



Search



Home

Editorial Board

Archive

In Press Articles

Author's Guide

Submission

Subscription

Top 10

Contact us

Impact Factor: 0.813

5-Year Impact Factor: 0.74



Visitors:

909 176

← Pak Vet J, 2017, 37(1): 120-122 →

Diagnosis of Ovarian Follicular Cyst in a Beetal Goat by Ultrasonography and Treatment with GnRH-PGF_{2α}

Muhammad Irfan-ur-Rehman Khan^{1*}, Muhammad Ejaz-ul-Haq¹, Abdul Rehman¹, Imran Mohsin², Mubbashar Hassan¹, Nasim Ahmad¹ and Rehana Kausar³

¹Department of Theriogenology; ²Department of Livestock Production, University of Veterinary and Animal Sciences, Lahore, Pakistan; ³Principal Scientist, Animal Reproductive Endocrinology Group, Animal Science Division, Nuclear Institute for Agriculture and Biology, Faisalabad, Pakistan

*Corresponding author: irfan.khan@uvas.edu.pk

Abstract

A one year old healthy Beetal goat with nymphomaniac signs was diagnosed for ovarian follicular cyst via transrectal ultrasonography. Two ovarian scans at 10-days interval revealed an anechoic mass >10 mm in diameter with thin echogenic wall on the right ovary. The follicular cyst was treated with single dose of GnRH (50µg; i.m., Day 0), followed by a luteolytic dose of PGF_{2α} (0.075 mg, i.m.) on Day 11. The efficacy of the treatment was determined by monitoring ultrasonographic changes in follicular cyst on Days 0, 11 and 16, and by measuring plasma estradiol and progesterone concentrations on Days 0, 3, 6, 7, 11, 13 and 16. After GnRH treatment, Latinization of follicular cyst occurred and plasma progesterone concentration increased in tandem with the decrease in estradiol concentration. After PGF_{2α} treatment, luteinized cyst regressed and plasma progesterone concentration decreased while of estradiol increased. The goat expressed estrus 84 h after PGF_{2α}. In conclusion, the combination of GnRH-PGF_{2α} is an effective therapy for a follicular cyst in Beetal goat.

Key words: Beetal goat, Estradiol, Follicular cyst, Progesterone, Ultrasonography



ISSN 0253-8318 (PRINT)
ISSN 2074-7764 (ONLINE)

