



**ASSOCIATION OF MEDICAL  
LABORATORY SCIENTISTS OF NIGERIA**

**HEARTLAND 2024**



**60**

## **Annual Scientific Conference / General Meeting & Diamond Jubilee Anniversary**

**THEME:**

**Strengthening Local Collaborations in Improving  
Health Security Governance in Nigeria:  
Lessons from Global Partnerships.**

**SUB-THEME:**

**Strengthening National Health Security  
through Sustainable Financing**

**SUB-THEME:**

**Optimizing Media and information technology  
in Strengthening National health security**



**Tues. 12th - Sat. 16th Nov., 2024**



**10am Prompt**



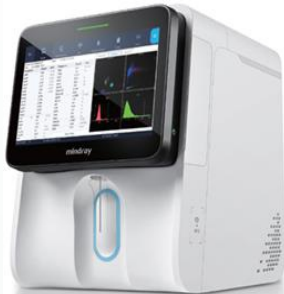
**Landmark Event Center**

**Plot H / 1, Nekede Pocket Layout, Beside Protea Hotel, Owerri, Imo State.**



**Foxmed**  
 Consults Ltd. **RC Number: 1679525**

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**Tel:** 07039577057, 08120134242.  
**Branch Office:** Suite 42, Independence Mall, Off Okpanam Road, Asaba Delta State.  
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## NATIONAL ANTHEM

Nigeria we hail thee,  
Our own dear native land,  
Though tribe and tongue may differ,  
In brotherhood, we stand,  
Nigerians all, and proud to serve  
Our sovereign Motherland.  
Our flag shall be a symbol  
That truth and justice reign,  
In peace or battle honour'd,  
And this we count as gain,  
To hand on to our children  
A banner without stain.  
O God of all creation,  
Grant this our one request,  
Help us to build a nation  
Where no man is oppressed,  
And so with peace and plenty  
Nigeria may be blessed.

## NATIONAL PLEDGE

I pledge to Nigeria my Country  
To be faithful, loyal and honest  
To serve Nigeria with all my strength  
To defend her unity  
And uphold her honour and glory  
So help me God.





## AMLSN ANTHEM

Across the veld of human tutelage  
Toddlers in step by step ascent  
Toiling in a haunted terrain  
We came through rain and fire

We stood our ground, and the perch  
Waiting till the Lord of sciences  
To our strength granted his favour  
Making us a tool in his hand

Great heirs of a mystery we are  
Anointed to unveil her secrets  
So holy and sublime our ways be  
That lettered verdicts yield their healing

You gave us new life O God  
Through perils of uterine live  
When the long night you subdued  
Proclaiming of our freedom

Masters no longer toddlers  
Med. Lab. Scientists across the land  
Are tributaries of talents  
High tide of Med. Lab. Science





## VISION

Enhancing quality healthcare  
through effective Medical laboratory  
services in Nigeria.

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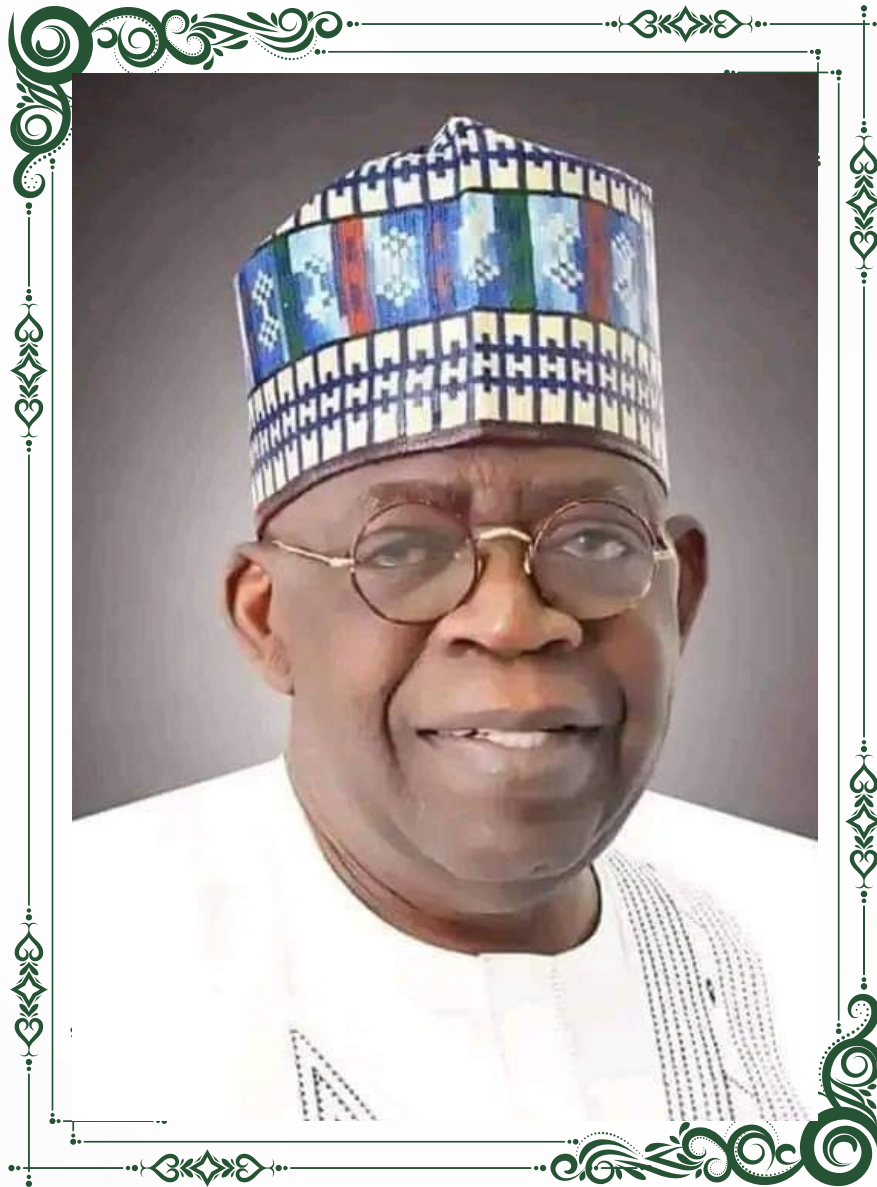


## MISSION

To cater for the welfare of members and  
enable them have a fulfilled career towards  
enhancing quality healthcare delivery system  
in Nigeria through effective and efficient  
Medical Laboratory Science practice

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**HIS EXCELLENCY**

**BOLA AHMED TINUBU** GCFR

PRESIDENT, COMMANDER-IN-CHIEF OF THE  
ARMED FORCES, FEDERAL REPUBLIC OF NIGERIA

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**HIS EXCELLENCY**

**KASHIM SHETTIMA** GCON

VICE-PRESIDENT, FEDERAL REPUBLIC OF NIGERIA

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**HIS EXCELLENCY**

**SEN. HOPE UZODIMMA**

EXECUTIVE GOVERNOR, IMO STATE.

**KEYNOTE SPEAKER**



60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**PROF.**

**MUHAMMAD ALI PATE, CON**

HON. COORDINATING MINISTER OF HEALTH AND SOCIAL WELFARE.

**LEAD SPEAKER**

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**HON. MOHAMMED IDRIS MALAGI**  
HON. MINISTER OF INFORMATION AND NATIONAL ORIENTATION

**GUEST SPEAKER**

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**PROF. CHUKWUEMEKA UBAKA**  
HON COMMISSIONER FOR HEALTH, IMO STATE GOVERNMENT.

**GUEST SPEAKER**



Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**DR. CASMIR IFEANYI**

15TH AMLSN NATIONAL PRESIDENT

**CHIEF HOST**

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**COMR. EBOH JOSEPH O. (JP)**

AMLSN BRANCH CHAIRMAN

**HOST**

60<sup>th</sup>

Annual Scientific Conference /  
General Meeting & Diamond  
Jubilee Anniversary



**PROF. JAMES GARBA DAMEN**

IMMEDIATE PAST PRESIDENT

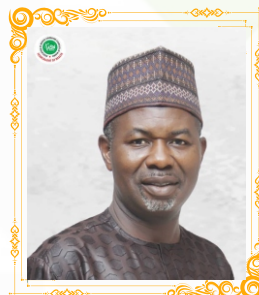
# NATIONAL EXECUTIVE OFFICER



**Dr. Casmir Ifeanyi**  
15th National President AMLSN,  
(Chief Host)



**Prince Ashi Robert**  
1st Vice President



**Com. Abdulsalam Yakubu**  
National Secretary



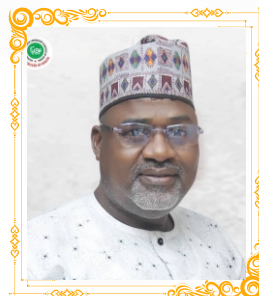
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2nd Vice President (SW)



**Eld. Otareh O. Otareh**  
2nd Vice President (SS)



**Mukhtar Yeldu**  
2nd Vice President (NY)



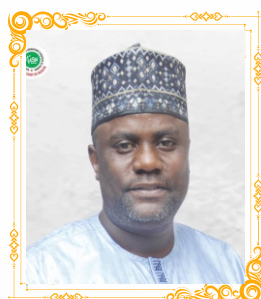
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**Idongesit E. Essien**  
National Treasurer



**Prince Adedire Adeyinka**  
National Publicity Secretary



**Dr. Kabiru Adamu**  
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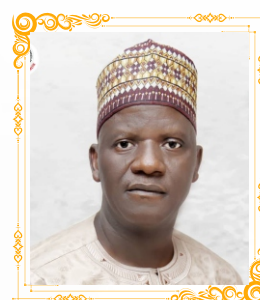
**Kyari Caleb Luka**  
National Auditor



**Dr. Isomah C. Jeff**  
National Assistant Secretary



**Lawal Taofeeq Babsalam**  
National Welfare Officer



**Prof. James Garba D.**  
Immediate Past President

DAY	ACTIVITY	TIME	VENUE
<b>PRE-CONFERENCE ACTIVITIES</b>			
Tuesday, November 12, 2024	State AMLSN Walk for Awareness Creation	10:00AM	State Capital
Wednesday, November 13, 2024	ARRIVALS - Check-ins, Confirmation of Registration	All day	Landmark Event Center

## OPENING CEREMONY, KEYNOTE ADDRESS AND DIAMOND JUBILEE CELEBRATION

Thursday, November 14, 2024	Oral Poster Session	9:00 AM - 11:00 AM	Main Bowl
	Short Break	11:00 AM - 12 NOON	Event Center
	Opening Ceremony & Keynote Address Presentation	12:00 PM - 2:30 PM	Main Bowl
	Group Photo and Tour of Exhibition	2:30PM - 3:30 PM	Event Center
	Diamond Jubilee Events	3:30PM - 4:30 PM	Main Bowl
	Wrap	4:30PM - 5:00 PM	Main Bowl

## OPENING CEREMONY, KEYNOTE ADDRESS AND DIAMOND JUBILEE CELEBRATION

Thursday, November 14, 2024	Oral Poster Sessions & Tour Of Exhibition Stands	9:00 AM - 11:00 AM	
	Break	11:00 AM - 12 NOON	Event Center
	Poster & Panel Sessions	12:00 PM - 1:30 PM	Main Bowl
	Sponsored Scientific Sessions	1:30PM - 2:30 PM	Event Center
	AGM	3:00PM - 4:00 PM	
	Community Town Hall	4:20PM - 5:00 PM	
	Wrap	5:00PM	

## SATURDAY, NOVEMBER 16, 2024

## DEPARTURES



# BIO OF IBIANG LIVINUS



Ibiang is an organizational development expert and a senior public health advisor with 22 years of progressive practical experience in the development and social sector. He has requisite knowledge and skills in program management, health systems, leadership, and stakeholder management.

Of the 22 years of service, Ibiang has served in very senior leadership positions for 17 years, providing programmatic and technical leadership for public health programs. He has co-managed and administered the following - an \$84,700,222 million comprehensive HIV/AIDS Care and Treatment, health systems, and maternal and child health services project, the Prevention, Organizational Systems AIDS Care and Treatment Project (PROACT) valued at \$85 million dollars, the Technical response to AIDS-Affected populations Project (TRAP) valued at \$5.8 million

dollars, as the President of the Nigerian Biological Safety Association and Executive Director, he secured a States Department \$547,119 2-years grant through Sandia National Laboratories to implement Biosafety and biosecurity programs in Nigeria.

Ibiang is a Master trainer, leadership and organizational development expert and holds Fellowship of three major organizations - Nigerian Biosafety Association, the Association of Medical Laboratory Scientists of Nigeria, and the International Association of Mentors & Quality Improvement Experts; he also holds the International Biosafety certification, Member of the Royal Society of Public Health, United Kingdom, and an Associate of the Medical Laboratory Science Council of Nigeria amongst other certifications. He holds a Bachelor of Medical Laboratory Science degree, Master of Business Administration, Master of Public Health and is currently a doctoral candidate in International Public Health at the EUCLID University.

Ibiang is currently an Infection Prevention & Control Consultant to the Nigerian Centers for Disease Control and Prevention, Federal Ministry of Health, Abuja.

# Welcome Address

## by the Chair of the National Organizing Committee

His Excellency

The Executive Governor of Imo State & Chair of the Progressive Governors Forum

Distinguished Colleagues and Guests

Members of the 4th Estate of the Realm

Good day everyone!

Honorable guests, distinguished speakers, esteemed colleagues, and dear participants, On behalf of the Organizing Committee for the **HEARTLAND 2024 conference**, it is my great honor and pleasure to welcome you all to the **60TH ANNUAL SCIENTIFIC CONFERENCE/GENERAL MEETING & DIAMOND JUBILEE CELEBRATION**, our annual gathering for medical laboratory scientists in Nigeria and the diaspora. This conference has become an important tradition for advancing the cause of our profession, fostering collaboration, and inspiring excellence in medical laboratory sciences and practice.

This year, we are thrilled to bring together, as always, an exceptional lineup of researchers, clinicians, and innovators who are here to share their latest findings, ideas, and insights. We are especially grateful to our keynote speakers and session chairs for their time, expertise, and willingness to share their knowledge with us. Their contributions will certainly enhance our understanding of current challenges and future directions in medical laboratory sciences.

The theme of this year's conference, "**STRENGTHENING LOCAL COLLABORATIONS IN IMPROVING HEALTH SECURITY GOVERNANCE IN NIGERIA: LESSONS FROM GLOBAL PARTNERSHIPS**" is particularly significant and carefully selected. As we all know, the role of medical laboratory scientists is increasingly vital in diagnosing and monitoring diseases, discovering new therapies, and ensuring the highest standards in patient care. In light of ongoing advancements and challenges, this gathering provides us with an excellent opportunity to share our



experiences, discuss groundbreaking research, and foster new partnerships.

To our valued sponsors and partners, thank you for your generous support. Your contributions are invaluable to the success of this conference and reflect your commitment to advancing the field.

To all participants, I encourage you to take full advantage of this gathering: attend the sessions, engage in discussions, and connect with your colleagues from around the Country and beyond. I believe that by working together, we can continue to make meaningful contributions to laboratory science and, ultimately, to the health of our communities.

Once again, welcome to the **HEARTLAND 2024**. I look forward to an enriching and inspiring experience for us all. Thank you, and let's make this a memorable and impactful event!

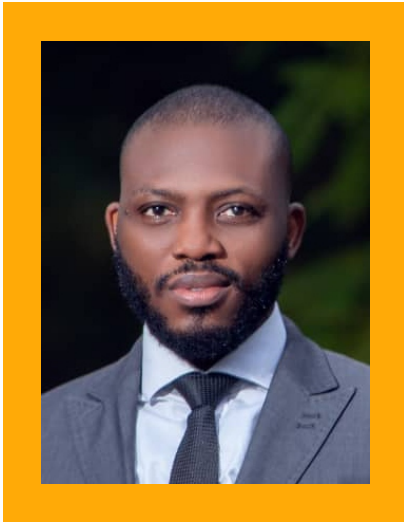
Warm regards,

A handwritten signature in black ink, appearing to read 'Ibiang Livinus'.

**Ibiang Livinus**

Chair, National Organizing Committee

## Chairman, Local Organizing Committee Speech for The 2024 AMLSN Heartland National Scientific Conference / AGM and Diamond Jubilee Celebration



It's an honor to welcome esteemed colleagues, guests, and well-wishers to the 60th annual gathering of the Association of Medical Laboratory Scientists of Nigeria, a milestone celebration of excellence in medical laboratory science. As Chairman of the Local Organizing Committee, it is with excitement that my team and I are organizing the 2024 National Scientific Conference and Diamond Jubilee Celebration here in the Eastern Heartland, renowned for its natural and human resources.

This 60th annual gathering marks six decades of excellence in medical laboratory science in Nigeria. We have come a long way, and it is fitting that, as we chart a future course for Nigeria's medical and health industry, we also celebrate this milestone with a Diamond Jubilee. The Diamond Jubilee celebration is a testament to our growth and contributions. This year's theme, "Strengthening Local Collaborations in Improving Health Security Governance in Nigeria: Lessons from Global Partnerships," is timely and relevant, offering a unique opportunity for interdisciplinary collaborations. I commend our National President, Dr. Ifeanyi Cajetan Casmir, and the National Organizing Committee for this insightful topic. I am delighted to have an impressive lineup of speakers for this event.

We're grateful for the participation of His Excellency Senator Hope Uzodinma, Professor Ali Pate, and Hon. Mohammed Idris Malagi. To our participants, I encourage you to actively engage in the discussions, network with colleagues, and take advantage of the opportunities presented during this conference.

Owerri, the educational and industrial capital of Imo State, is ready to host you. Enjoy the city's hospitality, explore its attractions, and make lasting connections. Thank you for joining us.

**MLS. Nche Bikwe,**  
LOC Chairman and Secretary, AMLSN Imo Branch

# Text Of The Speech Delivered By Dr. Casmir Ifeanyi

The 15th National President Of The Association Of Medical Laboratory Scientists Of Nigeria (AMLSN) **At The 60th Annual Scientific Conference (asc)/annual General Meeting (agm) And Diamond Jubilee Celebrations Held** 14th November, 2024 **At The** Landmark Event Centre, Owerri, Imo State, Nigeria.

## PROTOCOL

*Distinguished Guests, Esteemed Colleagues, Ladies and Gentlemen,*

It is a profound honour and privilege for me to stand before you today on the occasion of this historic 60th Annual Scientific Conference and our Diamond Jubilee celebrations. Today, we have gathered not only to reflect on our past, but also to envision the future of our profession and the vital role we play in the healthcare landscape, not only in Nigeria, but globally.

Sixty years ago, our founders embarked on a journey based on the principles of excellence, integrity and service, aimed at raising the standards of the medical laboratory science profession in Nigeria. As we commemorate this Diamond Jubilee, let us take a moment to recognize and appreciate their sacrifices, vision and hard work that laid the foundations for the achievements we celebrate today.

## ACHIEVEMENTS AND PROGRESS

Over the past six decades, the Association has made tremendous progress. We have advanced medical laboratory practices, contributed to public health initiatives, and played a critical role in the prevention and management of disease. Our commitment to quality assurance and professional development has elevated the status of medical laboratory science to an indispensable pillar of health care delivery.





Today, our medical laboratories are at the forefront of diagnostics, providing critical data that inform clinical decisions and patient management. We have witnessed the evolution of technology, from traditional methods to the latest techniques in molecular biology and automation. This journey has not been without its challenges, but our persistence and dedication have carried us forward.

### **CHALLENGES AHEAD**

While we celebrate our successes, we must also face the challenges ahead. The healthcare landscape is changing rapidly, driven by factors such as globalization, technological advances and the growing burden of disease. The COVID-19 pandemic has highlighted the need for robust medical laboratory systems and the importance of the role we play in preparing for and responding to outbreaks.

We must commit to continuing education to keep pace with these changes. It is imperative to foster the integration of medical laboratory scientists into multidisciplinary health care teams, ensuring that our expertise is used in decision-making processes.

### **OUR ENVISIONED THE FUTURE**

As we look to the future, we aspire for a profession that is not only recognized for its contribution, but also able to play a leading role in the fields of research, innovation and policy formulation. We envision a Nigeria where every medical laboratory is resourced to provide high quality services to all citizens, regardless of their socio-economic status.

To achieve this vision, we must strengthen our collaboration with stakeholders, including government agencies, health care providers and educational institutions. We must build strategic partnerships that strengthen our capabilities and amplify our voices on issues that affect our profession and the health of our population.

### **OUR CLARION CALL TO ACTION**

I urge all AMLSN members to embrace our collective responsibility to advance our profession. Whether you are a seasoned professional or a beginner in the field, your contributions are invaluable. We foster a culture of mentorship,



innovation and excellence that will inspire future generations of medical laboratory scientists.

In conclusion, I would like to express my sincere gratitude for your commitment to the Association and the profession. Together, we continue to uphold the ideals of integrity, professionalism and service that our founders envisioned. I hope that this 60th Annual Scientific Conference will serve as a platform for collaboration, learning and forging new paths for our great Association.

As we celebrate our achievements let us remain true to our mission of improving healthcare in Nigeria.

**Together, we will achieve greatness!**

**Long live the spirit of service and excellence!**

**Long live the Association of Medical Laboratory Scientists of Nigeria!!**

**Long live the Federal Republic of Nigeria!!!**

Thank you.

**Dr. Casmir Ifeanyi, Ph.D., FWAPCMLS, MNASBIOH.**

The 15th National President,

Association of Medical Laboratory Scientists of Nigeria (AMLSN).

## AWARDEES



**His Excellency,  
Senator Hope Uzodinma**

First National Patron, AMLSN



**His Excellency Rt.  
Hon. Mohammed Umaru Bago.**

Diamond Ambassador of  
Medical Laboratory Science In Nigeria



**His Excellency,  
Mal. Dikko Umaru Radda.**

National Patron Association Of Medical  
Laboratory Scientists Of Nigeria (amlsn)



**His Excellency, Sen. Dr.  
Aliyu Magatakada Wamakko**

Diamond Award for Excellence in  
Philanthropic Transformation  
and Leadership



**Mrs. Didi Esther  
Walson-Jack, OON, mni.**

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professional leadership in public service.



**Rt. Hon. Yusuf Adamu  
Gagdi, OON.**

Diamond Award for Excellence in  
and Representative leadership



**Hon. Chidi Mark Obeta.**

Diamond Award for Excellence in People-  
Centered Transformational leadership



**Chief (Dr.) Charles  
Okechukwu Anyanwu.**

Diamond Award for Excellence in Public  
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and Logistic Service.



**Kingsley Onyegbula**

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Entrepreneur Leadership.





## List of LOC Members

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3. MLS. (Mrs) Grace Eronini - Secretary
4. MLS. Dr. Ita Ahirakwem - Treasurer
5. MLS. Caleb Ezeh - Publicity Secretary
6. MLS. Chiedoizie Ibekwe - Financial Secretary
7. MLS. Martha Osuji - Member
8. MLS. Pastor Innocent Jaja Njemanze - Member
9. MLS. Hon. Victor Mere - Member.
10. Professor MLS. Obiajuru - Member
11. MLS. Mrs. Ude Nwankwo - Member

## Sub Committees

### Accomodations / Procurement

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2. MLS. Confidence Anyanwu
3. MLS. Samuel Onyekwe

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MLS. Margaret Nwaehie - Secretary

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2. MLS. Mrs. Chinwe A. C.
3. MLS. Emmanuel Nweke
4. MLS. Jude Ugwu
5. MLS. Dr. Ihionu



## Sub Committees

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2. MLS. Mbamalu Activity Onyinye
3. MLS. Henry Ibeagwu
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- 2.) MLS. Sam Nwokeji
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#### Members:

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- 2.) MLS. Bright Amadi
- 3.) MLS. Emmanuel Dijeh
- 4.) Rev. Sis. Ekwem Augusta
- 5.) MLS. Duru Chinwe

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MLS. Dr. Mrs Amaechi Nwannah - Secretary

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- 2.) Professor Tobias I.N. Ezejiolor
- 3.) MLS. Dr. Terry Omorodion
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MLS. Chika Nnawuihe - Secretary

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- 3.) MLS. Rev. Uche Oguoma
- 4.) MLS. Dean Bahago
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- 3.) MLS. Ibezim Udochukwu Anurika
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- 3) MLS Duru Collins
- 4) MLS. Amuchie Francis Chinecherem
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### Members:

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AMLSN OWR - 001 - 2024

### EXPLORING THE DUAL STAINING CAPABILITY OF *HIBISCUS SABDARIFFA* ON SOME SELECTED HISTOPATHOLOGICAL TISSUES

Rilwanu I. Tsamiya\*, A. Bala, I. Mohammed, A.O. Muhammed, A. Umar and U. Abubakar  
Department of Histopathology, School of Medical Laboratory Sciences, College of Health Sciences,  
UDUS

Rilwanu I. Tsamiya, Email: [tsamiyarilly@gmail.com](mailto:tsamiyarilly@gmail.com), + 234 8036232775

**Background:** Stains are used to colour nuclear and cytoplasmic components of cells and tissues, aiding in visualization under the microscope. Synthetic dyes are very expensive, and some of them have carcinogenic effects, hence the need to explore the potential of natural dyes. The study aimed to assess the dual staining capability of *Hibiscus sabdariffa* on some selected histopathological tissues.

**Method:** Selected formalin-fixed paraffin-embedded (FFPE) tissues from the human colon, prostate, breast, duodenum, nasal cavity, anorectal, and cervix-uterine were used as samples. The samples were cut at 5 µm and then stained with *Hibiscus sabdariffa* ferric chloride solution as a nuclear stain. The tissues were counter-stained with 10% alcoholic extract of *Hibiscus sabdariffa*. Another set of sections from the tissues was stained with the haematoxylin and eosin staining (H&E) method which served as the control. Photomicrographs of the interested areas of the stained sections were taken during the examination of the slides under the microscope.

**Results:** The tissue sections stained with *Hibiscus sabdariffa* solutions showed both nuclear and cytoplasmic staining abilities. The nuclei were stained dark brown by the extract solution when compared with the H&E-stained slides. However, there is a need for more optimisation on the extract solution as the nuclear staining intensity of H&E was superior. The cytoplasm of the tissues was stained by the 10% alcoholic extract of the *Hibiscus sabdariffa*. Tissues that had better staining with the extract solutions include the breast, colon, uterine, and prostate.

**Conclusion:** *Hibiscus sabdariffa* extract solutions have the potential to serve as either nuclear or cytoplasmic stains on histological tissues. More optimisation of the extract solutions needs to be done to have superior staining compared to the routine H&E staining method.

**Recommendations:** Most histological stains currently in use are synthetic and they are not readily available in our society, thereby making them expensive with some of them having health hazards associated with usage. It is recommended that staining ability of stains from natural sources available within our society be further explored as they appear to be cheaper, eco-friendly, and readily available to serve as possible alternatives for synthetic dyes.

**Keywords:** *Hibiscus sabdariffa*, staining ability, tissues, nuclear, cytoplasmic.



AMLSN OWR - 002 - 2024

**HISTOPATHOLOGICAL PATTERN OF NASAL TUMOURS IN USMANU DANFODIYO UNIVERSITY TEACHING HOSPITAL SOKOTO, NORTH-WESTERN NIGERIA**

Rilwanu I. Tsamiya\*<sup>1</sup>, H. Lawal<sup>1</sup>, K. Abdullahi<sup>2</sup>, I. Mohammed<sup>1</sup>, A.T. Muhammad<sup>1</sup> and M.O. Mohammed<sup>1</sup>

<sup>1</sup>Department of Histopathology, School of Medical Laboratory Sciences, College of Health Sciences, UDUS.

<sup>2</sup>Department of Morbid Anatomy and Forensic Medicine, College of Health Sciences, UDUS

Rilwanu I. Tsamiya, Email: [tsamiyarilly@gmail.com](mailto:tsamiyarilly@gmail.com), + 234 8036232775

**Background:** Nasal tumour is a rare type of tumour accounting for 3% of all head and neck malignancies and <1% of all malignancies worldwide. The tumour represents any abnormal growth in the nose that could be benign or malignant. We aimed to determine the histopathological pattern of the nasal tumours in Usmanu Danfodiyo University Teaching Hospital (UDUTH), Sokoto.

**Method:** This is a retrospective study of nasal tumours seen in the Department of Histopathology, Usmanu Danfodiyo University Teaching Hospital Sokoto from 1<sup>st</sup> January, 2003 to 31<sup>st</sup> December, 2012. Demographic and clinicopathological data of the patients were collected from departmental records and the haematoxylin and eosin-stained slides were reviewed to confirm their diagnosis.

**Results:** A total of 10,422 tissue samples were received in the Department of Histopathology for diagnosis within the study period, out of which 64 (0.61%) were nasal tumours. Males accounted for 35 samples (54.7%) while females had 29 samples (45.3%) with a male-to-female ratio of 1.2:1. The lowest age was 2 years and the oldest age was 78 years. The highest cases of nasal tumours were seen at the age range of 41-50. Benign tumours were more frequent with 65.6% while malignant tumours had 29.7% occurrence. Nasal polyp with 19 cases was the most common benign lesion and squamous cell carcinoma with 5 cases was the most common malignant lesion.

**Conclusion:** Tumours of the nasal cavity are not common in our society, which accounted for 0.61%. Benign tumours outnumbered the malignant type with nasal polyp and squamous cell carcinoma as the most frequent histological types, respectively.

**Recommendations:** Although nasal tumours are rare, our study indicated their existence in our society. It is therefore advisable that any form of abnormal growth observed within the nasal cavity should be reported immediately to the hospital. This will help for early detection and prompt treatment to prevent cancer from reaching the metastatic stage, thereby affecting other vital organs of the body coupled with the high cost of treatment at this stage and associated poor prognosis.

**Keywords:** Nasal tumours, benign, malignant, histopathology, UDUTH.



AMLSN OWR - 003 - 2024

## HIGH LEVEL OF RIFAMPIN-RESISTANCE TUBERCULOSIS DETECTED IN A REFERRAL CENTRE IN IBADAN: IMPLICATION FOR EFFECTIVE TUBERCULOSIS MANAGEMENT

Pelumi Daniel Adewole<sup>1&2\*</sup>, Olumuyiwa Samuel Alabi<sup>1</sup> and Nuhu Abdulrazak<sup>3</sup>

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<sup>2</sup>Medical Laboratory Science Programme, College of Health Sciences, Bowen University, Iwo, Osun State

<sup>3</sup>Department of Medical Laboratory, Faculty of Allied Health, Kwara State University, Malete, Kwara State, Nigeria

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**Introduction:** Drug-resistant tuberculosis (DR-TB) poses a significant threat to TB control, with limited surveillance in Nigeria due to inadequate laboratory capacity. This study assessed the prevalence of DR-TB among patients in a referral centre in Ibadan, addressing a critical gap in regional data for effective TB management.

**Method:** This cross-sectional study, approved by the Oyo State Ministry of Health, involved 163 purposively sampled participants (December 2019 to October 2020). Sputum samples were processed using GeneXpert®, microscopy, and cultured on Lowenstein-Jensen medium. Antibiotic susceptibility testing was conducted using a modified Lowenstein-Jensen agar dilution method, applying critical concentrations of antituberculosis drugs. Data was analysed descriptively.

**Results:** Among the 163 patients, 44 exhibited drug resistance. The proportions of isolates with no growth, mono-resistance, resistance to two drugs, and resistance to more than two drugs were 13.6%, 25.0%, 31.8%, and 29.6%, respectively. Rifampicin showed the highest resistance rate, with 31 patients (81.6%) fully resistant. Dual resistance was most common for rifampicin and isoniazid (50%), followed by rifampicin and fluoroquinolone (28.6%). Triple-drug resistance was observed primarily in rifampicin-isoniazid-kanamycin and rifampicin-fluoroquinolone-kanamycin, each at 15.4%. Two strains showed resistance to four drugs: rifampicin-fluoroquinolone-amikacin and rifampicin-fluoroquinolone-kanamycin-amikacin, each at 7.6%.

**Conclusion:** The study identified rifampicin as the drug with the highest resistance among participants.

**Recommendation:** This study advocates for the use of rifampicin resistance as a surrogate marker for molecular detection of multidrug-resistant TB (MDR-TB) in resource-limited settings.

**Key Words:** Tuberculosis, Rifampicin-Resistance, Ibadan



AMLSN OWR - 004 - 2024

## EVALUATION OF BACTERIAL CONTAMINANTS OF DOOR HANDLES IN DIFFERENT DEPARTMENTS OF RIVERS STATE UNIVERSITY TEACHING HOSPITAL, PORT HARCOURT, RIVERS STATE

Wisdom Nyimanu Omah <sup>1</sup>, Rhoda Matthew Nwalozie <sup>1</sup>, Ollor Ollor Amba <sup>1</sup>, Lawson Stephenson Danagogo<sup>2</sup>.

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**Background:** Microorganisms are found everywhere and constitute a major part of every ecosystem. Fomites in constant contact with humans or natural habitats of pathogenic organisms constitute a major source of the spread of infectious diseases. Public places such as hospitals have a large influx of people who throng in with their microbial flora and other organisms they have picked elsewhere and deposit them on door handles and knobs while entering the facility and during exit. *Staphylococcus aureus* has been reported as the most common contaminant of fomites. This work focuses on bacterial contaminants of door handles in different departments of Rivers State University Teaching Hospital (RSUTH), Port Harcourt, Rivers State.

**Method:** Door handles were swabbed with a sterile swab stick moistened with sterile peptone water from different departments of RSUTH, Port Harcourt in Port Harcourt Local Government of Rivers State. The Study Area is between latitude 4°84'72" N and longitude 6° 79' 46" E. The samples were labeled accordingly and transported to the Medical Microbiology Laboratory of Rivers State University for analysis using the spread plate technique. Ethical approval was obtained from Rivers State University Teaching, Hospital Health Research Ethics Committee before the commencement of this study.

**Result:** Statistical Package for the Social Sciences (SPSS) version 23 was used for the analysis of data. The number of isolates were Medical Microbiology (3), Haematology (2), Anatomical Pathology (2), Chemical Pathology (2), PCR (3), Infectious Disease (3), Gene Expert (3), Pharmacy (2), Surgery (3), Accident and Emergency (3), Obstetrics and Gynaecology (2) and Radiology Department (2) respectively. *Staphylococcus aureus* (29%) was the most isolated and identified bacteria and the least was *Bacillus sp* (7%).

**Conclusion:** The presence of *Staphylococcus aureus*, *Pseudomonas sp.* *Klebsiella sp.* *Streptococcus sp.* *Bacillus spp.*, *Escherichia coli*, and *Klebsiella spp.* were found on the door handles in the hospital and are indications that there are public contact surfaces on door handles and may serve as a potential source of infections and threat to public health.

**Recommendation:** Personal hygiene and advocacy in the various departments of the hospital are recommended.

**Keywords:** Bacterial Contaminants, Door Handles, Departments, RSUTH

AMLSN OWR - 005 - 2024

### HISTOMORPHOLOGICAL STUDY OF CHANGES ASSOCIATED WITH *MORINGA OLEIFERA* LEAVE EXTRACTS ON LEAD-INDUCED LUNG LESION OF MICE

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<sup>1</sup>Department of Medical Laboratory Science, Faculty of Allied Health Sciences, College of Health Sciences, Bayero University, Kano.

<sup>2</sup>Histopathology Department, Aminu Kano Teaching Hospital, Kano.

<sup>3</sup>Department of Anatomy, Faculty of Basic Medical Sciences, Bayero University, Kano. <sup>4</sup>Department of Medical Laboratory Science, Faculty of Allied Health Sciences, Maryam Abacha American University, Kano.

<sup>5</sup>Department of Chemical Pathology, School of Medical Laboratory Science, College of Health Sciences, Usmanu Danfodiyo University, Sokoto

Zakariyya Abu Ubaidulah Abdulganiy, Email: azakariyya.mls@buk.edu.ng; +2348024693838

**Background:** *Moringa oleifera* leaves extracts are currently among the most common medicinal plants used to cure some diseases. Many studies have been conducted on the benefits of *Moringa oleifera* leaves extracts but only few studies focused on its anti-fibrotic effects on lung tissue. The aim and objective of the research was to study the histomorphological changes associated with *Moringa oleifera* leave extracts on lead-induced lung lesion of mice.

**Method:** Twenty adult mice were divided into four groups, three test groups (A, B and C) and a control group (D). The test groups were administered orally with 5mg/kg lead acetate and 10mg/kg *Moringa oleifera* leaves extract concurrently; 5mg/kg lead acetate only; 10mg/kg *Moringa oleifera* leaves extract only; while the control group did not receive any intervention. The intervention period lasted for three weeks. On day twenty-two of the research, the animals were sacrificed; lung tissues were harvested, processed for histological examination and stained using Hematoxylin and Eosin staining technique.

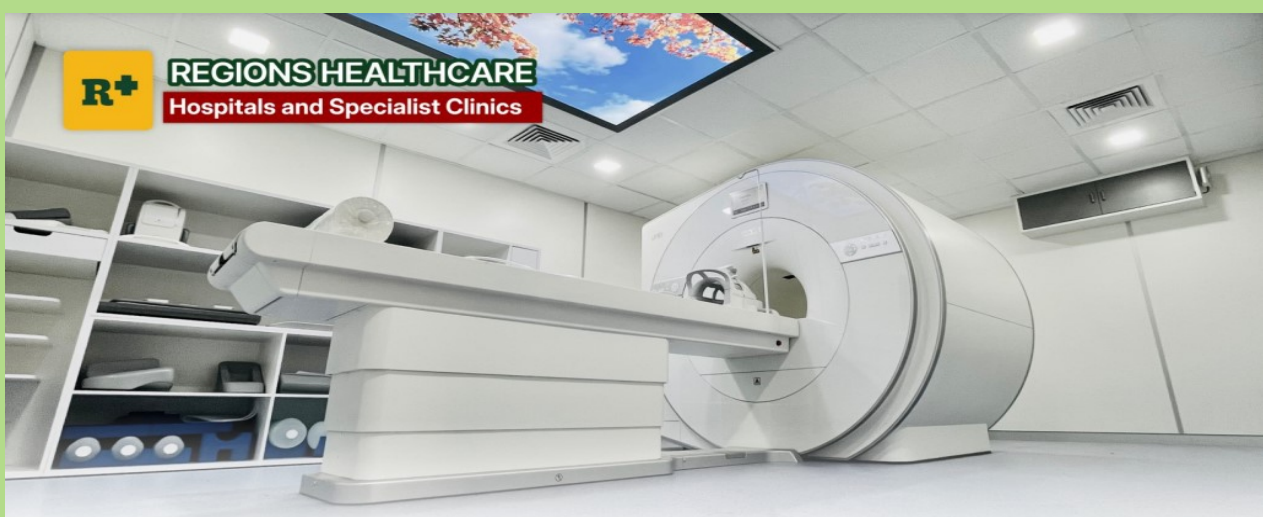
**Results:** Group A animals administered with lead acetate and *Moringa oleifera* leaves extract concurrently, showed that the deleterious effects of Lead were ameliorated, with an improve histological features of the lungs when compared with that of the Group B. An ill-defined alveoli, thinned alveoli wall, sacs emphysema and distortion of the parenchyma cells were observed in lung tissue sections of test Group B, administered with lead acetate only, thus inducing fibrosis in the lung tissue. An unremarkable histology, which supports no changes in the features: intact lung alveoli, lung parenchyma cells were observed in test Group C and this very much correlated to that of the control group.

**Conclusion:** *Moringa oleifera* administration reduced the severity of Lead's damaging effects to the lungs, and may likely exhibit anti-fibrotic as well as prophylactic effects by repairing damaged alveoli and in the latter case by preserving and/or regenerating the lung tubules.

**Recommendation:** Further study is recommended to establish these results and to explore its application in human models

**Key words:** Anti-fibrotic, Lead-induced, Lung, Lesion, *Moringa oleifera*





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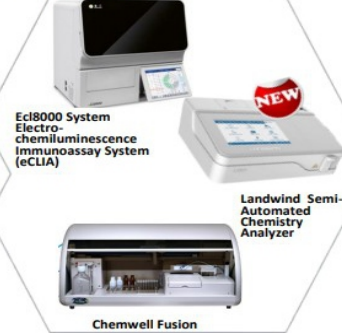


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# Hearty Felicitations



## The Association of Medical Laboratory Scientists of Nigeria (AMLSN), Lagos Branch.

warmly felicitates with the national body on the momentous occasion of its Diamond Jubilee celebration.

We commemorate 60 years of excellence, dedication, and tireless contributions to the advancement of medical laboratory science

**Signed:**

**Abioye Omoyemi Akanji**  
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*Felicitates*

her 15th National President Dr Casmire Ifaenyi, the NEOs and the entire AMLSN member on the occasion of her diamond jubilee. May AMLSN continue to grow from strength to strength. Amen

**- Kantiyok CMD Branch Chairman**



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#### “DIAMOND JUBILEE ANNIVERSARY MESSAGE”

To Our Esteemed National Body, AMLSN,

On behalf of the entire membership of AMLSN Delta State Branch,  
we extend our warmest congratulations to the Association of  
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on the momentous occasion of your Diamond Jubilee Anniversary  
“60 Years of Unwavering Commitment to Medical Laboratory Excellence.”



Courtesy, EXCO  
AMLSN DELTA STATE BRANCH



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**CONGRATULATORY MESSAGE TO DR  
CASMIR IFEANYI THE 15TH NATIONAL  
PRESIDENT OF AMLSN.**

We the members of Executive and progressive minded members of AMLSN Enugu State heartily felicitate with you and members of your Executive on the successful organization of our AGM and the Celebration of our Golden Jubilee as a professional body. Tagged Heartland 2024 holding in Imo State South East Nigeria. We salute your doggedness in championing the course of people oriented governance in spite of all detractors from the detractors in our profession.

Your astuteness is unequalled and your style of leadership is worthy of emulation. We are proud of you and are strongly behind you in your struggles for professional emancipation. Bravo! The leader of our time ride on the road is clear .  
Signed

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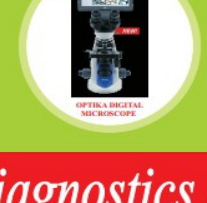
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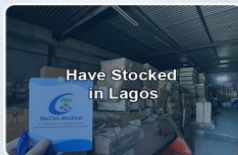
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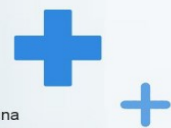
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## AMLSN PLATEAU STATE

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Celebrates a milestone born out of six decades of Professional Emancipation from colonial diploma to Associate Technology and now Scientific Status as we aim towards MLSD and FWAPMLC, an effort met with stiff resistance but we hurdled over mountainous barriers, we on the Plateau as a Branch keyed into this vision 40 years ago and have never looked back, we have set the bar high after Hosting the National Conference in 1978, 1998 and 2018.

We are glad to be part of the Beautiful story as the Custodians of Searchlight for Health, the Bedrock of Medicine, AMLSN was coined on July 14 1992, with CAC cert number 7446, a departure from the Association of Medical and veterinary laboratory technology of Nigeria in 1964, sixty years ago, we will turn out enmasse to celebrate AMLSN @60 at HEARTLAND 2024, this is indeed historic worthy of celebration Congratulations to all Sixty thousand Medical Laboratory Professionals in Nigeria.

**Signed:**

**Agwo Martin Dagen.**  
Chairman, AMLSN Plateau

**Pam Dalyop**  
Secretary, AMLSN Plateau



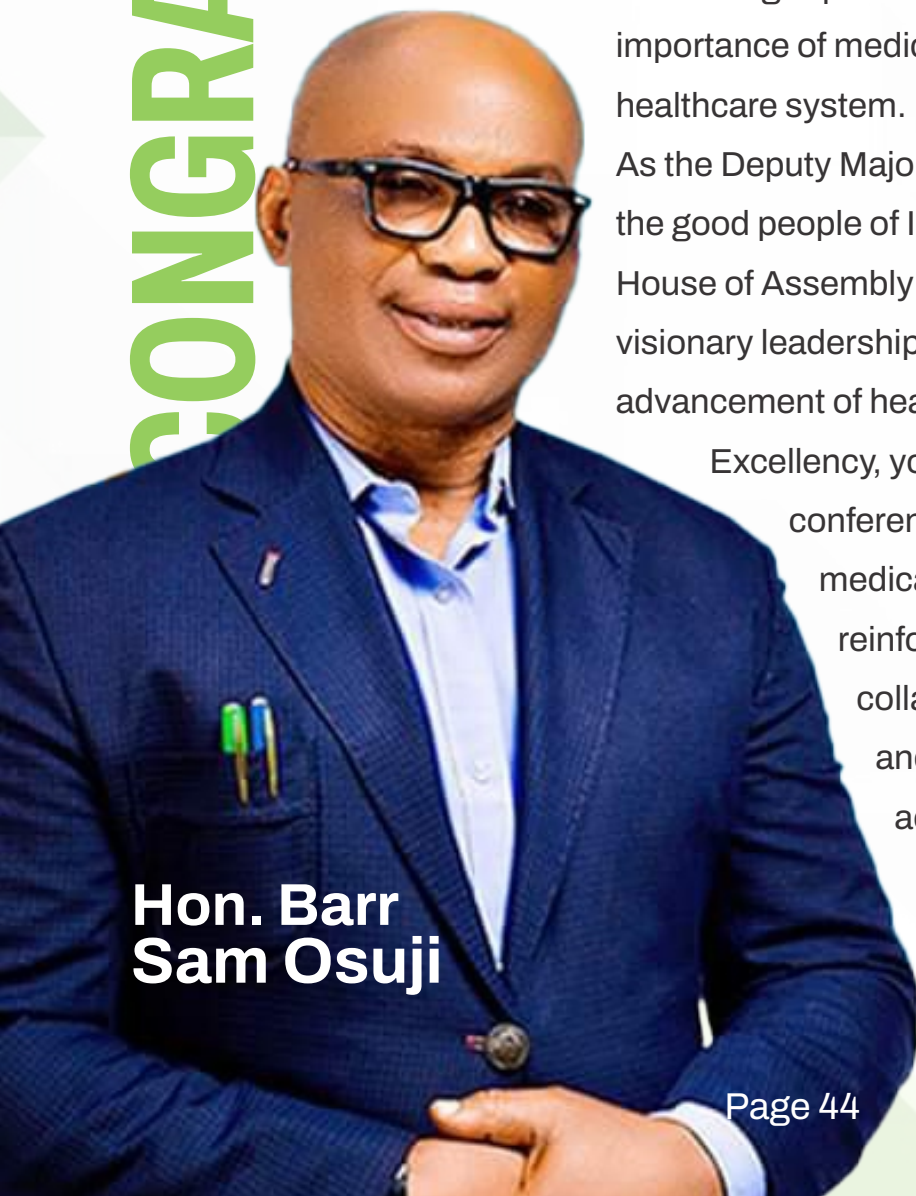
His Excellency, Distinguished Senator Hope Uzodinma, I am honored to extend my heartfelt felicitations to you on the outstanding keynote speech you delivered at the 60th Annual Scientific Conference and Diamond Jubilee celebration of the Association of Medical Laboratory Scientists of Nigeria.

Your thought-provoking address underscored the importance of medical laboratory science in our healthcare system.

As the Deputy Majority Leader and representative of the good people of Isiala Mbano in the Imo State House of Assembly, I am proud to associate with your visionary leadership and commitment to the advancement of healthcare in Imo State. Your

Excellency, your presence at this esteemed conference has not only inspired the medical laboratory scientists but also reinforced the importance of collaboration between policymakers and healthcare professionals. Please accept my warmest congratulations on this achievement, and I wish you continued success in your endeavors. Thank you.

# CONGRATULATORY MESSAGE



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FROM ALL OF US AT THE SEAT OF THE CALIPHATE WE SINCERELY WISH TO CONGRATULATE AND FELICITATE WITH ALL OUR PROFESSIONAL MEMBERS OF THE ASSOCIATION OF MEDICAL LABORATORY SCIENTIST OF NIGERIA (AMLSN) BOTH IN NIGERIA AND DIASPORA ON THE OCCASION OF OUR ATTAINMENT OF 60TH ANNIVERSARY THE DIAMOND JUBILEE HOLDING AT OWERRI IMO STATE CAPITAL WE PRAY TO ALMIGHTY ALLAH TO CONTINUE TO BLESS AND PROTECT OUR LEADERSHIP



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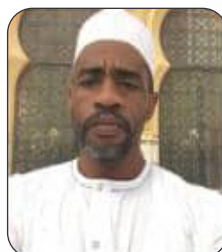
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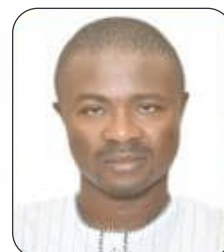
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PUBLICITY SECRETARY



**MLS. NAJA'ATU ABDULLAHI**  
WELFARE DIRECTOR



**MLS. ABUBAKAR USMAN**  
AUDITOR



**AMB. SHEHU MUSA ADAMU**  
EX-OFFICIO

## Felicitations Message

On behalf of AMLSN Kano State Branch,  
I wish to congratulate all Medical Laboratory Scientist in Nigeria  
and the Diaspora on the occasion of our 60th Anniversary.

This is an important milestone for all of us, and a moment for us to  
reflect and also appreciate those who made endless sacrifices  
that paved the way for us to be where we are today.

May their sacrifices not be in vain, and may AMLSN live to see  
more fruitful years ahead.



**CELTECH**  
Dialysis Couch/  
Blood Donors Couch

New Improved Celtech Sensitivity Disc  
Celtech Gram Positive and Negative Disc



A - GRAM POSITIVE	
1	MP - Imipenem/Cilastatin - 10/10ug
2	CMX - Cefoxime - 30ug
3	OFX - Ofloxacin - 5ug
4	ERY - Erythromycin - 15ug
5	GN - Gentamycin - 10ug
6	AZN - Azithromycin - 15ug
7	AUG - Amoxicillin Clavulanate - 30ug
8	CTX - Cefotaxime - 25ug
9	CRO - Ceftriaxone sulbactam - 45ug
10	ZEM - Cefexime - 5ug
11	LBC - Levofloxacin - 5ug
12	CIP - Ciprofloxacin - 5ug
B - GRAM NEGATIVE	
1	AUG - Amoxicillin clavulanate - 30ug
2	CTX - Cefotaxime - 25ug
3	IMP - Imipenem/Cilastatin - 10/10ug
4	OFX - Ofloxacin - 5ug
5	GNU - Gentamycin - 10ug
6	NA - Nalidixic Acid - 30ug
7	NF - Nitrofurantoin - 300ug
8	CMX - Cefuroxime - 30ug
9	CRO - Ceftriaxone Sulbactam - 45ug
10	ACX - Ampiclox - 10ug
11	ZEM - Cefexime - 5ug
12	LBC - Levofloxacin - 5ug

**NEW PACKING**  
Individual ring packed in PP bag for safety and sterility of each ring  
Even if individual ring is contaminated it cannot spread to other rings in the container.  
Container is square type with labels on top and side surfaces. Lid can be opened easily. Container being rectangular the stacking space in the refrigerator can be saved as compared to earlier round container.

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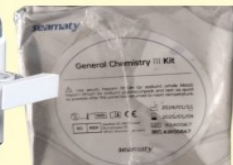
**LCD**  
Digital Screen Microscope



**Seamaty**  
Biochemistry Analyzer



**HEMOCUE**  
HB 201 System



**Seamaty**  
General Chemistry Kits



Disposable Medical Cervical  
Wood Scraper



Disposable Virus  
Sampling Tube



Pharmacy Refrigerator  
Thermometer



Specimen Collection Swab



12 Panel Drug of Abuse  
(Toxicology Kit)



Blood Collection Tubes



**HEMOCUE**  
HB 301 SYSTEM



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**ASSOCIATION OF MEDICAL  
LABORATORY SCIENTISTS OF NIGERIA**  
**F.M.C ASABA**



**"DIAMOND JUBILEE ANNIVERSARY MESSAGE"**

To Our Esteemed National Body, AMLSN,

On behalf of the entire membership of AMLSN FMC Asaba,  
we extend our warmest congratulations to the Association of  
Medical Laboratory Scientists of Nigeria (AMLSN)  
on the momentous occasion of your Diamond Jubilee Anniversary.  
"60 Years of Unwavering Commitment to Medical Laboratory Excellence."



Courtesy: EXCO  
AMLSN F.M.C ASABA

# miLab™ : MALARIA DIAGNOSIS

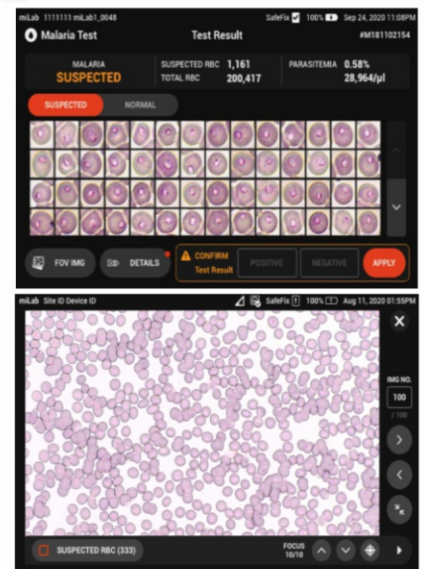
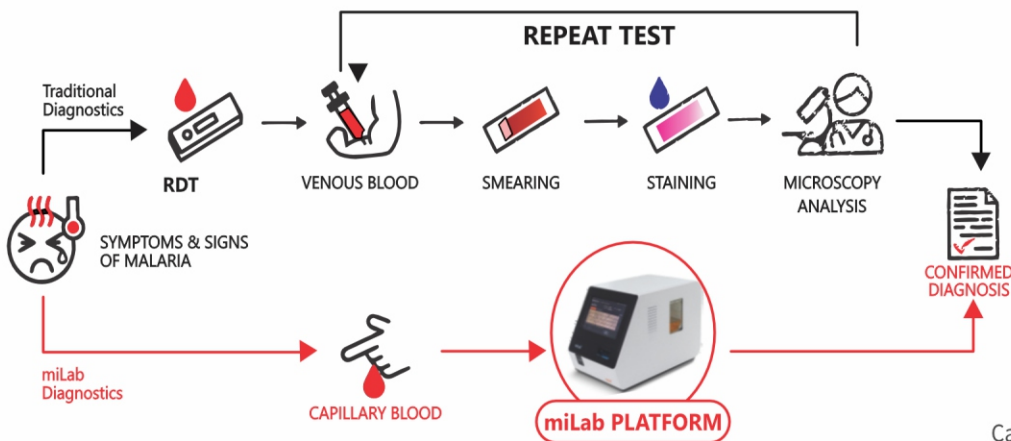
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*Automated Workflow, Quick Diagnosis and Increased Accuracy*



miLab Malaria Diagnostics Platform dramatically improved the gold standard malaria testing by combining the diagnostic prowess of artificial intelligence (AI) analytics, automated blood smearing and staining, and powerful digital microscope - a in a compact, point-of-care testing platform.



Captured Image from miLab™ malaria module

## FEATURES

- AI driven onsite diagnostics platform
- Automated sample slide-prep and imaging to diagnosis
- 5uL blood per test
- Liquid and washing free
- 12 to 15 minutes run time per sample
- 7.5inch touch screen
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