

FOLLICULAR GROWTH DYNAMICS. APPLICATION OF PREPARATIONS DALMARELIN (LECIRELIN) AND DEPHERELIN® (GONAVET® 50) FOR ESTRUS STIMULATION IN COWS

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Summary. The aim of the present study was to study the ovarian and follicular parameters, analyze follicular growth dynamics and to stimulate oestrus using synthetic GnRH analogues on 3 to 9 years age Lithuanian Black and White and German Black and White breed cows. The study was conducted on 40 cows kept at Lithuanian Veterinary Academies practical training and research farm. Linear ultrasound scanner (Scanner 100 LC Vet, The Netherlands) was used to study ovarian parameters. Oestrus in 37 cows was stimulated using synthetic GnRH analogues Dalmarelin (Lecirelin) (Fatro S. p. A., Italy) and Depherelin® (Gonavet® 50, Veyx-Pharma GmbH, Germany). Additional study of the effectiveness of Dalmarelin (Lecirelin) on estrus stimulation was conducted on 9 cows of similar age and breed that were divided into a control (n=3) and treatment (n=6) groups. The present study showed that Dalmarelin (Lecirelin) was more (estrus stimulated in 100% cows) potent than Depherelin® (Gonavet® 50) (estrus stimulated in 92, 9 % cows) preparation for estrus stimulation in cows. In the pregnancy trial, following 45 days after artificial insemination, the highest percentage (43.5 %) of pregnant cows, as determined by ultrasound scanner, was determined in the cow group stimulated with Dalmarelin (Lecirelin).

Keywords: ovaries, follicles, estrus, GnRH, cows.