

Short communication

HISTOPATHOLOGICAL STUDIES OF THE UTERUS AND OVARY IN CANINE PYOMETRA

The endometrium and myometrium have different morphologic and functional characteristics during various stages of reproductive cycle, owing to their sensitivity to hormonal changes. Pyometra in the bitch is a hormone mediated diestral disorder.

The tissue samples were collected from ten clinical cases of pyometra after panhysterectomy. Ovary and specimen from body of uterus were processed by paraffin embedding technique (Luna, 1968). Microscopically, ovaries showed multiple retained corpora lutea along with presence of a few primordial and atretic follicles (Fig. 1).

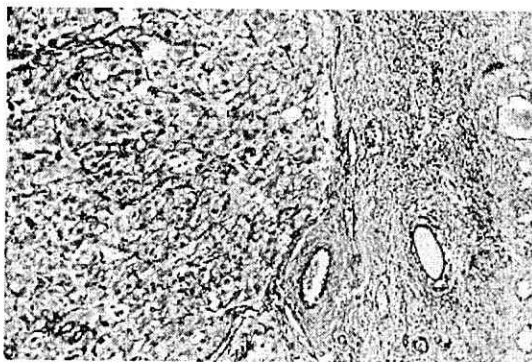


fig. 1

The microscopic changes in the uterus included simple glandular hyperplasia and suppurative endometritis with cystic hyperplasia of endometrial glands. The hyperplastic glands contained large number of intact and disintegrating neutrophils (Fig. 2). Chronic suppurative endometritis characterized by infiltration of leucocytes and lymphoid cells (Fig.3) in the interglandular space was evident.

The morphological changes observed in this study indicate that pyometra was associated with



fig. 2

exaggerated response of endometrium to progesterone which is evident by presence of corpora lutea in the ovaries in all the cases.

**S.G. Gayakwad, B.N. Ranganath¹,
S.M. Jayadevappa², C.L. Srinivas³ and
S.K. Vijaysarathi⁴**

Department of Veterinary Surgery and Radiology
Veterinary College, Bangalore. 560 024

Reference

Luna, L.G. (1968). *Manual of Histological Staining Methods*. 3rd ed., Armed Forces Institute of Pathology. pp. 38-39

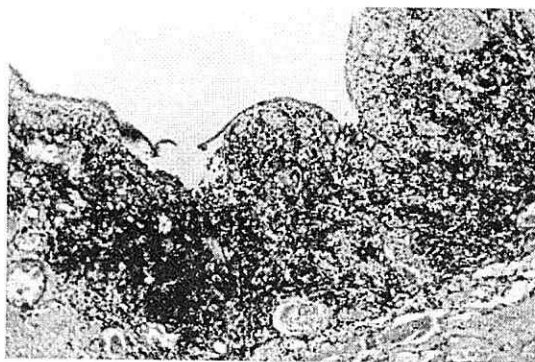


fig. 3