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| PROJECT TITLE | The Effect of Application of COX-2 Selective and Non-Selective Nonsteroidal Drugs at Different Days and Doses on Fertility in Synchronized Central Anatolian Merino Sheep during the breeding season (T1) |
| PROJECT NUMBER | TAGEM / HAYSUD / 5874 |
| PROJECT LEADER | Mesut KIRBAŞ |
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| INSTITUTE | Bahri Dağdaş International Agricultural Research Institute |
| START AND END DATE | 01.01.2023 - 31.12.2024 |
| PROJECT RESOURCE AND BUDGET | TAGEM- 96.500 |
| PROJECT DEPARTMENT | Department of Livestock and Aquaculture Research |
| SUMMARY: | <p>Reproduction is very important in farm animals and sheep breeding. Especially early embryonic deaths (average 30%) cause lamb losses. For this reason, research on the prevention or reduction of embryonic deaths is of great importance. In recent years, studies with nonsteroidal anti-inflammatory drug (NSAID) on the prevention of embryonic deaths have been increasing. In this study, long-acting Diclofenac sodium, which has Cyclooxygenase (COX) non-specific effect, and the carprofen preparations, which have Cox 2 selective effects, will be examined on pregnancy and fecundity in sheep after breeding. For this purpose, Central Anatolian Merino sheep synchronized with double-dose PGF2α at 9 days intervals will be inseminated by hand-mated method. Carprofen and diclofenac sodium will be carried out in sheep on the 11th day (full and half dose) and on the 11th and 12th days (half dose) after mating. Blood progesterone values will be determined on the 9th, 11th, 13th, 15th and 17th days after inseminating. Pregnancies will be determined by USG on the 25th and 50th days after inseminating, and this data will be compared with parturition data. As a result, the effects of different doses of carprofen and diclofenac sodium on fertility and fecundity after inseminating in Central Anatolian Merino sheep and their blood progesterone profiles will be revealed.</p> |
| KEY WORDS: | Sheep, Diclofenac sodium, Carprofen, fertility |

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