



2018

ANNUAL REPORT

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NIMR... THE FOREMOST RESEARCH INSTITUTE IN NIGERIA

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FEDERAL REPUBLIC OF NIGERIA



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FEDERAL MINISTRY OF HEALTH



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PROF. BABATUNDE LAWAL SALAKO

DIRECTOR-GENERAL/CHIEF EXECUTIVE OFFICER
NIGERIAN INSTITUTE OF MEDICAL RESEARCH

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DIRECTOR GENERAL'S FORWARD



In the past year, the Nigerian Institute of Medical Research continued to improve on implementing its mandate to conduct research into diseases of public health importance in Nigeria. Several research projects were carried out to address some of the greatest disease burden in the country such as HIV/AIDS, tuberculosis, malaria, hepatitis, schistosomiasis, onchocerciasis and other communicable and non-communicable diseases. The outcome of these various research programmes form part of the forty-two scientific articles published in peer review journals during the year under review.

The Institute extended its academic collaboration with universities by signing a Memorandum of Understanding with Lead City University, Ibadan for adjunct research positions for NIMR research staff. This will provide an opportunity for them to be assessed by Lead City University for promotion as research Professors. Within the year, NIMR also signed a Memorandum of Understanding with Federal Medical Centre, Edute-Metta to provide a clinical research environment for NIMR research staff.

The Institute's intramural research funding was keenly competed for and awarded to several deserving research fellows of various categories. Pre and post-doctoral grant supports were given to research staff to assist in their PhD studies and post-doctoral training, respectively. The Institute also awarded research grants to junior and senior research staff working on research priority areas that would provide preliminary data for future external grants. Furthermore, the Institute held a grant writing workshops in Abuja and subsequently in Lagos to produce a curriculum for a biannual grant writing training for young researchers in Nigeria. In view of the inadequate research funding being experienced by the Institute, the management also established the NIMR Research

network and international collaborators of these mentors.

The annual International Scientific Conference of the Institute held with the theme: “Achieving Universal Health Coverage: the role of research”. This was well attended by researchers in Nigeria and diaspora. The Centre for Human Virology and Genomics (CHVG) continued to maintain the ISO 15/89:2012 / and the WHO prequalification standards accreditation for the second year running. The functions of the Institute's Tuberculosis Reference Laboratory were expanded to take on the role of a “Center for Tuberculosis Research” (CTBR) while it continued to serve as a National Reference Laboratory for Tuberculosis. The Centre for Research in Traditional, Complementary and Alternative Medicine (CRTCAM) has continued to research and partner with herbal medicine practitioners to determine the toxicity, tolerability and efficacy of some local herbs in circulation. This is to ensure safety of the products being made available to the public.

The Institute research activities attracted grants from agencies and organizations such as National Institute of Health (NIH), Alexander Bon Humboldt, German Leprosy and TB Relief Association (GLRA), Institute of Tropical Medicine, WHO – AFRO/TDR/EDCTP. Other grants were also received from University of Arizona under the H3Africa Kidney Diseases Research Network,

FHI360 and IHVN. Some funded research projects in the Institute include investigation of Chronic Kidney Disease in Hadeija, Jigawa State in the northern part of Nigeria. This is to unravel the cause of chronic kidney disease in Hadeija which was observed recently to be in high proportion among the Hadeija community. The Institute was also involved with the National Malaria Elimination Program to conduct the 2018 Drug Efficacy Testing for Malaria in three states of the Federation and has started the malaria entomology surveillance study for the next two years in four states of the Federation.

During the year, the Institute maintained its collaboration with national and international agencies and organization including Harvard School of Public Health, Boston, USA, Centre for Disease Control and Prevention, West African Node for Excellence for TB, AIDS and Malaria (WANETAM), College of Medicine, University of Ibadan, University of Lagos, University of Nigeria, University College, London, Federal Ministry of Health, International Institute of Tropical Agriculture, Benin Republic Vector Control Reference Unit, National Institute for Communicable Diseases South Africa, Buruli Ulcer and Leprosy Control Programme, University of Ghana, University of Tokyo, World Health Organization, European & Developing Countries Clinical Trials Partnership (EDCTP), FHI360, IHVN, Co-Creation Hub (CCHUB), an InfoTech

African Reinsurance Corporation and London School of Tropical Medicine & Hygiene.

The annual staff retreat was held in the preceding year to review the Institute's annual activities and chart a way forward. As usual, the management held town hall meetings to dialogue and get valuable feedback from staff on ways of improving management approach. There was massive renovation of the research laboratory complex, research laboratories and staff offices. Notable non-research projects included grading and tiling of in-roads to resolve perennial flooding problems of the institute. As part of the management efforts to attract private sector participation in research, the Institute succeeded in getting MainOne an Internet and Networking Organization to support the research activities of the Institute with 15mbps fibre optic free internet access through CCHub. The Institute's physical location and entrance was rebranded to gain visibility and prominence. The security ambience of the Institute was seriously improved upon in the year under review.

The Institute's main challenge remains inadequate funding and inadequate staff. There is a need to review the Act that established the Institute to reposition it for its role and mandate. There is disparity in the name and the name in the Act. NIMR still need to be rid of dilapidated structures that need to be replaced by modern ones. The E-library construction project remains neglected due to lack of fund. The on-going equipment of laboratories with state-of-the-art technologies to support research needs to be sustained with adequate funding.

Finally, it suffices to say that 2018 was productive for the Institute despite several challenges. Staff efforts and commitments also helped in providing the outstanding leadership and accomplishments recorded this year. As we combat for better financial commitment from government, the Management will continue the drive to accelerate excellence in health research for national development and nation building.



PROF. BABATUNDE LAWAL SALAKO, MBBS (Ib), FWACP, FRCP (Lond), FRCP (Edin), mnim
Director-General/Chief Executive Officer
Nigerian Institute of Medical Research

WHO WE ARE

- *The nation's foremost Institute of Medical Research
- *We carry out medical research in Nigeria of public health importance for national development
- *We collaborate with several institutions nationally and internationally to facilitate enabling environment for medical research
- *We attract some of the brightest and best brains nationally and internationally in research collaborations

VISION

To be an institution of excellence in basic, applied and operational research for the promotion of National Health and Development in Nigeria.

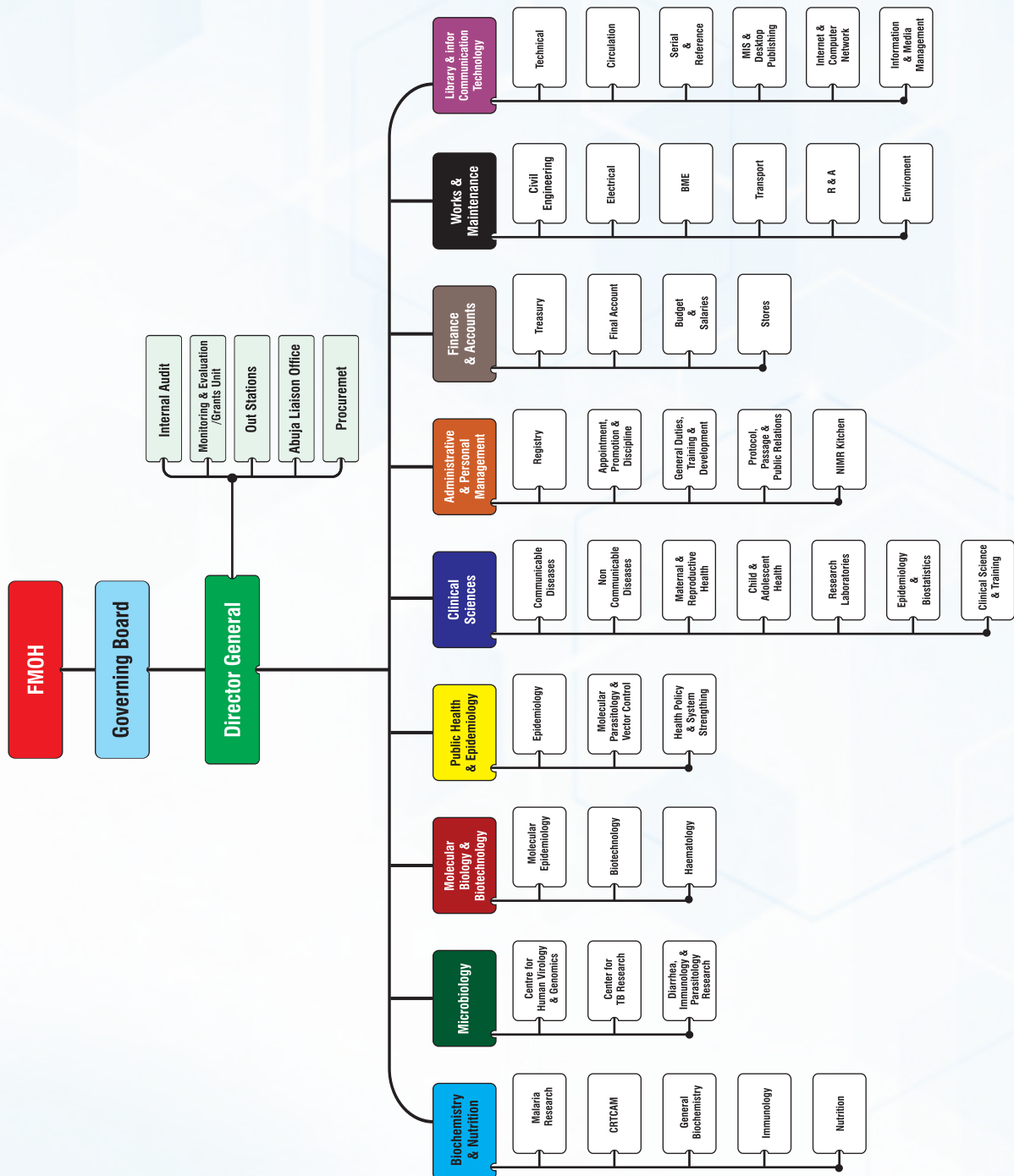
MISSION

To conduct research into diseases of public health importance in Nigeria and develop structures for the dissemination of research findings while providing the enabling environment and facilities for health research and training in cooperation with the federal and state ministries of health and in collaboration with universities, allied institutions and organized private sector nationally and internationally

CORE VALUES

- Honesty, Integrity
- Leadership
- Excellence
- Respect, Fairness, Dignity
- Teamwork, Innovation
- Relevance
- Hardwork
- Fair Reward and Recognition
- Accountability and Transparency
- Communication: Internal and External
- Equity

OUR ORGANOGRAM



RESEARCH ADVISORY BOARD MEMBERS

Prof. Oyewusi Gureje (University of Ibadan)	- Chair
Prof. Babatunde L. Salako (DG-NIMR)	- Member
Dr. Olajide Idris (Commissioner of Health, Lagos State)	- Member
Prof. Ibrahim Abubakar (UCL Institute for Global Health)	- Member
Prof. Folasade Ogunsola (University of Lagos)	- Member
Prof. Sani Aliyu (DG-NACA)	- Member
Prof. Alash'le Abimiku (IHV, University of Maryland, USA)	- Member
Prof. Ayo M. J. Oduola (IMRAT, University of Ibadan)	- Member
Prof. Ighovwerha Ofotokun (Emory University, Atlanta, USA)	- Member
Prof. M. B Shittu (BUK)	- Member
Prof. Oladosu A. Ojengbede (University of Ibadan)	- Member
Prof. Oni Emmanuel Idigbe (Former DG-NIMR & CEO- HUDPHI)	- Member
Prof. Martin Madu Meremikwu (University of Calabar)	- Member
Prof. Stanley N C Anyanwu (Nnamdi Azikiwe Teaching Hosp.)	- Member

PRINCIPAL OFFICERS



Prof. Babatunde Lawal Salako
Director - General / CEO



Alh. A.S. Yunusazazzau
Director & HOD
Administration Department



Dr. (Mrs.) N. N. Odunukwe
Director of Research
(Clinical Sciences Department)



Mr. S. T. Abolarinwa
Director & HOD
(Library & Information
Technology Department)



Engr. E. O. Adedeji
Director & HOD
(Works & Maintenance Department)



Mr. Y. Ogaji
Director & HOD
(Finance & Account Department)



Mrs. T. Malomo
Deputy Director & HOU
(Internal Audit)

NIMR SENIOR MANAGEMENT COMMITTEE

Prof. Babatunde Lawal Salako	Director - General / CEO
Alh. A.S. Yunusazazzau	Director & HOD, (Administration)
Dr. (Mrs.) N.N. Odunukwe	Director of Research/ Deputy DG
Dr. (Mrs.) S.I Smith	Director of Research (MB&BT Department)
Dr. (Mrs.) Akinwale	Director of Research (Neglected Tropical Diseases)
Mr. S.T. Abolarinwa	Director & HOD (Library & Information Technology)
Engr. E.O. Adediji	Director & HOD, (Works & Maintenance)
Dr. (Mrs.) R. Audu	Director & HOD, (Microbiology)
Mr. Y. Ogaji	Director & HOD, (Finance & Account)
Mrs. N. M. Otuonye	Deputy Director & HOU (CDL)
Dr. B. Adewale	Deputy Director & HOD, (Public Health Division)
Mrs T. Malomo	Deputy Director & HOU, (Internal Audit)
Dr. B.A Iwalokun	Deputy Director & HOD (MB&BT)
Dr. (Mrs) A. N David	Deputy Director & HOD, (Clinical Sciences)
Dr. O. O Aina	Chief Research Fellow & HOD, (Biochemistry & Nutrition)

2018 SCIENTIFIC SEMINAR PRESENTATIONS

PRESENTER	TITLE	DATE
Clinical Diagnostic Laboratory Team Mrs A.O. Adagbada Mr. K.A. Akinsinde	Red cell indices as markers of Anaemia in patients attending Clinical Diagnostic Laboratory, Lagos, Nigeria. Antibacterial potentials of probiotics Geo-spatial distribution and characterization of epidemic vibrio cholera 01 El Tor biotype in Nigeria	11th April
Dr. B. Adewale Mr. M.B. Ajayi Mr. S.J. Nduaga Mrs. M.O. Wahab	Impact of single dose praziquantel treatment on schistosomia haematobium infection among school children in endemic community. Myiasis: A neglected vector borne infestation of public health concern Tuberculosis in Nigeria: The activities of the National TB reference Laboratory, NIMR Assessment of plasma creatinine and urea among patients attending Clinical Diagnostic Laboratory, NIMR	9th May 30th May
Mr. Liboro Gideon Mrs. I.O. Edu-Muyideen Mr. Bosun Tijani Dr. A.Z. Musa Mr. A.B. Orok	Effect of antiretroviral therapy on the pattern of metabolic syndrome in HIV infected Nigerians. TB infection control and prevention in health care setting A case for academic research in a changing world REDCap : A Research Data Management Tool Nota Bene: Research innovation and products development, a Sine Qua Non in National Development	11th June 27th June
Uwalaka Chiamaka Henrietta Dr. Bamidele T.A.	Occupational stress and pregnancy outcome: A case control study of all completed pregnancies in Owerri municipal - incomplete Targeted Metagenomic library preparation for illumine MiSeq workflow: Researcher's experience	13th Feb
Mrs. Ogonna F. Mr. Adesesan S. Clinical Sciences Dept.	Prevalence of Parasitic Agents Associated with Diarrhoea in Children under 5 years in Lagos Nigeria. Trends and Risk Factors of Vulvovaginal Candidiasis Among Suspected Patients in Lagos. Access to Youth Friendly Reproductive Health Services Among Youths in Yaba, Lagos.	27th Feb
Dr. Okechukwu P.A. Mrs. Adetunji M.A	Knowledge, Attitude and Preventive Practices Among TB Treatment Supporter at DOTS Centres in Lagos Mainland LGA of Lagos State. Tuberculosis Diagnosis: Experience in National Tuberculosis Reference Laboratory	13th March
Mr. Henry Emmanuel Uzoma Dr. Orok A. Bassey	Toxoplasma Gondii: Sero Prevalence and associated Risk Factors Among Preschool-Aged Children in Osun State, Nigeria. The Recurrent Decimal in Malaria Intervention and Control Programs in Sub Saharan Africa.	10th April
Microbiology Clinical Sciences Dept.	G6PD Assay in HIV Patients on HAART Attending NIMR Clinic. Evaluation of the health effects of radiofrequency radiation amongst communities living close to GSM base station in Lagos.	24th April
Dr. P.O. Ezeuche	An Assessment of the Role of Healthcare Workers, Food Handlers and Environmental as Reservoirs of Vibrio Cholerae in Lagos, Nigeria.	8th May

BIOCHEMISTRY & NUTRITION DEPARTMENT

The Biochemistry and Nutrition Department conducts research in order to provide evidence-based information on the pathogenesis, diagnosis, treatment, prevention and control of communicable and non-communicable diseases of public health importance in Nigeria. Pertinent in the research activities of the department are nutritional investigations into Nigerian foods and food products and their health effects, immunological studies into diseases of communicable and non-communicable

diseases, phytochemical and proximate analysis, Isolation and testing of the active ingredients. The Department has staff strength of 6 Research fellows and 3 support staff. In 2018, two Research Fellows were seconded to the department to strengthen Complementary and Alternative Medicine Research (CRTCAM). The Department has seven units; General Biochemistry, CRTCAM, Nutrition, Immunology, Natural Product Research, Malaria Research and Molecular Parasitology.

Research Activities

A total of 10 Research publications were published by the department

Research Works completed for 2018

- Prevalence of gene deletion in *plasmodium falciparum* hrp2 and hrp3 and its implication for malaria diagnosis in Nigeria.
- Polymorphisms in *P.falciparum* Apical Membrane Antigen-1 (AMA1) and Reticulocyte binding protein homolog 5 (PfPRH5) genes in relation to malaria outcomes in Nigerian children towards effective vaccine development.
- Plasma Levels of von Willebrand factor, TNF- α and thrombocytes count among school children with asymptomatic *Plasmodium falciparum* malaria in Lagos state.
- Cytokine profile and haematological indices in patients with asymptomatic falciparum malaria: A case study in urban slum of Lagos state.
- Plasma levels of interleukin -10 and tumour necrosis factor alpha (TNF- α) among school children co-infected with *Plasmodium falciparum* and Intestinal helminths in Lagos state.
- Community's knowledge and perception on causes and risk factors of malaria in Lagos state.
- Frequency distribution of hemoglobin variants, ABO and rhesus blood groups among patients with malaria in Ijede general hospital of Lagos state.
- The recurrent decimal of malaria Interventions and control Programmes in

sub-Saharan Africa

Ongoing Research Works

- Evaluation of safety and efficacy of eight commonly used medicinal herbal preparation in animal model and humans in Nigeria.
- Immunobiology of babesia with *plasmodium* co-infection.
- Epidemiology of *Mycoplasma genitalium* infection among sexually active women in Lagos, Nigeria.
 - Population genomics of *P malariae* in Southern Nigeria.
- Evaluation of drug therapeutic efficacy testing (DTET) and monitoring of artemisinin based combination therapies (ACTs) in circulation in South West and North Central Nigeria.
- Evaluation of immunological responses to leading malaria vaccine candidate antigens in Nigeria.
- National survey of biomarkers of cancers, cardiovascular and glycemic disorders.
- Evaluation of sensitivity and specificity of Loop-Mediated isothermal amplification (LAMP) for disease diagnosis in Nigeria.
- Evaluation of the impact of fortification and supplementation of some locally produced food in Nigeria.
- National survey of the proximate, mineral and vitamin contents of some canned foods available in Nigerian markets.

- Evaluation of the carbide contaminations in artificially ripened fruits commonly sold in Nigerian markets.

Research Publications: Ten (10)

Conference/Workshops/Training

Attended: Thirteen (13)

Bench work experience (B.Sc., Msc, Phd)

B.Sc	8
February 2018	
M.Sc	3
February 2018	
Ph.D	2
January 2018	

NYSC, Interns and Industrial Training Programmes

NYSC	Two (2)
Interns	Three (3)
IT Students	Forty Eight (48)

Collaboration both internationally and nationally includes Medical Research Council (MRC) – Gambia, University of Tokyo, Japan, University of Ghana, Legon, and Research Institutes.

Achievements

- Training/workshops conducted in the Department: Malaria, ACURET.ORG, RANEXT BASICS.

Grants/Fellowship/Award

- NIMR Non-competitive grants – Investigative approach to toxicology of commonly used medicinal herbal Preparation in Nigeria. PI: Dr O. O. Aina

Work Plans

- The department is developing a tissue/cell and parasite culture laboratories for drug development and testing.
- The department has established a platform for clinical trials of vaccines and drugs.
- The department has capacity to train growing population of members of the public on novel drug discovery and development through the Centre for Research in Traditional, Complementary and Alternative Medicine.
- We hope to collaborate with international organizations for continued monitoring of drug resistance especially in the areas of malaria research.
- We have capacity for research into Non-Communicable Diseases and other degenerative diseases research for global impact.
- We have capacity for research into nutrition based research for global impact.

CLINICAL SCIENCES DEPARTMENT

The Clinical Sciences Department has been in existence for the past 14 years and has undergone various evolutions to its present state. The various activities of the CSD with key focus on research, service delivery and capacity development. The department acknowledges the tremendous support and contribution of the Implementing Partner for HIV/AIDS services, Family Health International (FHI 360), to the accomplishments of the Department in 2018. Our HIV/AIDS programme continues to be among the largest and the best in the country with

cumulative enrolment above 25,000 including adults, pregnant women and children; mother to child transmission (MTCT) rate less than 1%; loss to follow up (LTFU) rate of less than 20%, and mortality rate of about 3.3%. The Department is structured into three broad sections of Research, Programme Support and Projects, and Clinical and Laboratory Services. There are 9 subunits; Clinical, Administrative, Medical Records, Data Management, Counseling, Pharmacy, DOTS, Nursing and Accounts. Each with a unit head that reports directly to the Head of Department. The Departments also works

very closely with the Centre for Human Virology and Genomics (CHVG) and the Centre for Tuberculosis Research (CTR). The centres provide laboratory support for our HIV and TB programmes respectively.

Staff on Postgraduate Training: Nine (9)

NYSC Members in year 2018: Six (6)

Collaborators:

University College-London (UCL), Saint Louis University - Missouri; University of North Carolina, and New York University, USA, Babcock University-Ilishan, Federal Medical Centre (FMC)-Ebute Metta, Lagos Nigeria.

Activities of the Department

Research Division	Research Work	Staff involved
Child & Adolescent Health (CAH)	<ul style="list-style-type: none"> Knowledge and attitude of Healthcare workers to Childhood TB Transitioning to adult care among adolescents living with HIV in Nigeria Seroreversion time and associated factors among HIV exposed uninfected infants in Lagos Effectiveness and acceptability of SMS reminders for ARV adherence in Adolescents living with HIV. 	Drs David, Gbajabiamila, Wapmuk, Odubela, Musari-Martins, Okwuzu, Musa, Ms Idigbe and Mrs Ekama,
Communicable Diseases (CD)	<ul style="list-style-type: none"> A study investigating the risk factors and treatment outcome of patients with MDR TB in Nigeria 	Drs Gbajabiamila, Onwujekwe, Ezeobi, Okwuzu.
Maternal and Reproductive Health (MRH)	<ul style="list-style-type: none"> Innovative Tool to Expand HIV Self-Testing (ITEST) among Nigerian Youth Boca Projects – Population prevalence of HIV. HBV and HCV and Kits development 	Drs Ezechi, Gbajabiamila, Oladele, Musa, Ms Idigbe.
Non-Communicable Diseases (NCD)	<ul style="list-style-type: none"> Prevalence and Pattern of Medication Errors in HIV treatment in Lagos 	Drs Odunukwe, Wapmuk, Mrs Ekama
Epidemiology and Biostatistics	<ul style="list-style-type: none"> A cross sectional study of HIV as a risk factor for COPD in urban West Africa A blinded cross sectional study to investigate the efficacy of a deep convolutional neural network for diagnosing tuberculosis in digital chest radiographs A study of the association between water sanitation and hygiene (WASH) practices and prevalence of diarrhoeal diseases among HIV infected persons in Lagos, Nigeria Impact of Digital Health (NIMCURE) for Drug Adherence Enhancement in TB 	Drs Oladele, Odubela, Musari-Martins, Musa Mr Amoo (CHVG)

Conferences Attended: Eight (8)

Capacity Development/Trainings & Workshops: Ten (10)

Publications in peer review journal

Research Division	Number of publications
Child and Adolescent Health	7
Communicable Diseases	2
Maternal and Reproductive Health	8
Epidemiology and Biostatistics	3

Achievements

- The Department has the most user-friendly ART Clinic in Nigeria
- The Department has a TB DOTS Clinic which has recorded high cure rates for tuberculosis in Lagos State
- The Department's Out-patient Clinic continues to provide services to clients even during periods of industrial actions and public holidays.
- Refurbishment of the HIV clinic's infrastructure
- Dedicated staff members

Work Plans

- Strengthening of research activities by devoting more time to research.
- Strengthening of the Departmental seminars and research sessions and integrating adjunct researchers/ professors into all CSD activities.
- Pairing of young researchers and scientists with more experienced researchers for mentorship purposes.
- Continuous advocacy for infrastructural and human capacity development.
- Modification of mode of service delivery to better satisfy clients' needs.

MICROBIOLOGY

DEPARTMENT

The Microbiology department comprises of three entities; Center for Human Virology and Genomics (CHVG), Diarrhea, Immunology and Parasitology Research (DIPR) Division and Center for Tuberculosis Research (CTBR). The activities of the department are mainly research, service delivery and capacity development. Recently, the Institute of Human Virology Nigeria (IHVN) seconded three personnel to strengthen human capacity at the CTBR for effective service

delivery. In a similar manner, the Director General approved the appointment of four (4) adjunct researchers for the department so as to strengthen research capacity. The department has total number of 63 staff.

Research Activities (Completed & On-going)

- Surveillance of Lassa fever virus in Ondo state (On-going)
- Characterizing virus dynamics and population immunity to the polioviruses in difficult-to-reach areas in Nigeria (On-going)

- Molecular Epidemiology of *Mycobacterium tuberculosis* (On-going)
- Microbial Analysis of water in a Government facility in Lagos (On-going)

Number of Research Publications:

Seventeen (17)

Number of Conferences

/Workshops/Trainings Attended: Twenty Eight (28)

Number of B.Sc, M.Sc, and PhD students being supervised: Nine (9)

Number of NYSC/Industrial Training Students: Fifty Eight (58)

Collaborators both internationally and nationally include Institute de Pasteur, Dakar, Senegal

Centres for Disease Control and Prevent (CDC), Abuja & Atlanta, Centre of Excellence in Genomics and Infectious Diseases – RUN, Ede, Federal Ministry of Health, National Tuberculosis and Leprosy Programme Control (NTBLPC).

Achievements

- Listing of CHVG as a pre-qualified laboratory for in-vitro diagnostics.
- A staff received an awarded of EDCTP TMA Fellowship grant.
- The head of department presented the 8th distinguished lecture at the Institute International Conference.
- CHVG was listed as a WHO Prequalification Evaluating Laboratory
- Successful laboratory renovation and inclusion of staff Lounge at CHVG
- Upgrading and facelift of infrastructural facilities at the DIPR Division
- CHVG held a successful external team building activity.
- NIMR Award Recipients: Mr. O. S. Amoo received Young Scientist award and Ms. A. Gambari received Up-coming Scientist award.

- Implementation of Quality Management System in DIPR

Grants/Fellowship Awards

- WANATEM Consortium on diagnosis of TB and management of Childhood TB funded by EDCTP.
- Tri Country Evaluation study of Rapid Diagnostic Tests (RDTs) detecting antibodies against hepatitis C virus by FIND.
- Performance evaluation of the Genedrive HCV ID Kit for decentralised diagnosis of active hepatitis C from human plasma by Genedrive.

Way Forward

- Improve team building activities and mentorship programme to improve research output
- Improve laboratory and biosafety facilities
- Purchase more cold storage facilities
- Strengthen quality management system and expand scope of accreditation

Work Plans

- Attracting more research grants and collaborators.
- Establishment and commercialization of bio-banking.
- Strengthening of infectious control and biosafety programme in the department
- Expanding the scope of ISO 15189 accreditation.
- Obtaining WHO HIVDR recognition
- Organizing more team building activities for staff.

MOLECULAR BIOLOGY & BIOTECHNOLOGY DEPARTMENT

During the year 2018, members of the Department were involved in research activities in the department and other Research Groups in the institute namely: Malaria, HIV/AIDS and TB, Non-Communicable Diseases and Emergency Preparedness and Response (EPR). There are eleven member of staff in the department

Conference attended: Two (2)

Number of students on industrial training:
Thirty two (32)

Collaborators both internationally and nationally include Centre for Proteomics and Genomics Research (CPGR), Cape-Town, South Africa, National Institute of Cholera and Enteric Diseases, Robert Koch Institute, Berlin, Germany.

Achievements:

- The Department co-facilitated the International Carnegie Diaspora Fellowship Training Programme in collaboration with Albany State University, USA and Osun State

University, Nigeria.

- The Department facilitated local research capacity development in proposal writing, proteomics in collaboration with Covenant University, Ota and Mountain Top University, Ogun State Nigeria.
- The Department hosted and facilitated World Bank funded molecular biology training on species diagnosis of trypanosomiasis in collaboration with the African Centre of Excellence, Ahmadu Bello University, Zaria, Nigeria.
- The Department got a renewal of World Bank grant 2020 – 2025 on Forensic Biotechnology and Trypanosomiasis through the African Centre of Excellence platform in collaboration with Ahmadu Bello University, Zaria, Nigeria.
- The Department acquired new World Bank grant 2020 -2025 on Food Safety and Mycotoxin through the African Centre of Excellence platform in collaboration with Ahmadu Bello University, Zaria, Nigeria.
- A total of 2 PhD students and 8 MSc students from University of Lagos & Olabisi Onabanjo University were co-supervised.
- Capacity of staff was built for genomic and metagenomics research with focus on antimicrobial resistance, pathogen biology and evolution.
- The Department remained steadfast in its capacity building of University students and research scientists with 32 IT undergraduate students and 2

postgraduate students trained and given placement to do their bench work.

- The Department continued the implementation of three (3) international and two (2) intramural grant projects that started in 2016-2017.
- A total of 8 intramural grant proposals (4 successful, 1 under review) 5 international (extramural) grant proposals (3 successful and 1 under review) were written by members of the department in 2018 as principal investors or co-investigators
- Dr B.A Iwalokun gained promotion to the position of a Deputy Director of Research
- A total of 5 local and international researchers joined the department as adjunct professors in 2018
- Dr. B.A. Iwalokun became a certified professional in Biosafety and Biorisk Management from International Federation of Biosafety Associations (IFBA), Canada
- A total of 14 papers were published in peer reviewed journals by members of the department in 2018.
- Dr. Bamidele T. A won NIMR intramural postdoctoral research training/travel grant.
- Dr. Bamidele T. A underwent postdoctoral internship in genomics core at the Medical Research Council Unit, The Gambia at the London School of Hygiene and Tropical Medicine (MRCG-LSHTM).

New Awarded Grants for 2018

NIMR Intramural/Priority Projects

- EPR project on *Vibrio cholerae* carriage amongst health care workers and food handlers sponsored by NIMR which cuts across MBBT, Microbiology, CSD, CDL, PH & E (PI. Dr. S.I. Smith, Status: on-going)
- Polio virus dynamics in hard-to-reach area of Lagos State (Co-investigator, Dr. B.A. Iwalokun; Status On going).

Pre-Doctoral Training Grant

- Mr. Yisau Jacob (Status: On-going)
- Mrs. Ajoke Adagbada (Status: On-going)

Post-Doctoral Travel Training Grant

- Dr. Tajudeen Bamidele (Status: Completed in 2018)

International Grants

- African Centre of Excellence for Forensic Biotechnology and Trypanosomiasis (Renewal; Dr. S.I. Smith (Co-investigator); Status: On-going)

- African Centre of Excellence for Food Safety and Mycotoxin Research (New, Dr. B.A. Iwalokun (Co-investigator); Status: On-going)
- International Society of Hypertension: The SyMBOIIC Study: Association between selected biomarkers and Ambulatory Blood Pressure Pattern in African Chronic Kidney Disease and Hypertensive Patients Compared with the Control (Dr. B.A. Iwalokun (Co-investigator); Status: On-going)

Work Plans:

- Implementation of 2018 Work Plans developed by the department
- Strengthening of collaboration with Nigerian Universities
- Building capacity for the analysis of whole genome sequence data of bacterial pathogens
- Building capacity in proteomics and metagenomics
- Organising training workshops on Proteomics and Bioinformatics
- Improving on the number of proposals submitted for funding per year

PUBLIC HEALTH & EPIDEMIOLOGY

DEPARTMENT

The Public Health and Epidemiology Department primarily conducts research to strengthen public health and health system to inform policy formulation. In consonant with the mission of the department to conduct investigations on the interaction between hosts, pathogens and vectors using multifaceted approach to solving problems in Parasitology, entomology, health system, the department has been involved in the timely and rigorous conduct of research on diseases of public health importance in Nigeria. The total

number of Staff in the department is thirteen. The department's areas of focus are mainly Tropical diseases, Health Systems and Bioethics. The three main laboratories in the department are:

- Onchocerciasis and Intestinal Helminths Research lab.
- Molecular Parasitology Research Lab
- Molecular Entomology and Vector Research Lab

All the laboratories have been of tremendous support to the national control and elimination programmes through collaboration with the

Federal Ministry of Health.

Research Activities (Completed & Ongoing)

- Buruli ulcer (BU) diagnosis using real time PCR. (ongoing)
- Genetic epidemiology study of BU in Nigeria. (ongoing)
- A decade of Post Ivermectin Treatment: Serological Assessment of the Status of Onchocerciasis
- Assessment of Insecticide Resistance and Vector Surveillance Sites in Nigeria

Number of research publications: Nine (9)

Number of Conferences/Workshops

/Training Attended: Nine (9)

Number of B.Sc., MSc, PhD students

supervised: Twelve (12)

Number of NYSC/Industrial Training

Students: Twenty Eight (28)

Collaborators both Internationally and Nationally include German Leprosy and TB Relief Association (GLRA), Collaboration with University of California San Diego (UCSD), USA.

Achievements (Landmark)

- Submitted a joint MoU with the Pan African Mosquito Control Association to Bill and Melinda Gates Foundation for research capacity strengthening
- Pre-Doctoral Research Development Grant under the Institute's Graduate

Initiatives Programme. Mr A. K. Adeneye

- One RT-PCR thermocycler procured through a grant.
- Acquisition of a -20 freezer
- A collaborative research funding obtained with the ABT associate project
- A network was established with Research Triangle Institute (RTI) USA

Grants/ Fellowship Awards

- Travel Fellowship- Workshop on Parasitic Nematodes, New York University, Abu Dhabi. January 4 – 6, 2018.
- Equipment grant- One RT-PCR thermocycler procured through a grant.

Way forward

- Employment of more research fellows in specialized areas
- Focused attention in securing funding for research
- Increase training opportunity and sponsorship for staff

Work Plans

- Conducting and enhancing research activities that will contribute to the promotion of the well-being and health status of the people of Nigeria.
- Increasing the financial resources available for research through the attraction of grants by submission of proposals in basic, applied and implementation research to various funding bodies.

MONITORING & EVALUATION DEPARTMENT

The Monitoring and Evaluation Unit is charged with providing statistical support, coordinating and supporting Data management and Monitoring & Evaluation activities for the various Departments and Units in the Institute. Our specific roles include providing technical support for research processes and deliverables as well as formulating performance indicators to measure research outputs to enhance decision making. Our M&E systems are designed to ensure timely collection of quality data during and after the

implementation of a project/program as outlined in NIMR strategic plan/Work Plans. The numbers of staff in the unit are ten (10)

Research Activities (Completed & Ongoing)

Research Grants in the Unit

- Study on Prevalence of HIV & AIDS among road transport workers and the associated risk factors supported by Lagos State AIDS control agency. - Ongoing PI: Dr.A.Z Musa
- The H3Africa Kidney Disease Cohort

Study supported by NIH. - Ongoing PI: Dr. A.Z Musa

- Situation Analysis, Need Assessment and Intervention Programme to develop Grants Management in Nigeria Institute of Medical Research. - Ongoing PI: Dr. A.Z Musa

Research Projects Supported by the Unit

- Drug Therapeutic Efficacy Study
- Entomological Surveillance
- Vector Link Management of Natural Entomological Surveillance Database
- Burden of Lassa Fever, Status of Its Management and Prevention in Nigeria
- I-Test
- Impact of Digital Health for Adherence Enhancement in Tuberculosis Therapy
- An Appraisal of the Operations of Health Insurance Schemes in Nigeria
- A study Investigating the Risk Factors and Treatment Outcome in Patients with Multiple Drug Resistant Tuberculosis in Nigeria
- Survey on Early warning indicators of HIV Drug Resistance in Lagos state

Number of research publications: Two (2)

Number of Conferences/Workshops/Trainings attended: Six (6)

Collaborations (International and National)

- NMEP, VECTORLINK, PMI, WHO and Global funds, University of Arizona, H3 Africa Consortium.

Achievements (Landmark)

- Supported Research studies on statistical issues in project proposals, studies and manuscripts development.
- Supported the National Malaria Elimination Program (NMEP) in coordinating and monitoring the conduct of the 2018 malaria therapeutic Efficacy Study which was recently concluded.

Work Plans

- Continued improvement on the effective implementation of research activities in the institute.

Way forward

- To achieve a sustainable M&E system and achieve set goals for the Unit, we require:
- Licensed statistical packages for data analysis.
- Designated M and E focal person(s) from each department and unit that will liaise with M&E unit to enhance M & E activities in the Institute.

INSTITUTIONAL REVIEW BOARD (IRB)

NIMR-Institutional Review Board has remained a pacesetter and in the fore front of providing support to research and other ethics committees in the country. The Director General, Professor Babatunde Salako, approved the reconstitution of the new NIMR-IRB and inaugurated it on the 1st Sept., 2016. The Board consists of seventeen (17) members including eight (8) old members yet to complete their term and eight (8) newly nominated members who were to serve on the board. Dr. Oliver Ezechi, Obstetrician

Gynaecologist and Public health expert remains the Board Chairman and Mrs. Olayemi Nwogbe an Information Scientist a Member/Administrative Secretary. The Secretariat consists of the Chairman, Vice Chairman, Secretary, Assistant Secretary and two administrative support staff (Desk Officers). The Secretariat coordinates the activities of the Board as well as ensure timely processing of submitted protocols. All protocols are submitted to the Secretariat in both hard and soft copies. However, electronic submission only is allowed for

persons residing outside Lagos or Nigeria

Research Protocols

A total of sixty six (66) proposals were submitted to IRB in the year 2018. Of the submitted protocols, forty-six (46) were approved and twenty (20) were at different stages of approval process. The research protocols were of four categories;

- NIMR staff protocols
- Non NIMR staff (individuals) protocols
- NGO/CSO and multinational organizations protocols
- Students from various universities and polytechnics.

Meetings and Conferences

The board participated in a number of meetings and conferences in the year 2018.

Collaborations

- The Board was involved in a number of collaborative activities with the following organization and bodies;
- New HIV Vaccine and Microbicides Advocacy Society (NHVMAS),
- South African Research Ethics Training Initiatives (SARETI),
- West African Bioethics Training Programme (WABTP)
- National Health Research Ethics Committee (NHREC)
- WATERS, Senegal
- Federal Medical Centre (FMC) Ebutte-Metta.

Work Plans

- Capacity-building for members of the Board and researchers
- Training for Secretariat staff
- Computerization of administrative/secretariat procedures
- Increase awareness on ethics of research and good research practice for stakeholders
- Renovation of IRB Secretariat

Way forward

- Renovation and equipment of the IRB Secretariat
- Automation of the IRB process
- Training and Retraining of IRB staff and members

LIBRARY & INFORMATION TECHNOLOGY DEPARTMENT

There are two divisions in the department namely: Library division and the Information Technology division. The Library division is responsible for providing information services to its patrons namely research staff and non-research staff of the Institute. The Information Technology division on the other hand provides support to research activities in the institute through the provision of internet facility, computer maintenance, multimedia support, social media and web content development. The year 2018 was fascinating

for ICT division due to remarkable progress made in acquiring state-of-the-art network equipment such as gigabit switches and gateway appliance (Sophos) for effective management of the internet. The division with support of CC-Hub secured free b30mbps internet bandwidth from MainOne to the institute. Also the division successfully extended internet connection to all official areas within the institute.

Activities

The activities in the department include:

- Accessioning, cataloguing and classification of textbooks that are received in the library.
- The provision of current awareness, compilation of bibliographies on tropical subjects, electronic literature searches, sourcing of information on grants and fellowships on the Internet for research scientists. Articles, reports and captions that focus on NIMR and other tropical health issues in national dailies.
- Shelf reading and shelving of periodicals and books.
- Sourcing of information on grants and fellowships on the Internet for research scientists.
- Compilation of the Institute's annual reports, NIMR newsletter and research staff publications
- Management of the institute's website
- Management of the institute internet infrastructures
- Network configuration, administration, troubleshooting
- Desktop publishing
- Strengthening capacity of NIMR Staff on computer skills acquisition
- Management and maintenance of computer system: installation of accessories, diagnoses and repair.

Conferences and Workshops: Five (5)

Achievements

- 2017 edition of Annual report was compiled

- 2016 edition of NIMR newsletter was compiled and produced.
- NIMR research staff publication were updated
- Expansion of Internet coverage within the office areas
- Upgrade of bandwidth from 2mbps/2mbps to 20mbps/20mbps
- Acquisition and deployment of Internet Firewall & Gateway (Sophos)

Work Plans

- Compilation of additional bibliographies
- Subscription to additional databases
- Extension of Internet to residential/ biomedical center
- Installation of Video Conferencing equipment facility in the Institute
- Organization of in-house trainings for staff across Units and Departments
- Acquisition of Computer and network tools

Way Forward

- Staff motivation
- Staff training & retraining
- Provision of adequate work space; speedy completion of ongoing E-library
- Employment of competent and qualified staff to resolve staff shortages.
- Provision of adequate working tools

CLINICAL DIAGNOSTIC LABORATORY

Year 2018 started well with Capacity Building on Biosafety cabinet class 2 which has been concluded. This is one of the most essential equipment for infection containment in the lab. Biological safety cabinets use high efficiency particulate air (HEPA) filters in their exhaust and/or supply systems. This filtered cabinet is primarily designed to protect against exposure to particulates, including biological agents used in the laboratory. Protection against exposure from fumes generated by radionuclides and toxic chemicals is only provided by Class II, Type B biosafety

cabinets, which are ducted directly to the facility exhaust. A proposal requesting that CDL be converted to a department which is one of CDL 2018 strategic plan was completed and the Management set-up a committee to deliberate on the issue. CDL is operating under four Units and these include: Haematology, Clinical Chemistry Microbiology/Parasitology and Serology.

Strategic Plan Activities

- Training on Pre-analytical process in CDL
- Training on Basic malaria Microscopy

- Updated training on Sysmex haematology analyzer
- Training in the use of Biosafety cabinet level 2
- Training on Semen collection through semi -andrology Methodology
- Medical Fitness tests, Pre-Marital tests, Pre-employments test Occupational Health screening tests, Full and Reduced Comprehensive tests, Food Handlers test and occupational health screening test.
- National kit evaluation (panel preparation for HIV and post market evaluation

Research Projects and Publications: Six (6)
 Conferences and Workshops Attended: Four (4)
 No of Medical Laboratory Scientist Interns: Four (4)
 No of Students on Industrial Training: Two (2)

Achievements

- CDL contributes to NIMR internally generated revenue.
- Quality, reliable and reproducible results are generated in CDL for patients' management.
- CDL contribute to manpower development through internship training of newly graduated Medical Laboratory Scientists and undergraduate students on industrial attachment.
- CDL contribute to improving public health through screening of food

handlers and domestic staff.

- CDL collaborated with other Research Departments, Divisions and Units in NIMR.
- Mr. SK Akindele was also certified as a WHO Level 1 Malaria Microscopist at a training in Nairobi, Kenya in 2018

Infrastructural upgrading:

- Biosafety cabinet Level 2
- TC-3300Plus Biochemistry Analyzer Teco Diagnostics USA
- Purchase of Biosafety Cabinet class 2
- Training on the use of Biosafety Cabinet was done in collaboration with Maintenance department

Planned Activities

Medical Laboratory Scientists being trained on the use of Biosafety Cabinet

- CDL will engage in intensive marketing using the Institute's website, Consult, and handbills
- To reduce the Turn Around Time of our test results
- To increase the tests portfolio/test menu in CDL thereby increasing our income through aggressive marketing
- Advocacy visits to management for the implementation of the departmental proposal
- Request for laboratory and office space expansion
- To improve the staff productivity through manpower development (Ph.D, M.Sc,

Fellowship, CPD, Local Regional and International Trainings and conferences)

- To communicate more of our research findings through publications in peer review journals
- Solicit to establish positions of director based on the new unit
- Request for additional manpower
- Training of appropriate CDL Staff on relevant techniques
- Identification of lab spaces for HLA and Andrology services
- Procurement of relevant equipment

Challenges

- The space in CDL is inadequate. Previous auditors/Assessors had complaints about this inadequate space too.
- No Equipment Service/Repair Contract agreement with reputable service Engineers.

Suggestions on the way forward

- There is need for expansion of the Lab and office spaces in CDL
- There is need for contract agreement with experienced and competent Equipment Engineers (Biomedical Engineers).
- There is need for recruitment of at least two laboratory technicians.
- Training and retraining of staff both locally and internationally to be abreast with modern technology
- To improve the staff productivity through manpower development (Ph.D, M.Sc, Fellowship, CPD, Local Regional and International Trainings and conferences)
- To communicate more of our research findings through publications in peer review journals

ADMINISTRATION

DEPARTMENT

The Administration Department is the arm of the Institute charged with the responsibility of providing administrative and support services to the Institute. The Department is required to create an enabling environment for the conduct of research through the discharge of its Personnel Management and Administrative functions. The staff of the administration department are twenty-eight in number. Divisions and units in the department include Registry, Appointment, Promotion and Discipline, Pension & Welfare, General Duties, Training and

Development and NIMR Kitchen

Activities of the department in 2018

The activities of the Administrative Department in 2018 includes:

- Provision of Secretarial Services to the Standing Committee of the Institute and in that capacity prepared agenda and the necessary working papers for standing committees meetings as directed by the Director-General.
- Gave advice to Management on administrative and personnel issues
- Implement the Institute's personnel

management functions such as recruitment of staff, training & development, salary administration including allowances, leave matters, staff posting, discipline and withdrawal of service in the form of retirement, resignation of appointment, termination, dismissal from service as the case may be as well as processing of staff Annual Performance Evaluation Report.

- Management of staff welfare matters and implementation of approved policy on Medicare, Pension, Housing etc.
- Handling of the Institute legal and Insurance matters
- Keeping and updating of staff records.
- Liaised with the Finance & Accounts Department and various Research Departments in the preparation of the Institute's Development Rolling Plans & Annual Budgets
- Supervision of the Security Unit
- Handling of official administrative correspondence of the Institute with its public
- Undertook other duties as assigned.

Conference/workshop/training

The Department facilitated the conduct of leadership training/workshop for fifty-four (54) staff of the Institute on 19th February, 2018. A total of four senior staff of the administration department were trained at ASCON on Human Resource Management, General Administration and Management of Secretarial functions. However, other staff of various Departments/Units also underwent trainings in year 2018.

NYSC/Industrial Training Programmes

The Department had absorbed some NYSC members, enrolled students for the Industrial Training Funds (ITF) Scheme, Bench Space and Internship as follows:

Bench Space Eleven (11)

Internship Five (5)
NYSC Twenty six (26)
IT Scheme One hundred and
Thirty Six (136)

Achievements

- Obtained establishment positions and conducted 2018 Promotion Exercise for qualified staff. Issuance of letters to successful candidates while that of the Research Fellows is still on going. The number of staff promoted in 2018 and converted are indicated below:
 - Senior Staff - Sixty-nine (69)
 - Junior - Thirty-Seven (37)
 - Conversion - One (1)
- The Administration Department facilitated the smooth retirement of 10 staff in 2018.
- The Department also facilitated the appointment of 16 project staff and 10 Adjunct Researchers in 2018.
- Administration Department wrote to various Universities and received two (2) responses from Lagos State University and University of Lagos on proposal to Partner with Nigerian Universities for Adjunct Lectureship positions for professional cadre.
- The Department facilitated the establishment of an MOU with Federal Medical Centre, Ebute-Metta for collaboration on research and capacity building.
- The Department has continually provided Secretarial support to all the standing and ad-hoc Committee, in the Institute.

Staff Demise

The Institute lost one member of staff in the year 2018, Dr. Jerry Iwuora, a contract staff and Gastro-enterologist who coordinated the Hepatitis Clinic of the Department. May his soul rest in peace.

FINANCE & ACCOUNTS DEPARTMENT



The Finance and Accounts Department is the organ of the Institute that handles all financial transactions and manages its financial resources. The department has current staff strength of twenty four (24) members spread across four Units – Other Charges, Final Accounts, Budget & Salaries and Stores Units. In addition, there are other accounting sub-units handling Centre for Human Virology and Genomics (CHVG), Clinical Sciences Department (CSD) and Clinical Diagnostic Laboratory (CDL), all reporting to their respective Units. The department

performs a wide range of accounting functions which cuts across areas such as maintenance of relevant books of accounts, budget compilation and defence, preparation of final accounts of the Institute For external audit, management of Internal and external grants, Supervision and control of Stores, Performance of banking Related functions, financial advisory services, overseeing and monitoring of revenue collection at revenue centers in the Institute.

Staff Training and Development

- Three members of staff attended 48th

Annual Accountants Conference of **ICAN** 2018 in Abuja.

- Two other members attended courses on **Financial Management** and **Final Accounts Preparation in Government** at the Administrative Staff College of Nigeria (**ASCON**) in Lagos, 2018

Activities of the Department

- Budget defence at the National Assembly
- Collaboration with External Auditors for Annual Audit
- Grants / Domiciliary Accounts Management

- Maintenance of relevant accounting information

Financial Highlights

The Institute still relies heavily on funds generated internally through its revolving funds to sustain its programmes and activities because subventions coming from the Federal Government are grossly inadequate thereby creating huge funding gaps. Funds released to the Institute are categorised under *Capital*, *Overheads* and *Personnel*. The table below shows a Comparative Analysis of budget performance for 2018 and the preceding year.

Budget Head	2017 Appropriation (N)	2017 Releases/Expend (N)	2018 Appropriation (N)	2018 Releases/Expend (N)
Capital	155,627,508.00	77,813,753.00	1,292,441,262.00	990,744,126.20
Overheads	32,241,641.00	19,248,233.03	32,241,641.00	18,807,623.00
Personnel	707,723,511.23	707,723,511.23	652,748,404.00	760,475,721.00
TOTAL	895,592,660.23	804,785,497.26	1,977,431,307.00	1,770,027,470.20

Based on the above budget performance summary, the overhead allocation to the Institute remained very low in year 2018 and even lower when compared to the preceding year. The personnel funding is 100% borne by the Federal Government and does not make any meaningful impact in the analysis. Poor overhead funding had put a lot of pressures on internally generated funds as the running costs of the Institute are financed from this allocation. The capital allocation to the Institute witnessed significant improvement in 2018 giving a boost to Research Activities and Capital Projects execution. Out of **₦1.292 billion** appropriated, **₦990.7 million** was released to the Institute. This release represents 76.7% of the capital budget allocation for 2018.

Aids and Grants (both Internal & External) received during the year under review totaled **₦183.2 million**. This is purely for

research activities in the Institute.

Achievements / Goals

- Successful completion of audit of 2015 Final Accounts of the Institute and 90% completion of that of year 2016 were major achievements.
- Improved capital allocation to the Institute in year 2018
- Sustained human capital development in the department
- Improved staff motivation

Work Plans

- Maintenance of reliable data base for all NIMR assets
- Improvement of working environment for the staff
- Completion of 2016 Financial Statements audit and commencement of preparations for 2017 and 2018 Financial Statements audit
- Productivity improvement

INTERNAL AUDIT UNIT

Internal Audit Unit is responsible for the internal auditing of the Institute's accounts and those for the Out-stations where such exist. The main purpose of Internal Audit is to ensure efficient and effective System of Control (Internal check, security and control of cash, stores, assets etc.) and adequate system of accounting as laid down by financial regulations and other financial circulars are maintained and the books reconciled. The ultimate aim is to ensure that all accounts and vouchers prepared or received are harmonized. Internal Audit should also in addition to the normal auditing

process, examine the Internal controls, security measures, spot checks, thereby ensuring that adequate measures exist to enforce the observance of the regulations governing the receipts, custody and issue of cash and stores. The unit has a total number of nine (9) staff.

Number of conference/ workshop /training
= One (1)

Activities

- Provide financial advice
- Inquire and investigate financial appropriation.

- Other activities as may be directed.

Achievements

- Timely processing of vouchers and elimination of delay except where necessary.
- Eliminate loopholes in payment for good/services not supplied through Issuance of Certificate for job done/goods supplied and endorsement from end user obtained.
- Provided major supervising role in the renovations of staff quarters.
- The Internal Audit ensured that the Institute obtains value-for-money in respect to payment for government goods and services. It ensures that goods or services procured conform to specification and bought within a reasonable value without compromising quality.
- The Internal Audit also carried out investigation on financial matters and issues that were of importance and concern to management.

Work Plans

- Ensuring that the systems for control of Income and Expenditure are adequate.
- Ensuring that Accounting Records are properly and accurately kept.

Way Forward

- Training of staff in the unit be given priority
- Adequate technical staff should be deployed and employed in the unit
- New equipment should be provided to enhance the unit's performance

PROCUREMENT UNIT

The objective of the Procurement Unit is to obtain the best possible value for money on behalf of the Federal Government of Nigeria while rigorously maintaining the procuring entity's business principles and agreement under which it operates. It is the bureau's policy that services, materials and equipment should be acquired by procuring entities at the most favourable terms compatible with desired quality delivery requirements, taking account of total life cycle costs and in a manner that safeguards and preserves the reputation of the procuring entity. The

number of staff in the unit is three (3)

Achievements

The unit ensured standardized operational process in the procurement of goods, works and services;

- Procurement of Laboratory equipment.
- Procurement of other office furniture, equipment and other consumables.
- It ensured zero tolerance on white elephant project, deception, avoidable delays and non-transparency in the procurement of goods, works and services.

- Procurement laid down threshold was followed as spelt out in the procurement Act.
- Improved procurement documentation.
- Proper use of Procurement Plan.

Challenges

- The key challenge in the procurement process is delay in the release of budget allocation.

Way forward

The need to enlarge the pool of contractors that compete for public contracts so as to produce competent contractors who can provide the desired needs, works and services at the best price, right quality, right quantity, from the right source and at the right time.

Work Plans

- Ensuring timely and efficient procurement of goods, works or services
- Ensuring safety of public funds in the procurement process.
- Ensuring all qualified bidders are given equal opportunity to compete.
- Ensuring transparent, timely, equitable and accountable procurement process.
- To ensure that the development of local contractors is encouraged in the procurement process.

WORKS & MAINTENANCE DIVISION

The Works and Maintenance Department comprises of Civil, Electrical/Electronics, Refrigeration and Air-conditioning, Transport, Environmental and Biomedical Engineering Divisions. The Department is saddled with the responsibilities of ensuring the management of the existing Institute's Infrastructures by way of regular maintenance through normal duty schedules of its Civil (Carpentry, Masonry and Plumbing), Electrical/Electronics, Refrigeration and Air-conditioning, Transport,

Environmental and Biomedical Division and units respectively. The responsibilities under the schedules mentioned above entail the repairs of reportedly faulty air-conditioners/refrigerators, weak block walls, spoilt furniture, replacement of sanitary wares and appurtenances, incinerating of biomedical wastes, replacement of burnt electrical fittings such as fluorescent tubes, chokes, starters, sockets, plugs, cables etc. The routine service cuts across all the building infrastructures in the Administration Block, Auditorium Building, Main Laboratory

Complex, Works and Maintenance, Centre for Human Virology and Genomics, Molecular Biology and Biotechnology, Clinical Sciences, Centre for TB Research, Clinical Diagnostic Laboratory, Residential Buildings etc. Supervision of the maintenance service of the entire Institute's plants e.g. Generators, Water pumps, Biomedical Waste Incinerator, Cold Rooms, Automobile Vehicles, Electronic Equipment, Cleaning and Gardening Services.

Activities:

Civil Engineering Unit

- A major renovation works was carried out in the old Animal house, upgrading the small house into a single storey building where more scientific animals can be kept and with few offices for staff.
- Painting and decoration works were carried out in Administration block which has not been done for over a decade.
- Total rehabilitation works in plumbing system were also carried out in Administration block and the toilet floors were as well tiled.
- The main laboratory complex was given a face lift by painting and decoration works.
- Also major replacement of outdated galvanized pipes and fittings with modern polyvinyl chloride (pvc) pipes and the necessary fittings for improved performances were made.
- Major civil maintenance works were carried out in Transport division of Works and Maintenance department.

- The clinic in Clinical Sciences Department has also been renovated.
- Some major external civil works and painting were carried out in most senior staff quarters namely Block A, B, C and Essential buildings 1&11.
- The driveway to blocks A, B, C staff quarters and frontages / packing lots were rehabilitated and the worn out road surface was also resurfaced and re-asphalted.

Electrical Engineering Unit

- Load Balancing on Transformers for power sustainability.
- Carried out proactive, preventive, corrective and general services of the institute's plants in line with the manufacturer's recommendation.
- Rectification of all electrical faults in the Institute's laboratories including the equipment.
- Monitoring and supervision of the Institute's priority feeder contractor in the maintenance of the High Tension (H.T) line, High tension circuit breakers, transformers, and the ring main unit
- Maintenance and servicing of all the Generators for continuous and optimal performance.
- Ensuring steady power supply to all offices, Laboratories and Residence.
- Reducing response time to fault rectification.
- Ensuring electrical load balancing in each phase etc.
- Constant monitoring of the Low Tension

lines to effect repairs.

- Replacement of all nonfunctional electric bulbs in the lab complex.
- Constant maintenance of the security lightings.

Transport Unit

- All Institute's vehicles were serviced as at when due throughout 2018
- Some vehicles with expired tyres had their tyres changed.
- All mobility Logistics were attended to, throughout the year.
- Purchase of new official vehicle for the Director General's use.

Environmental Unit

- All waste generated in the institutes be it solid, domestic, gardener or medical wastes were evacuated.
- All the overgrown plants /grasses in NIMR compound were trimmed.
- The drainage networks in NIMR were taken care of.
- Cleaning of in-house existing facilities and public toilets in the Institute.
- All over grown trees /plants under the high tension were trimmed.
- We ensured the environments were kept clean and conducive for everyone.

Refrigeration & Air Conditioning Unit.

- Routine services of all the air conditioners in the institute.
- Repairs of all the faulty air conditioners.
- Installations of any newly purchased

air conditioners.

- Repair of any faulty fridges.
- Repair of any faulty freezers
- Repair of all faulty ultra-low freezers.
- Attend to all work orders issued to the unit.

Biomedical Engineering Unit.

- Preventive and corrective maintenance in research and diagnostic laboratory equipment.
- Inspection and installation of newly procured laboratory equipment.
- Calibration of laboratory equipment.
- Participation in Ad hoc activities assigned by Management.
- Certification and verification of laboratory equipment.
- Training of IT students.
- Incineration of laboratory wastes and contaminated devices.
- Servicing research and diagnostic Laboratory equipment.

Number of conferences / workshops/ training:

Three (3)

Industrial training programs:

Three (3)

Achievements

Capital Projects:

- Internal and external renovation of the institute main Laboratory Complex.
- Resurfacing/Asphalting of the institute internal drive Roads/parking lots.
- Reconstruction of House 4 to

Researchers' suite commenced.

Intervention Funds:

- Upgrading of existing Animal colony to vertical development.

Annual Maintenance Service Contracts:

The Service Contracts through signed agreements existing between the Institute and professional private participators (Vendors) are as follow:

- Cleaning Services – RANSTOJAN Nig. Limited
- Biomedical Wastes Incinerating – EMIS Engineering Limited
- Priority Feeder Line/Equipment – DAT Investment
- Fumigation of NIMR premises - Hamtec Abraham Ventures.

Routine Maintenance Services- The routine maintenance services undertaken cut across the entire Civil, Electrical/Electronics, Biomedical, Transport, Environmental and Refrigeration/Air-conditioning Divisions making up the Department.

Work Plans.

- Hands- on- Training for all the craft men and improvement training for senior staff of the department.

- Restoration and improvement of all infrastructural facility that will enhance enabling environment for basic, applied and operational research studies going on in the Institute.
- Tidying the environment for better outlooks.
- Carting away all wastes generated by the Institute both solid, domestic and medical wastes (twice in a week).
- Clearing and trimming all the overgrown flowers, plants / grasses in the NIMR environment.
- Cleaning all the institute drainage networks.
- Routine services and repair of faulty air conditioners in all departments of the institute
- Repairs of any faulty fridges, freezers and ultra-low freezers.
- Attending to all work orders issued to the unit.
- Routine servicing of all the Institute generator and transformers.
- Maintenance of the Institute priority feeders, ring main unit, and 11kv Breaker.

CORPORATE MARKETING & COMMUNICATION UNIT

The Corporate Marketing and Communication Unit of the Institute was until recently called NIMR Consult. The change was necessitated by the new vision of the Institute's Management under the able leadership of Prof. Babatunde Lawal Salako and the role the unit is expected to perform going forward. The Management envisaged that the Unit should be more engaged in the Marketing of products developed as a result of Research and Innovations as well as patents. This is with a view to improve the Institute's visibility both locally and internationally as outlined in its

Mandate. The numbers of staff in the unit are three (3).

Services

Rentage of Conference Facilities:

- 300 capacity Auditorium
- 120 capacity conference room
- 45 capacity conference room
- 15 and 10 capacity syndicate rooms

Laboratory Services

The Institute's Laboratories render services to clients and various Health Management Organisations such as Clinix, Asa Mansard,

Hygeia, Friesland Wamco etc.

Research Innovation and Product Development (RIND)

The Corporate Marketing and Communication Unit is working closely with RIND in the marketing of products to be developed.

Parking Lots.

The open space within the Biomedical Training and Cancer Research Centre serves as parking lots for a fee.

Way Forward

- Link up the Biomedical Training and Cancer Research Centre to the Auditorium power back generator.

- Upgrade/Rehabilitate facilities in the Auditorium and Cancer Research Centre for improved service delivery
- Maintain a harmonious and productive working relationship with the Research Innovation and Product Development Unit (RIND) with a view to actualize the desired objective of Management.
- To improve on the partnership with Health Management Organisations with a view to enhance patronage of the Institute's Laboratories.

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2018 ANNUAL REPORT

Workshop on Strengthening National Health Research Capacity in Nigeria and the Launching of NIMR Research Foundation



2018 ANNUAL REPORT

National Workshop on Health Research and Grantmanship and Mentorship held at Western Hotel, Ikeja, Lagos.



2018 ANNUAL REPORT



**Group Photograph during the WANATEM 2 Laboratory QA Training.
4th -5th April 2019 at the Centre for Tuberculosis Research Division, Microbiology Department**



**In-House Logistics Management Training,
Microbiology Department**



**Good Clinical Practice for Microbiology Staff with a Facilitator from
FOUNDATION FOR INNOVATIVE NEW DIAGNOSTICS (FIND)**

2018 ANNUAL REPORT



NIMR & FMC Signed MOU on Research Collaboration



Staff retreat held from 17th - 18th December, 2018 at the Funplex Resort, CMD Road, Shanginsha, Ketu, Lagos

COLLABORATION & PARTNERSHIP (NATIONAL & INTERNATIONAL)



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