

**STUDIES ON PITUITARY-OVARIAN AXIS IN THE FEMALE  
CAMEL WITH SPECIAL REFERENCE TO CYSTIC AND  
INACTIVE OVARIES**

**By**

**A.A. Hegazy, A. Ali, M. Al-Eknah and S. Ismail**

**College of Veterinary Medicine & Animal Resources,  
King Faisal University, Al-Ahsa, Saudi Arabia.**

**ABSTRACT**

The present investigation was performed on 190 female camels slaughtered at Al-Ahsa Modern Slaughterhouse throughout one year period. Blood samples, pituitary glands and ovaries were collected from the animals at the time of the slaughter. Follicle stimulating hormone (FSH), luteonizing hormone (LH), oestradiol-17 $\beta$  (E<sub>2</sub>) and progesterone (P<sub>4</sub>) hormones were determined in cases of cystic and inactive ovaries. The follicular ovarian wave was also studied. The ovarian examination revealed the increase incidence of inactive ovaries during summer and cystic ovaries during spring and autumn. Histological and histochemical pictures of pituitary gland during the inactive, cystic and ovarian follicular wave were described and discussed.