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The Decrease of Progesterone-B Receptor Roles in Abortion Ewe By Dexamethasone Administration

Peran Penurunan Reseptor Progesteron Beta Dalam Arbortus Domba Bunting oleh Pemberian Dexamethason

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Abstract

In mammalian, progesterone play a pivotal role in controlling uterine function during pregnancy. It acts as a gene suppressor, down-regulate a number of genes that are essential for myometrial contraction, including its receptor. The biological actions of progesterone are mediated by two PR isoforms, PR-A and PR-B. Since during pregnancy PR-B is simply dominant regulator in order to maintain uterine muscle relaxation. On the other hand the switches of PR-B to PR-A is the momentum for uterine contraction which lead to parturition or abortion. It showed by the decrease of PR-B number in uterine muscle cells. The aim of this study was to test the hypothesis that dexamethasone (Dex) decrease PR-B roles by binding to regions ligand binding domain and inhibits PR-B transcriptional activity in pregnant ewe. The research design was Randomized Posttest Control Group Design for the expression of PR-B in uterine stromal cells at control and treatment group. Fourteen pregnant ewe (n=14) at mid gestation, day 70 – 100 were recruited and distributed into control group (n=7) and treatment group of dexamethasone (n=7). Methods: Immunohistochemical staining for the PR-B was positively decreased in the uterine stroma in treatment group. Results: the PR-B expression in treatment compare control group were significantly differ (p<0,05). Conclusion: in this study the decreased of PR-B expression were induced by dexamethasone treatment.

Keyword : Progesterone, receptor, B, Dexamethasone, Abortion, Uterine, stroma,

Daftar Pustaka :