model and ovum pick-up) was applied. A standard laparoscopic approach using three ports in triangulation was employed. The uterus and ovaries were rinsed at the end of the procedure (using either saline or lidocaine hydrochloride) for removal of blood clots from the ovaries and uterine horn surfaces. Inflammation was assessed postoperatively by plasma fibrinogen, and all animals underwent a second laparoscopic procedure 21 days after surgery for macroscopic assessment of adhesion formation. Four cases of adhesion were observed in each group. The plasma fibrinogen did not differ between groups and among different time points, indicating an absence of systemic inflammation following laparoscopic procedures. There were no significant differences between treatments. Both normal saline and 1% lidocaine hydrochloride were similarly effective in the prevention of adhesion formation.

Keywords:

reproduction; endosurgery; ovary; uterus; laparoscopic; sheep

References:

Arung Willy (2011): Pathophysiology and prevention of postoperative peritoneal adhesions. *World Journal of Gastroenterology*, 17, 4545- <https://doi.org/10.3748/wjg.v17.i41.4545>

Baldassarre H, Karatzas C.N (2004): Advanced assisted reproduction technologies (ART) in goats. *Animal Reproduction Science*, 82-83, 255-266 <https://doi.org/10.1016/j.anireprosci.2004.04.027>

Brocco Marcos Célio, Paulo Danilo Nagib Salomão, Baptista João Florêncio de Abreu, Ferrari Thiago Antunes, Azevedo Thiago Caetano V. de, Silva Alcino Lázaro da (2008): Effects of peritoneal lavage with lidocaine on survival of rats with fecal peritonitis. *Acta Cirurgica Brasileira*, 23, 42-47 <https://doi.org/10.1590/S0102-86502008000100008>

Cordeiro M.F., Teixeira P.P.M., Oliveira M.E.F., Filippo P.A. Di, Dias D.P.M., Beretta C.A.G., Dória R.G.S., Feliciano M.A.R., Coutinho L.N., Vicente W.R.R. (2014): Reproductive efficiency of adult and prepubertal goats subjected to repeated follicular aspiration. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia*, 66, 137-144 <https://doi.org/10.1590/S0102-09352014000100020>

Ewoldt Jennifer M., Anderson David E., Hardy Joanne, Weisbrode Steven E. (2004): Evaluation of a Sheep Laparoscopic Uterine Trauma Model and Repeat Laparoscopy for Evaluation of Adhesion Formation and Prevention with Sodium Carboxymethylcellulose. *Veterinary Surgery*, 33, 668-672 <https://doi.org/10.1111/j.1532-950x.2004.04090.x>

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Gallos George, Jones Dean R., Nasr Samih H., Emala Charles W., Lee H Thomas (2004): Local Anesthetics Reduce Mortality and Protect against Renal and Hepatic Dysfunction in Murine Septic Peritonitis. *Anesthesiology*, 101, 902-911 <https://doi.org/10.1097/00000542-200410000-00015>

Jain NC (1993): *Essentials of Veterinary Hematology*. Lea & Febiger, Philadelphia. 417 pp.

Mariano RSG, Teixeira PPM, Padilha LC, Conceicao MBAM, Silva ASL, Barros FFC, Coutinho LN, Medeiros RM, Coelho CM, Vicente WRR, Silva MAM (2014): Evaluation of serum fibrinogen in prepubertal sheep undergoing laparoscopic Follicular Aspiration. *Reproduction in Domestic Animals* 49, 102.

Meyer DJ, Coles EH, Rich LJ (1995): *Medical Veterinary Laboratory: Interpretation and Diagnosis* (in Portuguese). Roca, Sao Paulo. 47–61.

Pittaway DE, Daniell JF, Maxson WS (1985): Ovarian surgery in an infertility patient as an indication for a short-interval second-look laparoscopy – a preliminary study. *Fertility and Sterility* 44, 611–615.

Stangl M., Kühholzer B., Besenfelder U., Brem G. (1999): Repeated endoscopic ovum pick-up in sheep. *Theriogenology*, 52, 709-716 [https://doi.org/10.1016/S0093-691X\(99\)00164-8](https://doi.org/10.1016/S0093-691X(99)00164-8)

Teixeira P.P.M., Padilha L.C., Oliveira M.E.F., Motheo T.F., da Silva A.S.L., Barros F.F.P.C., Coutinho L.N., Flôres F.N., Lopes M.C.S., Bandarra M.B., Silva M.A.M., Vasconcelos R.O., Rodrigues L.F.S., Vicente W.R.R. (2011): Laparoscopic ovum collection in sheep: Gross and microscopic evaluation of the ovary and influence on oocyte production. *Animal Reproduction Science*, 127, 169-175 <https://doi.org/10.1016/j.anireprosci.2011.08.001>

Teixeira PPM, Padilha LC, Mariano RSG, Coutinho LN, Barros FFPC, Silva MAM, Silva ASL (2013): Follicular aspiration. In: Oliveira MEF, Teixeira PPM, Vicente WRR (eds.): *Reproduction's Biotechnology in Sheeps and Goats* (in Portuguese). 1st ed. MedVet, Sao Paulo. 147–151.

Ward Brian C., Panitch Alyssa (2011): Abdominal Adhesions: Current and Novel Therapies. *Journal of Surgical Research*, 165, 91-111 <https://doi.org/10.1016/j.jss.2009.09.015>

Yuzbasioglu M, Ezberci F, Senoglu N, Ciragil P, Tolun F, Oksuz H, Cetinkaya A, Atli Y, Kale I (2008): Intraperitoneal EMLA (lidocaine/prilocaine) to prevent abdominal adhesion formation in a rat peritonitis model. *Bratislavské Lekárske Listy* 109, 537–543.

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