

**ELEVENTH ANNUAL  
HOUSE OFFICER SEMINAR DAY  
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**Veterinary Medical Teaching Hospital  
School of Veterinary Medicine  
University of California, Davis**



**CATHETERIZATION OF THE OVARIAN VEIN FOR LONG-TERM MONITORING OF OVARIAN STEROID HORMONE PRODUCTION IN THE MARE.** PM McCue, DVM, Veterinary Medical Teaching Hospital (VMTH); RL Linford, DVM, VM: Department of Surgery; S Montavon, DVM, VMTH; BL Lasley, PhD, VM: Department of Reproduction, University of California at Davis.

The purpose of the study was to develop a catheterization technique that would allow for collection of ovarian venous blood over prolonged periods of time. A flank laparotomy with the mare in lateral recumbency under general anesthesia was used for surgical exposure. The ovarian branch of the ovarian vein was identified and one of its tributaries cannulated with a 7.3 Fr. Silastic catheter. The catheter was exited through the abdominal musculature and skin 4 cm cranial to the flank incision. After recovery from anesthesia, the catheter was flushed with 0.05 ml boluses of heparinized saline every one-half hour utilizing a programmable peristaltic pump. Blood samples were collected twice daily from the jugular vein and the ovarian vein for 40 days. Peak concentrations of progesterone ranged from 3 to 6  $\mu\text{g/ml}$  in the vein draining the ovary which contained the active corpus luteum. The mare was determined to be in diestrus by serial ultrasonography of the ovary per rectum. Progesterone concentration in the ovarian vein were 100 to 1000 times higher than paired samples from the jugular vein (5-10 ng/ml). This technique provides for a more detailed characterization of ovarian activity than has been available previously. Future applications include monitoring ovarian response to pregnancy and collection of serial samples from ovarian tumors.

### *Poster Presenters*

22. EFFECT OF PROPARACAINE ON THE GROWTH OF MICROORGANISMS OBTAINED FROM CORNEAL LESIONS.  
David D Canton, DVM  
Resident III Ophthalmology
23. A COMPARISON OF SIX HUMAN MONOCLONAL ANTIBODIES FOR DETECTION OF CYTOKERATINS IN NORMAL AND NEOPLASTIC CANINE TISSUES.  
Aglaia Cardona, DVM  
Resident II Oncology
24. A RETROSPECTIVE STUDY OF FELINE URINARY TRACT INFECTIONS.  
Autumn Davidson, DVM  
Resident I Small Animal Internal Medicine
25. LUMBOSACRAL PARAMETERS IN NORMAL DOGS AND IN DOGS WITH CAUDA EQUINA SYNDROME.  
J Mattoon, DVM  
Resident III Radiology
26. CATHETERIZATION OF THE OVARIAN VEIN FOR LONG-TERM MONITORING OF OVARIAN STEROID HORMONE PRODUCTION IN THE MARE. ✓  
PM McCue, DVM  
Resident II Equine Reproduction
27. CASE REPORT: ILEO-COLIC INTUSSUSCEPTION DUE TO LEIOMYOSARCOMA IN AN ADULT HORSE.  
JM Smith, DVM  
Resident II Large Animal Medicine