

UNIVERSITY OF NAIROBI
DEPARTMENT OF CLINICAL STUDIES
**JCL 438: UDDER HEALTH, REPRODUCTIVE BIOTECHNOLOGY &
FERTILITY MANAGEMENT**

SEMESTER TWO – 2023/2024

Mondays: 10.30 – 11.30 A.M, 11.30 – 12.30 P.M

Wednesdays: 8.00 – 9.00 A.M.

Fridays: 9.00 – 10.00 A.M.

VENUE: 4TH YEAR LECTURE THEATRE

<u>DATE</u>	<u>TOPIC</u>	<u>LECTURER</u>
<u>March 2024</u>		
UDDER HEALTH		
MON 25 TH	Review of embryological development,	Dr. Nakami / Korir*
MON 25 TH	Developmental anomalies,	Dr. Nakami / Korir*
WED 27 ND	Physiology of lactation,	Dr. Nakami / Korir*
FRI 29 TH	Good Friday	
<u>April 2024</u>		
MON 1 ST	Easter Monday	
WED 3 RD	Agalactia, hypogalactia, Anomalies of lactation e.g., Witche's milk, gynaecomastia, lactation without Pregnancy, before parturition	Dr. Nakami/Korir*
FRI 5 TH	Induction of lactation Inhibition of lactation and measures to inhibit lactation	Dr. Nakam/Korir*
MON 8 TH	Skin diseases of the udder and teats (e.g., urticaria, pox, Mammillitis, and photosensitization), teat lesions, Incontinentia lactis	Dr. Nzomo/Ng'eno
MON 8 TH	Treatment and types of teat wounds –	Dr. Nzomo/Ng'eno
WED 10 TH	Anatomy of teats (structure, nerve and blood supply) with respect to healing of surgically treated wounds.	Dr. Nzomo/Ng'eno
FRI 12 TH	Mastitis: definition, classification and clinical types	Dr. Mbai
MON 15 TH	Aetiological agents.	Dr. Mbai
MON 15 TH	Herd and clinical diagnosis of mastitis, epidemiology	Dr. Mbai

	and economics of DA principle.	
WED 17 TH	Treatment of clinical mastitis – principles and practical Field applications (emphasis on drug choice, administration And absorption determining factors etc.).	Dr. Mbai
FRI 19 TH	Prevention and control of bovine mastitis. Introduction to options of control	Dr. Mbai
MON 22 ND	Components of a basic control program: in small-scale /hand-milked farms and large herds/machine-milked farms	Dr. Mbai
MON 22 ND	Mastitis in other domestic animals	Dr. Nzomo/Mbai

REPRODUCTIVE MANAGEMENT

Breeding Soundness Examination – All species

WED 24 TH	Physical examination of the female Examination of the female reproductive tract	Dr. Bwanga
FRI 26 TH	Physical examination of the male Examination of the male reproductive tract	Dr. Bwanga
MON 29 TH	Semen collection and evaluation – All species Bacteriological cultures.	Dr. Bwanga

Assisted Reproductive Technologies : AI, IVM/IVF, ET

MON 29 TH	Detection of oestrus in all domestic species Optimal insemination time in all domestic species	Dr. Bwanga
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May 2024

WED 1 ST	Labour Day	
FRI 3 RD	Semen handling, processing for AI Insemination equipment	Dr. Bwanga
MON 6 TH	Insemination procedure in all domestic species	Dr. Bwanga
MON 6 TH	Factors affecting conception rate	Dr. Bwanga
WED 8 TH	Sperm sexing	Dr. Ndeke
FRI 10 TH	Donor and surrogate selection Superovulation, ovum collection	Dr. Ndeke
MON 13 TH	CAT	
MON 13 TH	Invitro maturation of oocytes Invitro fertilization	Dr. Ndeke
WED 15 TH	Flushing and grading of embryos, Embryo culture	Dr. Ndeke

	Embryo transfer	
FRI 17 TH	Embryo manipulations	Dr. Ndeke
	Transgenic animals	
MON 20 TH	Preservation and cryopreservation of gametes and Embryos, Culture media	Dr. Ndeke
MON 20 TH	Reproductive Management – Small Animals	Dr. Ng'eno/Nzomo
WED 22 ND	Reproductive Management – Dairy Cattle	Dr. Nzomo/Ng'eno
FRI 24 TH	Reproductive Management – Pigs	Dr. Ng'eno
MON 27 TH	Reproductive Management – Sheep	Dr. Ng'eno
MON 27 TH	Reproductive Management – Goats	Dr. Ng'eno/Korir*
WED 29 TH	Reproductive management - Equine Stud	Dr. Ng'eno
FRI 31 ST	Reproductive management – Camel	Dr. Bwanga

03/06/2024 – 14/06/2024: SEMESTER TWO EXAMINATIONS

Korir*: Dr. Korir is a postgraduate student enrolled for a master of theriogenology degree.

Prepared by:



DR. AMBROSE K. NG'ENO
Theriogenology Section

Approved by:

CHAIRMAN
DEPARTMENT OF CLINICAL STUDIES
FACULTY OF VET MEDICINE
27/02/2024

PROF. JAMES NGUHIU-MWANGI
Chairman
Department of Clinical Studies

cc Academic Staff - Theriogenology
Notice boards, CSD