

**CURRICULUM VITAE OF
PROFESSOR JOSEPH FADEYEMI AKINRINMADE**

- I.**
- (a) **Name:** Joseph Fadeyemi Akinrinmade
 - (b) **Date of birth:** 30 September, 1954
 - (c) **Department:** Veterinary Surgery and Reproduction
 - (d) **Faculty:** Veterinary Medicine
- II.**
- (a) **First Academic Appointment:** Lecturer II, 8 July 1982
 - (b) **Present Post (with date):** Professor, 1 October, 2014
 - (c) **Date of Last Promotion:** 1 October, 2014
 - (d) **Date Last Considered:** Not applicable

III. University Education (with dates):

- (a) University of Ibadan, Ibadan, Nigeria Sept. 1974 - June 1980
- (b) University of Ibadan, Ibadan, Nigeria Sept. 1983 - June 1986

IV Academic Qualifications (with dates and granting bodies):

- (a) Doctor of Veterinary Medicine (DVM.) University of Ibadan, Ibadan
June 1980
- (b) Master of Veterinary Science (Surgery) University of Ibadan, Ibadan
June 1986
- (c) Fellow, College of Veterinary Surgeons, Nigeria (FCVSN), August, 2012.

V. Professional Qualifications and Diplomas (with dates):

- (a) Doctor of Veterinary Medicine (DVM) June 1980
- (b) Master of Veterinary Science (Surgery) June 1986
- (c) Fellow, College of Veterinary Surgeons Nigeria (FCVSN) in Surgery
August, 2012

VI. Scholarships, Fellowship & Prizes (with dates)

- National Merit Award for Undergraduate Work only (Academic) 1976 –
1980

VII. Honours, Distinctions and Membership of Learned Societies

- Member, Nigerian Veterinary Medical Association
- Member, Nigerian Association of Veterinary Clinicians
- Member, New York Academy of Science
- Member, International Association for the Study of Pain
- Fellow, Strategic Institute for Natural Resources and Human Development (FRHD)

VIII. Details of Teaching Experience at University Level:

- **Undergraduate Courses: (Jointly taught with others)**
 - **1982 to 1985:**
 - Principles of Surgery (60h/session)
 - Large Animal Surgery (60h/session)
 - Small Animal Surgery (60h/session)
 - Lameness in Horses and Farm Animals (60h/session)
 - Surgery Clinics (720h/session)
 - **1986 to date:**

	UNITS
• VSR 421: General Principles of Surgery	3
• VSR 514: Small Animal Surgical Diseases	2
• VSR 525 : Large Animal Surgical Diseases	2
• VSR 526 : Veterinary Orthopedics	2
• VSR 531 : Surgery Clinics I	6
• VSR 617 : Operative Techniques	2
• VSR 628 : Diagnostic Imaging	2
• VSR 632 : Surgical Exercises	2

- VSR 634: Surgery Clinics 6
- VSR 639: Project 6
- **Postgraduate Courses: (Jointly taught with others) 1996 to**

date:

Course No.	UNITS
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- | | | |
|-----------|---------------------------------|---|
| • VSR 711 | Radiographic Technique | 3 |
| • VSR 712 | Basic Surgical Technique | 3 |
| • VSR 713 | Diagnostic Imaging | 3 |
| • VSR 722 | Small Animal Surgery | 3 |
| • VSR 723 | Small Animal Orthopedic Surgery | 3 |
| • VSR 724 | Equine Surgery | 3 |
| • VSR 725 | Farm Animal Surgery | 3 |
| • VSR 726 | Wound Management | 3 |
| • VSR 728 | Clinical Practice I | 3 |
| • VSR 729 | Clinical Practice II | 3 |
| • VSR 730 | Project | 6 |

- **Undergraduate Projects Supervision:**

- **DVM** 23

- **Postgraduate Projects Supervision:**

- **M.V.Sc. (Surgery)** 11

- **Others:**

- **External Examiner in Surgery (Undergraduate)**

- Department of Veterinary Surgery and Reproduction, University of Maiduguri, Maiduguri (2001-2004)

- Department of Veterinary Surgery and Obstetrics, University of Nigeria, Nsukka (2003-2005)
- Department of Veterinary Surgery and Reproduction, University of Agriculture, Makurdi (2006-2008)
- Department of Veterinary Surgery and Theriogenology, Michael Okpara University of Agriculture, Umudike (2010 to 2012)

External Examiner in Surgery (Postgraduate)

- M. Sc. (Surgery) Theses, Department of Veterinary Surgery and Obstetrics University of Nigeria Nsukka (2006)
- Department of Veterinary Surgery & Radiology, Michael Opara University of Agriculture, Umudike 2016-2019
- Department of Veterinary Medicine and Surgery, Federal University of Agriculture, Abeokuta. 2019 till Date

Internal Examiner (Postgraduate)

- PhD These, Department of Veterinary Surgery and Reproduction (2003)
- PhD Theses, Department of Animal Science University of Ibadan. 2010, 2013 and 2014.

Adjunct Lecturer

- Professional Postgraduate Fellowship Training Programme
 - Resource person in Surgery Faculty
 - Supervision of FCVSN Dissertation in surgery specialty

(f) Administrative Experience:

- Unit Head of Surgery (1992 – 94, 95-98, 2006 to date)
- Sub-Dean (Clinics) (1992 - 1994)
- Departmental Coordinator, Teaching and Research (1986 - 1991)
- Chairman, Faculty Consultancy Unit (1988 - 1990)
- Member, Faculty Board of Studies (1992 – 2004, 2007 to date)
- Member of Senate (1996 – 2004, 2009 to date)
- Member/Vice Chairman*, Faculty Ceremonial Committee (1992 – 1998; 1999 – *2003)
- Chairman, Faculty field Station, Eruwa (1996 - 1999)
- Member, University Ceremonial Committee (2001 - 2003)
- Coordinator of Veterinary Service, Vet Teaching Hospital (1999 - 2002)
- Coordinator, final year students field trip (1994 - 2003)
- Acting Head of Department (2002 - 2004)
- Member, Faculty A&P Committee at various times. (1996-2000; 2002 to date)
- Member Faculty Curriculum Committee. (2010 to date)
- Member, Administrative and Clinical Services committee of the Veterinary Teaching Hospital (1999-2002; 2009-date)
- Member, Veterinary Teaching Hospital Management Board (2011-date)
- Faculty Representative, University of Ibadan Animal Production venture (2011-date)

- Member, University of Ibadan Commercial Enterprise Review Committee (CERC) (2015)
- Member, University of Ibadan Research and Development Committee (UIRESDEV) 2016.
- Chairman, Faculty Field Trip Committee 2001 – 2005, 2007 – 2012, 2019 to date
- Centre Supervisor, Ibadan Study Centre of College of Veterinary Surgeons Nigeria, Surgery Faculty: 2019 to date

IX. **RESEARCH**

- **Completed**
- **Hematological and serum biochemical changes in Polo Horses in Ibadan, Nigeria.**

This study is of immense clinical significance to equine practitioners, as it documented the hematological and serum biochemical changes that occur in polo horses after a strenuous exercise. The findings are being used by clinicians for the assessment of fitness of polo horses.

- **A 3-year survey of caesarian operation in sheep and goats in South-West Nigeria.**

The quality of clinical competence of a surgeon is his ability to evaluate the results of the clinical cases he handled. The study highlights the incidence, pre- and post-operative complications associated with caesarean operations performed by the

author and other surgeons in other locations. The results of our findings have helped in mitigating fatalities associated with the procedure.

- **Antimicrobial efficacy and tissue reaction of *Euphorbia hirta* on canine wound.**

Surgical or traumatic cutaneous wounds are common features of human and veterinary surgical practice. Wound infection remains a major concern for the surgeon, the patient and the client. The emergence of antimicrobial resistance to synthetic products has made the search for an alternative inevitable. The study evaluated the antimicrobial efficacy and tissue reaction prospects of ethanolic extract of *Euphorbia hirta* on canine wound and found the use to be beneficial in the prevention of wound infection and surgical site preparation.

Aflatoxin status of some commercial dry dog foods in Ibadan, Nigeria (Senate Research Grant/FVM/2010/7A)

Consumption of food contaminated with highly toxic aflatoxins has been associated with high morbidity and mortality in dogs presented with gastro-intestinal disorders at the Veterinary Teaching Hospital. The study determined aflatoxin status of dog feeds in Ibadan and found them to be frequently contaminated with aflatoxin at levels that can potentially produce aflatoxicoses. It recommended scientifically-based regulations for the acceptable limit of mycotoxins in pet foods in Nigeria.

- **Ear-fly bite wounds in dogs in Ibadan, Southwest Nigeria**

Surgical management of canine aural diseases is associated with a high incidence of post-operative complications attributed to pre-operative infection of aural structures, caused by ear-fly bite. The study determined the prevalence, risk factors and recommended appropriate management protocols for ear-fly bite wounds.

- **In progress.**

(i) **Pathophysiology of Gastro – intestinal Ischemia- Reperfusion (IR) Injury (2011-)**

Ischemia – reperfusion of the gastro-intestinal tract is associated with a variety of pathologic conditions and surgical procedures, including strangulated intestine, vascular surgery and hemorrhagic shock. A key consequence of gastro-intestinal IR is the breakdown of intestinal barrier function, which normally protects the body from the hostile environment within the bowel lumen. In addition to impaired gut motility, IR of the bowel is associated with increased intestinal permeability and bacterial translocation which along with the cascading activation of cytokines, is thought to contribute to the development of systemic inflammatory response and multiple organ dysfunction syndrome, with devastating consequences. Numerous therapeutic strategies have been utilized to limit or prevent IR injury. Considerable clinical and experimental data support the role of oxidative stress in IR injury and emphasized the importance of antioxidant defense mechanisms in tissue protection.

Due to resource constraints and the ever increasing need to look inwards, several plant extracts growing ubiquitously in our environment have been reported to have in-vitro antioxidant properties that compare favourably with conventional ones. My on going research efforts focus on fractionalization and purification of crude extracts of *Ocimum grattisimum*, *Chromolaena odorata* and *Parquetina nigrescens* with

demonstrable antioxidant activities from our previous studies. Active pharmacological ingredients will be isolated and evaluated for their protective effect on intestinal I-R injury and compared with standard antioxidants. The study will produce a locally sourced antioxidant for use in animal and human patients in clinical practice and will thus help in surmounting the therapeutic challenge currently posed by IR-injury.

ii. **Protective effects of flavonoid-rich plant extracts against aflatoxin-induced gastro-intestinal damage (2012 -)**

Previous studies on label evaluation and aflatoxin status of commercial dry dog food brands revealed that significant number of brands contain toxic aflatoxin fractions far above the national permissible level. As the Nigerian exotic dog population continues to grow due to heightened demand, engendered by security challenges, stiff competition between man and animals for staple food has continued unabated. Unpublished reports from the diagnostic unit of the Veterinary Teaching Hospital indicate an increase in fatalities in dogs, suspected to be due to chronic aflatoxicosis. The on-going study aimed at investigating the protective effects of flavonoid rich extracts of *Chromolaena odorata* and *Parquetina nigrescens* against aflatoxin-induced gastro-intestinal damage. Findings from the study will help to mitigate or prevent aflatoxin-related gastro-intestinal damage in dogs, and may be recommended for inclusion into dog feed formulation as a locally sourced binder.

(iii) **Clinico-epidemiological studies (2012-)**

Studies on prevalent surgical conditions and procedures most frequently performed by surgeons have provided information of tremendous clinical significance to

clinicians especially with respect to diagnostic possibilities and treatment options under field conditions.

Trauma study is accorded great attention in human medicine than in veterinary medicine, where it is not studied in an organised manner. Records of small animal trauma cases (which constitute about 50% surgery case load in most clinics) are being investigated to evaluate the pattern with reference to species, age group, sex, causes, regional involvement, severity including fatalities, in order to develop a data base for the establishment of protocols for trauma patient care. The results from this study will be of immense benefit to practicing veterinarian in Nigeria.

Affections of the eye constitute an important part of small and companion animal practice. Studies on eye affections are considered important because of the need to prevent loss of vision. Medical records of some private and public-owned veterinary clinics and hospitals are being audited to determine the incidence, pattern of distribution, diagnosis and treatment modalities. The result from the study is expected to provide information of clinical significance to veterinary clinicians, on prevalences of ocular affections, diagnostic and management options.

- **Studies of safety and quality of surgical care (2012-)**

Establishment of standards for veterinary practice facilities, be it private or state owned, requires that some basic facilities irrespective of diversity and location of practices, must be put in place to ensure safety and guarantee quality of practice.

A retrospective study of surgical procedures performed on dogs at 3 different procedures centres will be undertaken to evaluate the level of compliance with safety and quality of care standards.

The findings from the study will indicate level of compliance with standard practices and guidelines on case documentation of surgical procedures and make appropriate recommendations for the establishment of veterinary hospital standards evaluation board by the veterinary Council of Nigeria to review the minimum standard for safe and quality surgical practice and enforce strict compliance with the guidelines of the board.

The result from the investigation is expected to create necessary awareness on the part of veterinary clinicians and all care givers on the need to complete with safety and quality standards.

-Dissertation and Thesis

- Bleeding Efficiency in Chicken- A DVM dissertation, University of Ibadan, Nigeria (1980)
- Studies on the role of distending gas and engorgement of the stomach in the aetiopathogenesis of acute gastric dilatation - volvulus in Dogs. M. Vet. Sc Dissertation. University of Ibadan 1986.
- Prophylactic antibiotics use in gastro-intestinal surgery: evaluation of current practices and ecologic impact-FCVSN dissertation of the fellowship diploma in surgery of the Postgraduate College of Veterinary Surgeons Nigeria (FCVSN 2012)