



FACULTY OF CLINICAL SCIENCES
COLLEGE OF MEDICINE, UNIVERSITY OF LAGOS



13th Annual Scientific Conference & Gathering

THEME

**Environmental Virology,
Exposomics and Epigenetics**

VENUE

Old Great Hall, College of Medicine,
University of Lagos, Idi Araba,
Lagos State

DATE

WEDNESDAY 8TH JUNE 2016

TIME

8.00 am - 5.00pm

• PROGRAMME & BOOK OF ABSTRACTS •

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SUBTHEMES

**Non-communicable diseases: environmental and genetic influences
Public health financing and resource limitation**

CHAIRMAN

Professor Rahamon A. Bello

Vice Chancellor, University of Lagos

SPECIAL GUEST OF HONOUR

Dr. Olajide Idris

Honourable Commissioner for Health, Lagos State

GUEST SPEAKER

Professor Sunday Aremu Omilabu

Professor of Virology

College of Medicine, University of Lagos

VENUE

Old Great Hall, College of Medicine, University of Lagos, Idi Araba

DATE: Wednesday June 8th 2016 **TIME:** 8:00 am – 5:00 pm

Conference website

www.cmulfcconference.com

THE “UNILAG” NEONATAL/INFANT SURGICAL OPERATING TABLE: PROMOTING COLLABORATION BETWEEN SURGEONS AND ENGINEERS TO IMPROVE OUTCOMES

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Background: Adequate perineal exposure in neonates using the normal adult surgical operating table presents peculiar challenges to the paediatric surgeon. This study aims to design a neonatal/infantile table that can enhance exposure for perineal procedures in this age group.

Materials and methods: This neonatal/infantile surgical table prototype is composed of a hydraulic jack, a metallic foot pedal, motors; metal sheets, tyres, mattresses, leathers and Paint. This study evolved the systematic design of a neonate/infant surgical table using hydraulic foot pedal control; motors are employed to achieve mechanically controlled adjustability for both height and lateral movement.

Results: The final product is a neonate/infant surgical table with a main frame, the lifting mechanism, hydraulic system, the height adjustable performance of the four sides for surgical positioning, and the auxiliary surface boards for resting the legs, back, neck and head of the baby.

Conclusions: This neonatal/infantile surgical table should enhance comfort and positioning for easy access to the operating field of the patient as well as improve the ergonomical disposition of the surgeon.

Keywords: surgical operating table, neonate, paediatric, biomedical engineering, Nigeria
