



UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES

FACULTY OF VETERINARY MEDICINE

DEPARTMENT OF CLINICAL STUDIES

ANNUAL REPORT FOR THE PERIOD JULY 2012 – JUNE 2013

DR. JOHN DEMESI MANDE

CHAIRMAN OF DEPARTMENT

The Department of Clinical Studies is one of the five departments comprising the Faculty of Veterinary Medicine, which is administered within the College of Agriculture and Veterinary Sciences and located in the Upper Kabete Campus of the University of Nairobi. Currently, there are three discipline based academic sections, namely Medicine, Surgery and Theriogenology.

Teaching is complemented by the oldest and only Veterinary Teaching Hospital (VTH). This is organized under the Large Animal Clinic (which hosts the Large Animal Surgical Theatre, Theriogenology Theatre and Large Animal Stalls) and the Small Animal Clinic, which comprises Consultation Rooms, Small Animal Pharmacy, Surgical

and Hospitalization of Pets, mainly Dogs and Cats.

include Conventional and Digital X-Ray Equipment, Ultrasonography, Haematology, Clinical Chemistry and Microbiology Laboratories which provide support for in-house and referral samples submitted by Ambulatory Services, Private Practitioners and Research Institutions.

Majority (60 %) of the 30 academic staff hold PhD degrees, and these include 10 Professors, 8 Senior Lecturers, 6 Lecturers, and 6 Tutorial Fellows. Three clinicians support the Income Generating Activities of the VTH which complement the revenue base to finance Teaching, Research, Diagnostic, Ambulatory, Herd Health, and Extension activities.

A number of the Professors and Lecturers in the department display visible administrative and leadership functions within the University of Nairobi (the Deputy Vice Chancellor - Administration and Finance and the Dean of the Faculty of Veterinary Medicine) and Public Universities (the Chancellor of Karatina University and the Deputy Vice Chancellor - Administration and Finance - Egerton University), Kenya Veterinary Association and Kenya Veterinary Board. Others provide technical and management support to the Veterinary Faculty Farm at Kanyariri and the Clinical Studies Income Generating Units, besides conducting cutting edge research, teaching and supervision of undergraduate and postgraduate students and other functions.

The academic programmes offered in the department include;

Undergraduate programmes:

- Bachelor of Veterinary Medicine (Medicine, Surgery and Theriogenology).
- Diploma in Animal Health and Production
- Certificate in Artificial Insemination and Fertility Management
- Certificate in Epidemiology and Disease Surveillance

Postgraduate programmes

- Master of Science Clinical Studies
- Master of Science Wildlife Health and Management
- Master of Science Theriogenology
- Master of Veterinary Medicine
- Master of Veterinary Surgery
- Doctor of Philosophy Clinical Studies

In order to facilitate collaboration, efficiency and growth, the Department coordinates teaching of the Bachelor of Science Wildlife Management and Related Options. In addition, it provides support in teaching of courses in the Faculty of Veterinary Medicine, such as Diploma Leather Technology, Bachelor of Science Leather Science and Technology, Bachelor of Science Fisheries and Aquaculture Management, Master of Science Veterinary Epidemiology and Economics and Master of Science Natural Products and Bioprospecting. The academic programmes continue to attract a sizeable of undergraduate and postgraduate students from the country and abroad. International students currently admitted in the undergraduate programmes come from South Africa, South Sudan while postgraduate students include those from Ghana, Japan and South Africa. The current undergraduate and postgraduate student in the department is 286 students.

The research activities are demonstrated by the large number of papers published in peer reviewed scientific journals and presented at national and international scientific conferences. Academic staff has attracted significant research grants and this trend is expected to grow.

The department collaborates with several research partners including;

- Donkey Sanctuary Worldwide.



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- Kenya Wildlife Service.
- International Livestock Research Institute.
- World Society for Protection Animals.
- Kenya Animal Genetic Resource Institute.
- Pest Control Products Board.

Industry partners are drawn from a pool of reliable suppliers of animal feeds, surgical equipment and consumables, veterinary pharmaceuticals and biological as well as technical services. Some of these industry partners include;

- Unga Feeds Ltd
- Lesukut Ltd
- Coopers (Kenya) Ltd
- Norbrook (K) Ltd
- Bimeda-Assia Pharmaceuticals Ltd

OUTREACH AND COMMUNITY SERVICE

The department was involved in a number of outreach activities including;

- 5th year Herd Health Trip to Olpejeta Conservancy on 14th December 2012.
- Outreach to Bureti
- Tree planting, Herd Health and Community Outreach at Kibwezi 16th and 17th April 2013

Publications in Refereed Journals

Book Chapter

- J. Aleri, Eddy G.M. Mogoia and Peter M.F. Mbithi
Care in Dairy Cows Within Smallholder Zero-Grazing Units in the Peri-Urban Areas of Nairobi, Kenya; In: Insights from Veterinary Medicine - InTech Open Science Publications. ISBN 978-953-51-1005-7; <http://dx.doi.org/10.5772/53678>.
2. **G. K. Gitau**, R. M. Bundi, J. Vanleeuwen and C. M. Mulei. Evaluation of petrifilms as a diagnostic test to detect bovine mastitis organisms in Kenya *Tropical Animal Health and Production*, (2013), 45: (3), 883-886 (DOI: 10.1007/s11250-012-0286-y).
 3. W. Kabaka, **G. K. Gitau**, J. Mariner and N. Abudiku. The use of participatory epidemiology to determine the prevalence rate and economic impacts of PPR and CCPP in Turkana County of Kenya. *Bulletin of Animal Health and Production in Africa* (2012) 60, (3) 241-250.
 4. Abuom T.O., Njenga, M.J., Wabacha J.K., Tsuma V.T. and **Gitau G.K.** Incidence and risk factors of periparturient conditions in smallholder dairy cattle herds in Kikuyu Division of Kiambu District, Kenya. *Ethiopian Veterinary Journal* (2012), 16 (2): 85-102.
 5. **G. Kirui, G. K. Gitau, A. G. Thaiyah and C. M. Mulei** (2012) **Health and production constraints in camel calf rearing in Marsabit county of Kenya** a Paper submitted for publication
 6. Aleri, J W, **Nguihu, J M**, Mogoia, E M and Mulei, C M (2012): A note on milking practices in the smallholder dairyproduction systems of nairobi and its environs. *Bulletin of Animal Health and Production in Africa*, 60: 565.569.
 7. Amenity, H.A., Gathumbi, P.K., Mbaria, J.M., **Thaiyah, A.G.** and Thoithi, G.N. (2012). In vitro and acute in vivo toxicity of the aqueous and chloroformic extracts of *Rapanea melanophloeos* (L) Mez. *The Kenya Veterinarian* vol. 35 (2) 77-85
 8. **Thaiyah, A.G.**, Aleri, J.W., Abuom, T.O. and Mulei, C.M. (2012). A Typical Actinobacillosis in an Adult Friesian Cow. *Bull. Anim. Hlth. Prod. Afri.* Vol 60, No 1, 103-104.
 9. J W Aleri, **J Nguihu-Mwangi**, E M Mogoia and C M Mulei (2012). Welfare of dairy cattle in the smallholder (zero-grazing) production systems in Nairobi and its environs. *Livestock Research for Rural Development* 24 (9) 2012
 10. D.W Gakuya, S.M Itonga, J.M Mbaria, **J.K Muthee** AND J.K Musau (2013). Ethnobotanical survey of biopesticides and other medicinal plants traditionally

11. **Gakuya, D.W.** Itonga, S.M. Mbaria , J.M. , Muthee J.K. , Musau, J.K.2013. Ethnobotanical survey of biopesticides and other medicinal plants traditionally used in Meru Central district of Kenya. Journal of Ethnopharmacology 145(2)547-553.
12. Nguta, J.M., Mbaria, J.M., **Gakuya, D.W.**, Gathumbi, P.K., Kabasa, J.D., Kiama, S.G.2012. Cytotoxicity of antimalarial plant diversity to the brine shrimp *Artemia salina* L.(Artemiidae). Drugs and therapy Studies 2: 64-67.
13. Nguta, J.M., Mbaria, J.M., **Gakuya, D.W.**, Gathumbi,P.K., Kabasa, J.D., Kiama,S.G.2012. Evaluation of acute toxicity of crude extracts from Kenyan biodiversity using brine shrimp, *Artemia salina* L.(Artemiidae). The open conference proceeding Journal 3:30-34.

WORKSHOPS AND CONFERENCES

- A training consultant for International Livestock Research Institute (ILRI) on “**Working with Animals and Animal Vectors in Animal Containment Level I, II and III**” and covering issues on *Animal Handling, Animal Welfare, Biosafety, Biosecurity, Occupational Health and Related Policy and Regulatory Frameworks (1st – 5th October 2012)*. (**Dr. Mogo**)
- **2013:** Inter-University workshop to bring together faculties from One Health Central and East Africa (OHCEA) institutions to nurture collaboration, co-teaching, curriculum review and partnership, 21st -25th January, Panari Hotel, Nairobi, Kenya. **Role: Presenter and participant. (Dr. Tsuma)**
- **2012:** Kenya Veterinary Board (KVB)-Micro Enterprise Support Program Trust (MESPT) national stakeholders workshop on artificial insemination curriculum and refresher training modules at the Kenya Agricultural Research Institute headquarters, 29th November, Nairobi, Kenya. **Role: facilitator. (Dr. Tsuma)**
- **2012:** Working safely with genetically modified animals and animal production/health inputs and outputs. Jacaranda hotel, 20th to 21st November, Nairobi, Kenya. (**Dr. Tsuma**)
- **2012:** Attended livestock emergencies guidelines (LEGS) training at Clinical Studies Department, University of Nairobi, 7th to 9th November, Nairobi, Kenya. (**Dr. Tsuma**)
- **2012:** Kenya Veterinary Board (KVB)-Micro Enterprise Support Program Trust (MESPT) workshop on development of a harmonized curriculum for artificial insemination (AI) training in Kenya, and development of refresher training modules

o 13th October, Machakos, Kenya. **Role: resource**

- (Oct. 2012) - ILRI animal safety workshop (**Dr. Muraya**)
- **J Muraya**, A N Kipyegon, V T Tsuma and E M Mogo; Management of Chronic Gangrenous Mastitis in an Adult Lactating Cow Using Partial Gland Mastectomy. *Kenya Veterinary Association 47th Annual Scientific Conference 2013.*
- **J Muraya**, H M Mutembei and V T Tsuma; Characterization of the Ovarian Follicular Dynamics in the Kenyan Boran Cow. *Kenya Veterinary Association 47th Annual Scientific Conference 2013.*
- **J Muraya**, H Mutembei and C Mulei; Rabies and population control strategy of stray dogs and cats in Nairobi slum areas: A retrogressive study on control of rabies in selected slum areas in Nairobi. *One health conference 2013*
- 2012. The Seventh Global Scientific TEPHINET Conference, 10-15, November, 2012 in Amman, Jordan (**Dr. Thaiyah**)
- 2013. Prince Mahidol Award conference (PMAC) on One Health. 29th January to 2nd February 2013. Bangkok, Thailand (**Dr. Thaiyah**)
- 2013. 47th Annual Scientific Conference between 24th and 26th April 2013 at Whitesands Hotel, Mombasa. (**Dr. Thaiyah**)
- **Kihurani, D.O.** (2013). An update on Embryo Transfer activities in Kenya. Presented at the Kenya Veterinary Association Conference, Mombasa, 24-26th April, 2013.
- Participated as a team member of Veterinary emergency Response Unit (VERU) in the Tana Delta 4th -8th September 2012 after the tribal clashes (**Dr. Muthee**)
- Attended a training course on The Livestock Emergency Guidelines and Standards (LEGS) held at the Faculty of Vet Medicine 7th-9th November 2012 (**Dr. Muthee**)
- Participated in the KAWAN's Animal Welfare Workshop held at the Kabete campus on 5th April 2013 (**Dr. Muthee**)
- Participated in Kenya Veterinary Association 2013 annual Scientific Conference in Whitesands Beach Hotel 24th-28th April 2013 (**Dr. Muthee**)

s graduated with the various degrees in the reporting period 2012-2013

	<u>Name</u>	<u>Registration no</u>	<u>Program</u>	<u>Title of Thesis</u>	<u>Supervisors</u>
<u>1</u>	DR. SHARON TSIGADI	J56/7370/2004	MSc. In Clinical Studies	Radiographic and Pathological Features of Urinary Conditions in Dogs in Nairobi, Kenya	Prof. Susan W. Mbugua Prof. Peter K. Gathumbi Dr. John D. Mande
<u>2</u>	DR. GILBERT KIRUI	J56/7000/2003	MSc. In Clinical Studies	Factors associated with Health and Production of Camel calves in Marsabit District of Kenya	Prof. G.K. Gitau Prof. C.M. Mulei Dr. A.G. Thaiyah
<u>3</u>	MUGO SAMUEL GITAU	J56/72675/2008	MSc. In Clinical Studies	Prevalence and Risk Factors of Conditions causing lameness in sheep under free range grazing system in Kajiado District, Kenya	Prof. Njenga Munene John Dr. James Nguhiu-Mwangi Dr. Andrew Gitau Thaiyah

			4/2009	MSc. In Clinical Studies	The Prevalence, Antibacterial Sensitivity and Usefulness of Petrifilms as a Diagnostic tool for Bovine Mastitis in Mukurwe-ini and greater Nakuru Districts, Kenya	Prof. Charles M. Mulei Prof. George K. Gitau Prof. John Vanleeuwen
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The following postgraduate students were registered in the department during the reporting period

MASTER OF SCIENCE IN CLINICAL STUDIES

<u>NAME OF CANDIDATE</u>	<u>SUPERVISORS</u>	<u>NATIONALITY</u>
DR. RUTH ORIGA	Prof. Gilbert Agumbah Dr. Henry Mutembei	KENYAN KENYAN
DR. JOAN MURAYA	Dr. Henry Mutembei Dr. Victor Tsuma	KENYAN

MASTER OF VETERINARY SURGERY

<u>NAME OF CANDIDATE</u>	<u>SUPERVISORS</u>	<u>NATIONALITY</u>
1. DR. EDWIN W. MWANGI	Dr. Eddy Mogoa Dr. James N. Mwangi	KENYAN
2. DR. LYLIAN W. MATHAI	Prof. David Kihurani Dr. John D. Mande	KENYAN
3. DR. PETER KIMELI	Dr. James N-Mwangi Dr. Eddy Mogoa	KENYAN
4. DR. ALBERT RHANGANI	Dr. John D. Mande Dr. Eddy Mogoa	SOUTH AFRICAN

ICINE

NAME OF CANDIDATE	SUPERVISORS	NATIONALITY
DR SYLVIA N SITUMA	Prof. Charles M. Mulei Prof. George K. Gitau	KENYAN
DR. GETRUDE SHEPELO	Prof. George K. Gitau Prof. Charles M. Mulei Prof. John Vanleewen	KENYAN
DR. SHARON MBINDYO	Prof. George K. Gitau Prof. Susan W. Mbugua Prof. Charles M. Mulei	KENYAN
DR. DANIEL W. MUASYA	Prof. George K. Gitau Dr. Daniel W. Gakuya Prof. Japheth Kiptoon	KENYAN
DR. ANDREW K. MATOLE	Prof. George K. Gitau Dr. Daniel W. Gakuya	KENYAN

MASTER OF SCIENCE IN THERIOGENOLOGY

- | | |
|---------------------------------|---------------|
| 1. DR. ANN NDULULU NDEKE | KENYAN |
| 2. DR. MUTUA MUTUKU | KENYAN |

DR. ANN N. NDEKE	Dr. Victor Tsuma Dr. Henry Mutembei	KENYAN
DR. MUTUA MUTUKU	Dr. Victor Tsuma Dr. Henry Mutembei	KENYAN

CLINICAL STUDIES

DR. JAFRED M.A. KITAA

KENYAN

NAME OF CANDIDATE	SUPERVISORS	NATIONALITY
DR. JAFRED M.A. KITAA	Prof Charles M. Mulei Dr. John D. Mande Prof. James K Wabacha	KENYAN
DR. TEQUEIRO O. ABUOM	Prof. Njenga Munene Prof. James K Wabacha Dr. Victor Tsuma Prof. John Vanleewan	KENYA
DR. JOHN KAUNGA MUTHEE	Dr. Daniel W. Gakuya Prof. Charles M. Mulei Prof. James Mbaria	KENYAN
DR. HOPE OTSYUNA	Dr. James Nguhiu-Mwangi Dr. Eddy Mogo Prof. Paul Gichohi Mbuthia Prof. William Ogara	KENYAN
DR.DAVID NDEEREH	Dr. Andrew G. Thaiyah Dr. Gerald Muchemi Dr. Kariuki Njenga	KENYAN

EXTERNAL EXAMINERS 2012/2013

The following external examiners visited the Department of Clinical Studies during the reporting period:

	NAME	DEPARTMENT	INSTITUTION
1.	Professor Suleman	Department of Medical Laboratory Sciences	Jomo Kenyaokoine University of Agriculture,
2.	Prof. Noel Lemree Kanuya Associate Professor	Department of Veterinary Medicine and Public Health,	Sokoine University of Agriculture
3.	Prof. Bittegeko, Salvatory Balthazar Pulcheria Rweyemamu	Department of Veterinary Medicine and	Sokoine University of Agriculture

		Public Health,	
4.	Evans L.N. Taracha	Senior Veterinary Immunologist/Vaccinologist	Institute of Primate Research
5.	Prof. Charity Wangui Gichuki	Head of Research and Development Bureau	Presbyterian University of East Africa Kenyatta University
6.	JOHN KIMANI MUNGAI	Senior Analyst	Government Chemist's Department
7.	Mbaruk Abdalla Suleiman B.	Principal Research Scientist	Institute of Primate Research

LIST OF CLINICAL STUDIES

The following individuals visited the department during the reporting period;

NAME	FROM WHERE	DATE
Lisa Kramer	USAID East African Mission	29/11/12
Philemon Wambura	Sokoine University of Agriculture/OHCEA	18/12/12
Nahanganila Muyumba	University of Lubumbashi DRC	18/12/12
Gebrehiwot Tadesse	Mekelle University Ethiopia	18/12/12
Kagarama Juvenal	Umutara Polytechnic Rwanda	18/12/12
Dr. Kabagambe Rugamba	One Health Central and Eastern Africa	18/12/12
Dr. S. Tsigadi	Farmers Choice	04/04/13
Dr. Stephen Kinyi	K-LIFT	18/04/13
Dr. Samuel Makumi	Kenya Veterinary Association	18/04/13
Debra Darham	Seathe WA USA	18/04/13
Dr. Wainaina	ANAW	18/04/13
Natasha Dolezal	Lewis Clark Law School Portland	18/04/13
Kathy Hessler	Lewis Clark Law School Portland	18/04/13
Dr. J.G. Munga	Ceva sante Animale	31/05/13
Antoine Leconte	Ceva sante Animale	31/05/13

Mr. .M. Gitahi	HND	Chief Technologist
Ms. Caroline M. Huria	Bachelor of Commerce	Administrative Assistant
Mr. J.M. Nduhiu	HND	Senior Technologist
Mr. G.O. Ogola	HND	Radiographer
Mr. Richard W. Matheka	HND	Radiographer
Mrs. J. N. Onsongo	HND	Senior Technologist
Ms. J.M. Kamau	HND	Senior Technologist
Mr. P. Gitau	Dip. In Medical Lab.	Dip. In Medical Lab.
Hildah L. Nakweya	Diploma	Technologist ABC
Alice W. Kinyua	Diploma	Technologist ABC
Athumani H. Mwashando	Diploma	Technologist ABC
Mr. IsaacM. Kiragu	Certificate	Storekeeper - B
Ms Ruchia W. Ngila	Certificate - Range	Receptionist/ Animal Health Technician - B
Ms Mary N. Mukiri	Certificates	Receptionist - A
Mr. Jacob O. Tolo	Certificate - Animal Health	Driver Guide/ Animal Health Technician - A
Ms Rachel N. Gitau	Certificates - Secretarial	Assistant Secretary - A
Mr. Kefa O. Agutu	JLT, Certificate - AI	Theatre Assistant - A
Mr. Charles M. Gathuma	JLT	Theatre Assistant - IV
Mr. Robert N. Muthini	Diploma	Theatre Assistant - IV
Ms. Risper M. Makau	Diploma	Junior Technologist - IV
Mr. Nickson S. Ifedha	Diploma	Technical Assistant III
Mr. Peter N. Njenga	JLT, Certificate - AI	Driver - A
Mr. Charles K. Musyoka	KCE	Driver - III
Mr. Daniel M. Muriuki	Certificate - Mechanic	Driver - III
Mr. John M. Murimi	Certificates	Driver - III
Ms. Jane W. Muriithi	Certificates Receptionist/Computer	Animal Attendant - III
Mr. Patrick N. Kimeu	KCSE	Animal Attendant - II
Mr. Gideon M. Karitu	KCE	Animal Attendant - II
Mr. Benson W. Nyongesa	Certificate - Range	Animal Attendant - II

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		Certificate - Range	Animal Attendant - II
		KCSE, Certificate - AI	Animal Attendant - II
	Mr. Robale M. Rajab	Certificates	Technical Assistant - II
	Mr. Charles K. Asava	KCSE, Certificate- AI	Animal Attendant - I
	Mr. Samuel N. Karanja	KCSE	Animal Attendant - I
	Ms Sarah N. Kubue	KCE	Animal Attendant - II
	Mr. John M. Mutua	KCSE	Cleaner II

CSD: LIST OF MEMBERS OF TECHNICAL AND SUPPORT STAFF