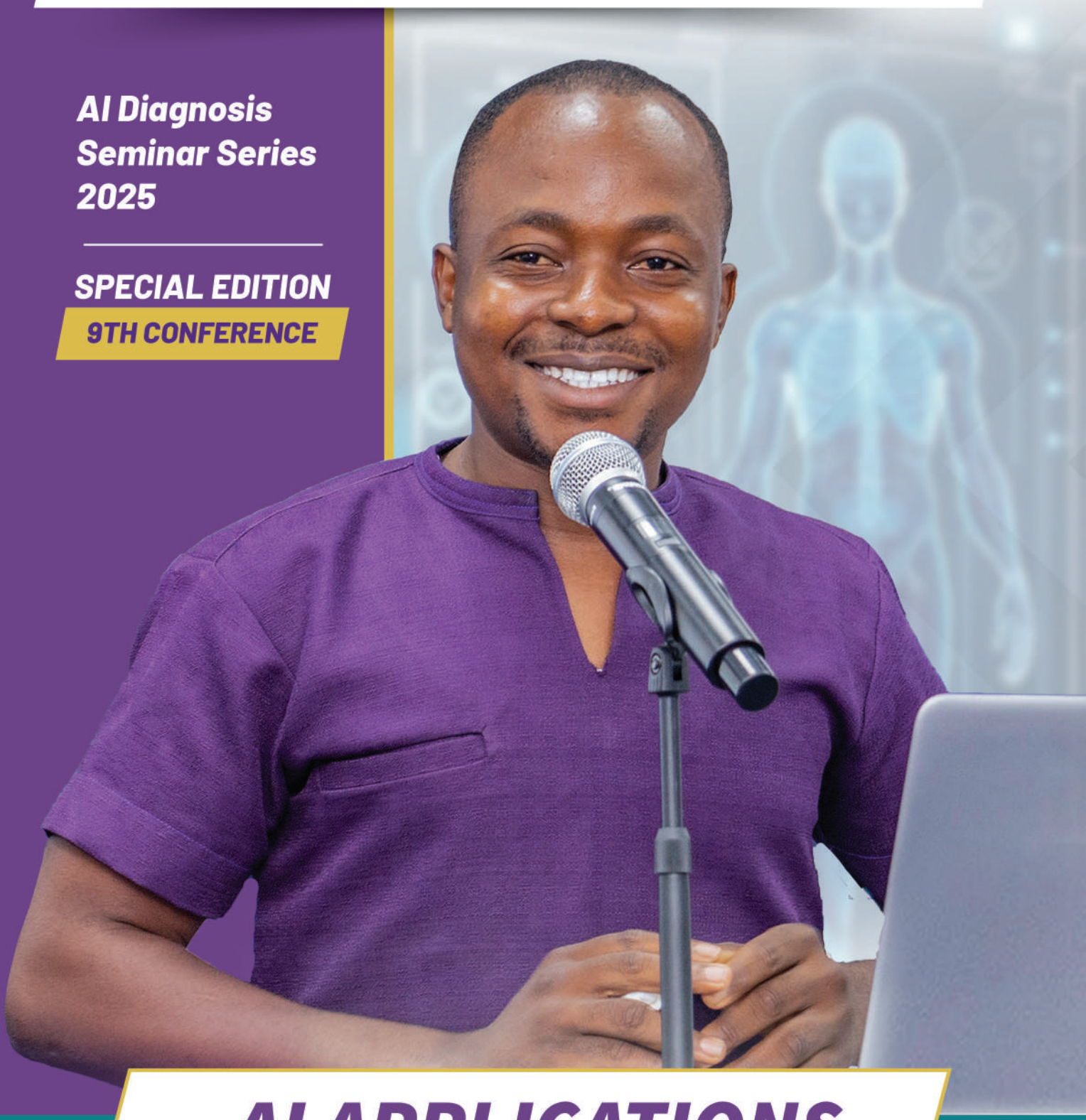
HCOWA ASSOCIATION | Health Pulse | HON | essence Clinic & Medical Laboratory | HCOWA GHANA LIMITED COMPANY

AI Diagnosis Seminar Series 2025

SPECIAL EDITION

9TH CONFERENCE



AI APPLICATIONS

WEST AFRICAN HOSPITALNEEDS EXCHANGE MEETING

MR. SAMUEL YAWSON AYIKANLE
REGULATORY OFFICER AT FOOD AND DRUGS AUTHORITY, GHANA(FDA)

ADU KONADU EDITH
HEALTHNET SWAN MEDICAL CENTRE

MICHAEL ABEKU YANKSON
HEALTH SERVICES ADMINISTRATOR, MAB HOSPITALS

DR. PAULINA DENTEH
DIRECTOR OF HCOWA WOMEN'S HEALTH

Event Introduction

Introducing the **Special Edition Book** from the Health Community of West Africa Association (HCOWAA), a comprehensive publication that distills the key insights and outcomes from the 8th Symposium on AI **Applications in West African Hospital Needs Exchange Meeting, held on May 23, 2025,** at the HCOWAA Headquarters in Accra. Under the theme "Strengthening Hospital Support and Regional Medical Supply Systems." This book embodies HCOWAA's commitment to leveraging innovation and collaboration to enhance public health in Ghana and the broader West African region.

Since its founding, HCOWAA has remained committed to fostering partnerships, driving knowledge exchange, and championing technological innovation in healthcare systems. The 2025 seminar reaffirmed this vision by assembling an impressive network of stakeholders not only from Ghana but also from across the West African region, including representatives from Togo, Nigeria, Côte d'Ivoire, Senegal, Niger, Guinea, Burkina Faso, as well as international participants from China. This diverse gathering of experts from healthcare, technology, academia, and policy sectors provided a vibrant platform for critical dialogue, strategic collaborations, and collective action.

Healthcare professionals concur that AI integration in public health can transform disease prediction, diagnosis, healthcare delivery, and national preparedness, but stress that adopting and embracing artificial intelligence is key, with equity and community trust being paramount to ensure AI applications are effective and sustainable.

In his welcome address, the Vice President of HCOWA, **Mr. Prince Opoku Dogbey** explained that HCOWA's AI-powered medical imaging system enables hospitals and clinics to upload images for expert analysis, generating detailed reports. This solution leverages big data and smart systems, allowing doctors to automate image analysis for faster and more accurate results, particularly benefiting facilities with limited medical staff or expertise.

Mr. Yosua Kodjovi Domedjui, Content Director of HCOWAA, presented on the Health Pulse Magazine, a weekly publication that educates the public on health issues, promotes healthy living, and supports health professionals. He proposed a partnership with hospitals and medical institutions to share verified health data, aiming to support Ghana Health Service initiatives, provide trustworthy information, and foster partnerships through articles, data-driven pieces, and success stories.

The manager of Essence Clinic and Medical Laboratory and the Director for Education and Training, H-MAEC, **Mr. Benjamin Kwei Mensah** emphasized that AI augments human care in healthcare, facilitating faster and more accurate decision-making.

He outlined steps for creating AI-ready hospitals, including digital infrastructure investment, promoting local innovation, and ensuring ethical AI use. He called for harnessing AI to solve longstanding problems, envisioning a proactive, intelligent, and resilient West African healthcare system that is predictive, efficient, and accessible.

Mr. Samuel Yawson Ayikanle, a regulatory officer with the Food and Drugs Authority (FDA) in Ghana, noted that AI-powered chatbots can provide personalized medical advice, basic consultations, and health information, bridging communication gaps and reducing the burden on healthcare professionals.

He also highlighted that AI can automate health history tracking, manage patient data, and optimize workflows, enhancing operational efficiency and resource allocation in healthcare facilities.

Dr. Paulina Denteh, Director of HCOWAA Women's Health, emphasized the need for West Africa to harness technology, including AI, to revolutionize healthcare, improving patient care and access to information while preserving the human touch. She called for collective action, urging healthcare professionals from urban hospitals to rural health centers to join forces in leveraging these innovations to build a better healthcare future for the region.

The Administrator of MAB International Hospital, **Mr. Michael Abeku Yankson**, stressed the need to strengthen procurement systems, support local drug manufacturing, and enhance regulation for quality and affordability. He also emphasized integrating emergency preparedness, expanding and modernizing hospital infrastructure, and ensuring reliable essential services to meet growing demand.

The seminar underscored the importance of collaboration and knowledge sharing in driving innovation and improving healthcare outcomes in West Africa. Experts agree that adopting AI-driven solutions and global standards is crucial for building resilient healthcare systems and enhancing patient care. By working together and leveraging AI technologies, West Africa can create a more efficient and effective healthcare system that benefits all.

The 8th National Symposium marked a significant milestone, solidifying HCOWAA's role in advancing innovative and sustainable healthcare solutions. By championing responsible innovation, HCOWAA is fostering a future where technology empowers communities and enhances health outcomes across Ghana and West Africa.

Join us on a journey through the following pages, where we explore groundbreaking discussions, illuminating insights, and visionary commitments that are redefining public health innovation and expanding the possibilities for a healthier future.

Human Evolution with Ai
HCOWA
HON
Health Pulse
2025
WEST AFRICA
AI HEALTHCARE
SUMMIT &
CONFERENCE
WEST
AFRICAN
HOSPITAL
NEEDS
EXCHANGE
MEETING

HCOWA

SECTION

(SPEECHES)

Welcome Address

DELIVERED BY MR. PRINCE OPOKU DOGBEY, VICE PRESIDENT OF THE HEALTH COMMUNITY OF WEST AFRICA ASSOCIATION, AT THE AI APPLICATIONS – WEST AFRICAN HOSPITAL NEEDS EXCHANGE MEETING.

Theme: "Strengthening Hospital Support and Regional Medical Supply Systems"

It is with immense joy, pride, and a deep sense of purpose that I welcome each and every one of you to this historic gathering the Al Applications- West African Hospital Needs Exchange Meeting hosted by the Health Community of West Africa (HCOWA), Association right here in the heart of Accra.

We are equally honored to have with us Madam Sihong Jiang, our respected partner and bridge between West Africa and our friends in China. Madam, your unwavering commitment to collaboration and shared growth means a lot to this community.

To all our distinguished doctors, health officials, and health professionals representing countries across Africa, your presence here signifies unity of purpose. You are the reason this movement is more than a vision - it is a reality in motion.

On behalf of the Health Community of West Africa - HCOWA - I welcome you with a heart full of appreciation and a mind full of expectation. Your presence here is a clear reflection of your dedication to shaping a new chapter in public health, driven by knowledge, partnerships, and the power of artificial intelligence.

Today's meeting is more than a conference; it is a call to action. Our theme, "Strengthening Hospital Support and Regional Medical Supply Systems," reflects a shared urgency—one that resonates across borders, disciplines, and institutions. It is about ensuring that every hospital, regardless of size or location, has timely access to the life-saving medicines, diagnostic tools, and emergency supplies needed to serve their communities.

As we gather here, we recognize the evolving challenges facing hospitals across West Africa—from rising demand and fragmented supply chains to the ongoing strain on public health systems. We also acknowledge the enormous potential of Artificial Intelligence to bring about a new era of intelligent healthcare delivery.

This meeting will spotlight how AI can be a game-changer in hospital logistics and medical supply chain coordination. From predictive analytics to real-time inventory tracking, from automated replenishment systems to innovative last-mile delivery solutions—AI offers us a powerful toolkit to make healthcare smarter, more responsive, and more equitable.

But technology alone is not enough. Success will require strong collaboration among governments, hospitals, development partners, technology providers, and frontline health workers. It will demand bold policy direction, investment in capacity-building, and the development of ethical and regulatory frameworks to guide the responsible use of AI in healthcare.

Let this gathering be the start of that collective journey. I encourage all participants to share knowledge openly, ask hard questions, and explore practical pathways for implementation. Together, we can design solutions that are not only innovative but sustainable and scalable across our region.

Once again, I welcome you all to this important meeting. Thank you for joining us in our mission to reimagine healthcare support systems in West Africa. May today's discussions be insightful, productive, and full of inspiration.

SPEECH DELIVERED BY MR. MENSAH KWEI BENJAMIN, MANAGER OF THE ESSENCE CLINIC AND MEDICAL LABORATORY, ON "WHAT HOSPITALS NEED: THE AI APPROACH" AT THE AI APPLICATIONS WEST AFRICAN HOSPITAL NEEDS EXCHANGE MEETING.

Director for Education and Training, HCOWA Academic and Exchange Committee, Distinguished guests, fellow healthcare professionals, development partners, and esteemed colleagues, good morning. It is a profound honor to stand before you today as we gather under the auspices of the Health Community of West Africa Association (HCOWA) for this landmark West African Hospital Needs Exchange Meeting. This seminar reflects a shared urgency and a collective will to address one of the most pressing realities of our time — the persistent gaps in hospital operations and the untapped potential of innovation, particularly Artificial Intelligence (AI), to help close those gaps.

What Do Our Hospitals Need?

Let us begin by acknowledging the undeniable truth: hospitals across the West African sub-region are under immense pressure. Whether in rural clinics or urban referral centers, the needs are clear and consistent:

1. Reliable Access to Medicines and Supplies
2. Functional Equipment and Infrastructure
3. Efficient Workforce Management
4. Streamlined Operational Processes
5. Robust Emergency Preparedness

These are not just isolated issues — they are systemic challenges that call for systemic solutions.

Where Does AI Come In?

Artificial Intelligence offers us a transformative toolkit. It is not a magic wand, but it is a powerful engine to help us see more clearly, act more swiftly, and plan more intelligently. Here's how:

1. Predictive Analytics for Supply Chain Optimization
AI can analyze historical consumption patterns, seasonal trends, and patient loads to forecast hospital needs accurately. This enables hospitals to avoid overstocking or stockouts — ensuring that medicines, reagents, and consumables are always available when needed.

2. Smart Inventory Management Systems
AI-driven platforms can track real-time inventory levels, flag discrepancies, and automate reordering processes. This helps reduce wastage, pilferage, and expired stock, making every cedi spent count.

3. Clinical Equipment Monitoring
With IoT integration, AI can help monitor the status of clinical equipment — predicting failures before they occur, scheduling maintenance, and extending equipment lifespan.

This is crucial in resource-constrained environments where equipment downtime can cost lives.

4. Workforce and Task Allocation
AI can optimize staff schedules, reduce burnout, and match workforce capacity to service demand. Imagine a hospital where every nurse, every lab technician, and every doctor is deployed precisely where they are needed most.

5. Emergency Response Coordination

AI platforms can assist in real-time data sharing across borders — helping hospitals anticipate surges, coordinate emergency supplies, and respond collectively to outbreaks and disasters.

6. Optimizing Patient Care with AI
Beyond logistics and planning, AI can revolutionize how we care for patients:

- Clinical Decision Support: AI-powered systems can assist doctors by analyzing patient data, lab results, and clinical histories to suggest evidence-based diagnoses and treatment plans — especially helpful in facilities with staff shortages or limited specialist access.

- Remote Patient Monitoring: With wearable devices and AI algorithms, hospitals can monitor vital signs in real-time and be alerted to early warning signs — reducing hospital readmissions and improving chronic disease management.

- Personalized Care Plans: AI can segment patients based on risk profiles and suggest tailored interventions. This means no more one-size-fits-all care, but individualized plans that improve outcomes and resource use.

- Faster Triage and Emergency Response: In overcrowded emergency units, AI can rapidly assess patient data to prioritize the most critical cases — saving lives when minutes matter.

In summary, AI doesn't replace the human touch; it enhances it — giving clinicians better tools to make faster, more accurate, and more compassionate decisions.
The Way Forward: Building Collaborative, AI-Ready Hospitals

As HCOWA champions regional health cooperation, we must take deliberate steps to:

- Invest in digital infrastructure and train our staff to work with AI systems.
- Encourage local innovations that are context-sensitive and scalable.
- Develop regional AI data-sharing frameworks to harmonize procurement, logistics, and reporting systems.
- Ensure ethical and inclusive AI deployment that protects patient privacy and promotes equitable access.

This meeting is not just an exchange of needs. It is a call to action — to harness the full power of artificial intelligence to solve the practical problems that have hindered us for too long. Let us imagine a West Africa where hospitals are no longer reactive but proactive, where our systems are not just functional, but intelligent. And where healthcare is not just accessible, but predictive, efficient, and resilient.

Thank you, and may this gathering light the path toward smarter, stronger hospitals across our region.

Thank you.

SPEECH DELIVERED BY DR. PAULINA DENTEH, DIRECTOR OF HCOWA WOMEN'S HEALTH, AT THE AI APPLICATIONS – WEST AFRICAN HOSPITAL NEEDS EXCHANGE MEETING ON TRANSFORMING HEALTHCARE IN WEST AFRICA: THE POWER OF AI FOR BETTER PATIENT CARE.

Good morning, distinguished colleagues, healthcare leaders, and innovators.

My name is Paulina Denteh, and I serve as Director of HCOWAA Women's Health. Today, I want to share with you an exciting opportunity that can change how we care for our patients across West Africa.
Every day in our hospitals and clinics, we see the same problems. Patients wait hours for simple questions to be answered. They leave confused about their medications.

They don't understand their treatment plans. Our healthcare workers are overwhelmed, trying to serve too many people with too few resources. But what if I told you there's a solution that works 24 hours a day, speaks local languages, and never gets tired of answering questions? AI-powered chatbots are like having a helpful assistant that never sleeps. These computer programs can talk with patients through their phones or computers. They answer questions, explain treatments, and provide health education in simple language.

Think of it this way: instead of a patient calling the hospital at midnight worried about their medication, they can chat with an AI assistant that gives them immediate, accurate answers. The chatbot explains medical terms in simple words. If a patient doesn't understand diabetes, the chatbot breaks it down step by step. Whether it's 2 AM or during lunch break, patients get help when they need it most. These chatbots can speak Twi, Yoruba, Hausa, or any language our patients are comfortable with. Many patients are scared to ask doctors questions. They feel more comfortable asking a chatbot first. When patients understand their health better, they follow treatments correctly. When they get quick answers, they worry less. When they feel supported, they trust the healthcare system more. We've seen in other regions that AI chatbots reduce unnecessary hospital visits. They improve medication compliance. Most importantly, patients feel more confident about their health.
We have unique advantages. Our young population embraces technology quickly. Our mobile phone usage is among the highest in the world. Our healthcare challenges are clear, making solutions easier to identify. We can leapfrog older healthcare systems and build something better from the start.

The Challenges We Must Address
Not everyone has smartphones or reliable internet. We must find solutions that work for all income levels. People need to trust that AI gives accurate medical advice. We must test and verify every system carefully. Our healthcare workers need to learn how to work with AI tools. This requires investment in education. AI must understand our local context, not just translate foreign solutions. Patient information must stay secure and confidential.

A Personal Commitment
At HCOWA Women Health, we're already exploring these possibilities. We're learning what works and what doesn't. But we need you to join us. Whether you manage a hospital in Accra, or work in a rural health center in Walewale, there's a role for you in this transformation. Every day we delay, patients continue to struggle with preventable problems. Every month we wait, we fall further behind regions that are already using these tools. But every step we take together brings us closer to healthcare that truly serves our people.

Conclusion

To conclude, we stand at a crossroads. We can continue with healthcare as usual, or we can embrace tools that multiply our impact and improve millions of lives. The choice is ours. The technology is ready. The need is urgent. Let's build the future of healthcare in West Africa together. Let's use AI not to replace the human touch, but to enhance it. Let's ensure that every patient, in every corner of our region, has access to the care and information they deserve.
Thank you for your attention, and thank you for your commitment to better healthcare for all.

SECTION

POWERPOINT PRESENTATION

GUEST OF HONOUR

MICHAEL ABEKU YANKSON, HEALTH SERVICES ADMINISTRATOR, MAB HOSPITALS

ENHANCING HEALTHCARE DELIVERY IN WEST AFRICA: CHALLENGES AND STRATEGIC PRIORITIES

Healthcare delivery in West Africa involves the coordinated provision of medical services through various levels of care—from community health posts to national teaching hospitals. Despite progress, systemic challenges continue to undermine the quality, accessibility, and sustainability of care across the region.

Understanding Healthcare Delivery

Healthcare delivery encompasses all organizational structures, resources, and processes used to provide medical services—from prevention and diagnosis to treatment and rehabilitation. In West Africa, the system is structured into three levels:

- Primary Care: Community clinics offering basic services.
- Secondary Care: District hospitals handling complex cases.
- Tertiary Care: National hospitals delivering specialized services.

Ownership is spread across public, private, Christian (CHAG), and quasi-governmental facilities.

Key Challenges Facing West African Hospitals

1. Inadequate Infrastructure & Equipment
Outdated technology, unreliable utilities, and overcrowded facilities limit care quality.
2. Workforce Shortages
A deficit of skilled professionals, brain drain, and poor working conditions contribute to staff inadequacy.
3. Weak Health Information Systems
Lack of digitized records and poor data systems hamper planning and policy decisions.
4. Funding Deficits
Overreliance on donor funds and misallocation of government resources challenge sustainability.
5. Limited Access to Medicines
Frequent stockouts, high drug costs, and counterfeit risks plague supply chains.
6. Poor Epidemic Preparedness
Inadequate emergency response capacity and insufficient training for health crises like Ebola and COVID-19.

Strategic Priorities for Improvement

1. Infrastructure & Technology
Expand hospital capacity and invest in diagnostic tools and reliable utilities.
2. Health Workforce Development
Boost training, improve work conditions, and encourage local medical education.
3. Digital Health Systems
Introduce electronic health records and mobile health solutions to reach underserved areas.
4. Sustainable Financing
Increase health budgets, attract public-private partnerships, and ensure financial transparency.
5. Medicine Accessibility
Enhance procurement, support local pharmaceutical production, and enforce drug regulation.
6.Emergency Preparedness
Institutionalize epidemic response plans, build rapid-response units, and conduct regular simulations.

Conclusion

Improving healthcare delivery in West Africa requires collaborative efforts among governments, providers, donors, and communities. With focused investment and strategic reforms, the region can establish resilient health systems that deliver equitable and high-quality care.

POWERPOINT PRESENTATION

ENHANCING HEALTHCARE DELIVERY: ADDRESSING KEY CHALLENGES AND PRIORITIES IN WEST AFRICAN HOSPITALS.

BY: MICHAEL ABEKU YANKSON.
HEALTH SERVICES ADMINISTRATOR.
MAB HOSPITALS.

Meaning of Healthcare Delivery:

- **Healthcare delivery refers to the mechanism by which healthcare services are provided to individuals. It includes the organization of people, institutions, resources, and processes to ensure effective and efficient delivery of medical services to those who need them. This encompasses everything from preventive care and health education to diagnosis, treatment, rehabilitation, and palliative care.**

Structure of Healthcare Delivery

- **A. Levels of Care**
- West African healthcare systems typically follow a three-tiered model:
- **Primary Care**: Local health posts and community clinics handle basic care, maternal-child health, and vaccinations.
- **Secondary Care**: District and regional hospitals manage more complex cases and offer diagnostic and specialist services.
- **Tertiary Care**: National and teaching hospitals provide highly specialized services, advanced diagnostics, and surgical procedures.

- **B. Ownership and Management**
- **Public Hospitals**: Managed by ministries of health; form the backbone of healthcare delivery.
- **Private Hospitals**: Include for-profit and not-for-profit facilities, often providing more efficient service but at higher costs.
- **CHAG**-Christian Health Facilities.
- **Quasi-Government**-Not fully owned, operated by Government..

- **Enhancing Healthcare Delivery: Addressing Key Challenges and Priorities in West African Hospitals**

Healthcare systems in West Africa face persistent challenges that hinder the delivery of effective and equitable services. Despite regional and international efforts, many hospitals in the region struggle with resource constraints, infrastructure limitations, and workforce shortages. This presentation identifies key challenges and proposes priorities for enhancing healthcare delivery in West African hospitals

Key Challenges

A. Inadequate Infrastructure and Equipment

- **Many hospitals in West Africa operate with outdated or insufficient medical equipment.**
- **There is unreliable electricity and water supply that hamper effective treatment and diagnostics.**
- **Overcrowding due to limited space and high patient-to-bed ratios in most facilities.**

B. Healthcare Workforce Shortages

- Limited numbers of trained medical professionals (doctors, nurses, specialists,etc).
- Brain drain: migration of skilled workers to more developed countries.
- Poor working conditions and inadequate compensation.

C. Weak Health Information Systems

- Lack of digitized patient records and data-sharing platforms.
- Limited use of health informatics for policy and planning.
- Poor monitoring and evaluation systems.

D.Inadequate Funding and Poor Resource Allocation

- Overreliance on donor funding with unpredictable sustainability.
- Insufficient government budget allocations for health.
- Corruption and mismanagement of funds

E. Limited Access to Essential Medicines

- Frequent stock outs and supply chain inefficiencies.
- High cost of medicines for patients.
- Poor regulation of pharmaceuticals and counterfeit drug risks

F. Epidemic Preparedness and Response

- Inadequate capacity to handle Public health emergencies (e.g. Ebola, COVID-19).
- Poor integration of emergency response plans into hospital systems.
- Insufficient training for frontline workers.

Priorities for Improvement in Hospitals

A. Investment in Infrastructure and Technology

- Expand and modernize hospital facilities.
- Invest in diagnostic tools and medical technologies.
- Improve power and water supply in healthcare settings

B. Strengthening the Health Workforce

- Expand training programs and retain skilled personnel.
- Improve working conditions, salaries, and career progression.
- Encourage local medical education and partnerships.

C. Digital Health and Information Systems

- Implement electronic health records (EHRs).
- Use mobile health (mHealth) to extend services to remote areas.
- Develop real-time data systems for better decision-making.

D. Sustainable Health Financing

- Increasing national budget allocation to health.
- Promote public-private partnerships.
- Strengthen financial accountability and transparency mechanisms.

E. Access to Essential Medicines and Supplies

- Strengthen procurement and distribution systems.
- Support local pharmaceutical production.
- Enhance regulatory frameworks to ensure drug safety and affordability.

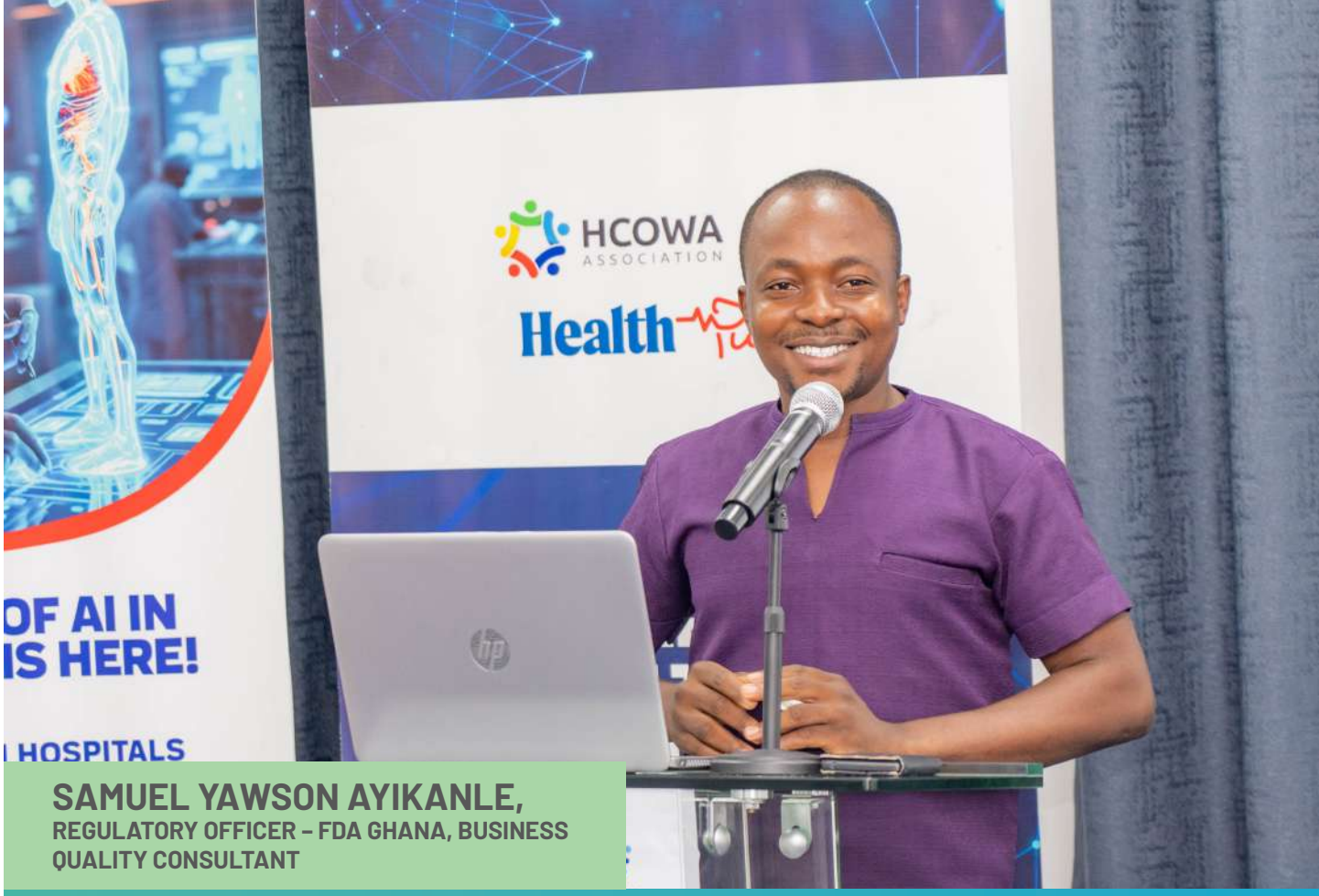
F. Resilience and Emergency Preparedness

- Integrate epidemic preparedness into hospital operations.
- Establish rapid response units and stockpiles of critical supplies.
- Conduct regular training and simulations for health emergencies.

In Conclusion

- Addressing these challenges requires a coordinated approach among governments, healthcare providers, donors, and communities. By focusing on these strategic priorities, West African nations can build more resilient health systems that provide high-quality, accessible care for all.

THANK YOU.



SAMUEL YAWSON AYIKANLE,
REGULATORY OFFICER – FDA GHANA, BUSINESS QUALITY CONSULTANT

INTEGRATING ARTIFICIAL INTELLIGENCE TO ENHANCE QUALITY HEALTHCARE IN GHANA

The integration of Artificial Intelligence (AI) into healthcare holds transformative potential for Ghana's health system. AI technologies are revolutionizing how care is accessed, delivered, and monitored—offering opportunities to overcome long-standing challenges and improve patient outcomes across the country.

Human Evolution and AI

The adoption of AI represents a leap in healthcare's evolution. From basic digital systems to intelligent automation, AI is reshaping how medical decisions are made, resources are used, and patients interact with care providers.

Key Applications of AI in Healthcare

1.Personalized Chatbots
AI chatbots break language barriers and improve communication by offering real-time, personalized patient support.

2.Automated Health Records & Data Management
AI systems track health history and manage patient data more efficiently, improving accuracy and continuity of care.

3.Workflow Automation & Resource Optimization
AI optimizes hospital operations—automating workflows, enhancing efficiency, and improving allocation of limited resources.

4.Precision in Treatment
Data-driven insights allow for more accurate and personalized treatments based on trends and patient profiles.

5. Telemedicine & Triage
AI enables automated appointment scheduling and triage, reducing waiting times and increasing access, especially in remote areas.

6.Early Detection and Diagnosis
AI tools offer faster, more precise diagnostics, aiding early disease detection and timely intervention.

Challenges and Considerations

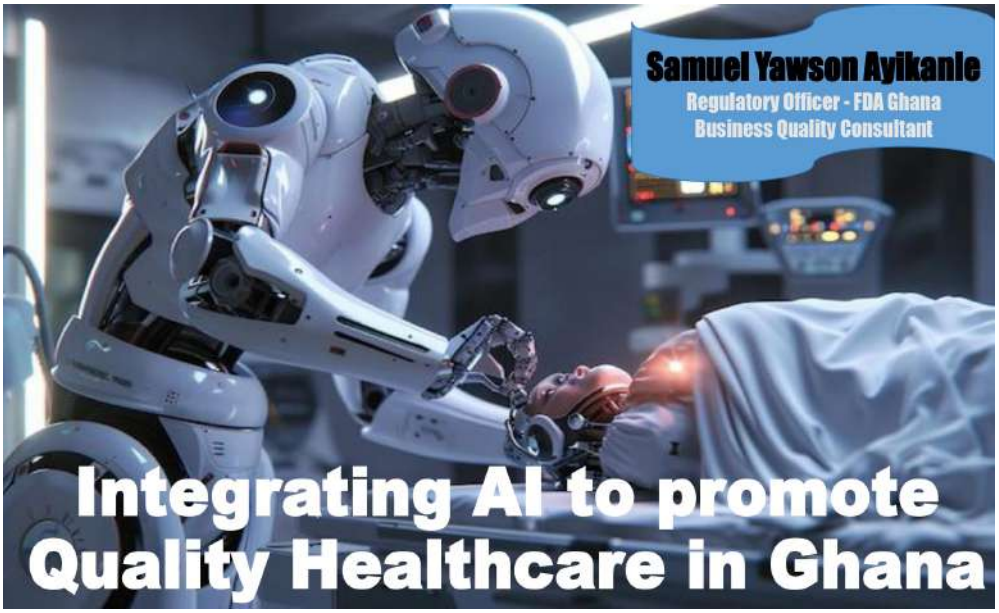
While AI brings immense benefits, its implementation must address several critical issues:

- Privacy & Data Security: Protecting sensitive health data remains a top priority.
- Illiteracy & Access Gaps: Technological literacy and equitable access must be considered to avoid widening health disparities.
- Cost & Sustainability: Long-term affordability and maintenance of AI solutions must be planned.
- Ethical and Regulatory Oversight: Transparent guidelines and oversight are needed to ensure responsible AI use in healthcare.

Conclusion

Integrating AI into Ghana's healthcare system can significantly enhance service quality, efficiency, and accessibility. However, the journey must be guided by ethical foresight, inclusive planning, and strong regulatory frameworks to ensure AI serves all segments of society equitably and sustainably.

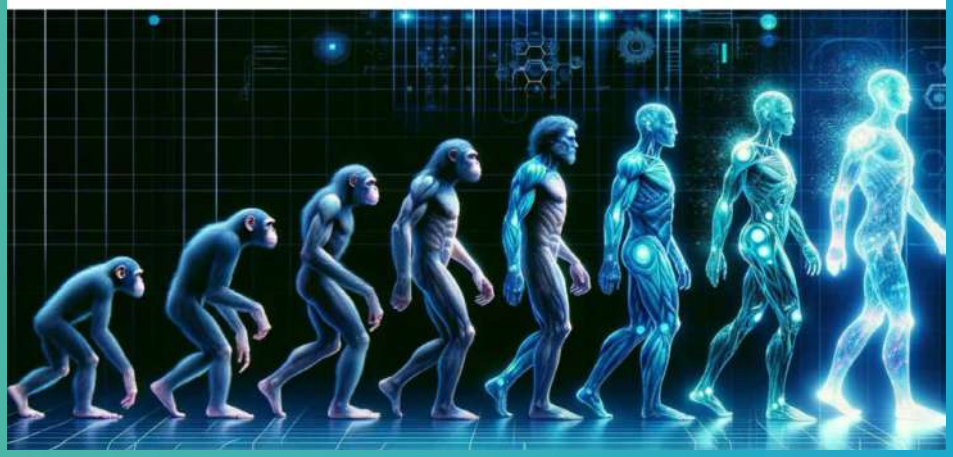
POWERPOINT PRESENTATION



OUTLINE

- Ai Evolution
- Quality Healthcare
- Digitalisation vs Ai Integration
- Impact: Ai Integrated Healthcare
- Potential Threats
- Ai Drivers

Human Evolution with Ai



Quality Healthcare

- Patient Safety
- Patient-Centered
- Evidence-Based Medicine
- Exceeding Patient Expectation

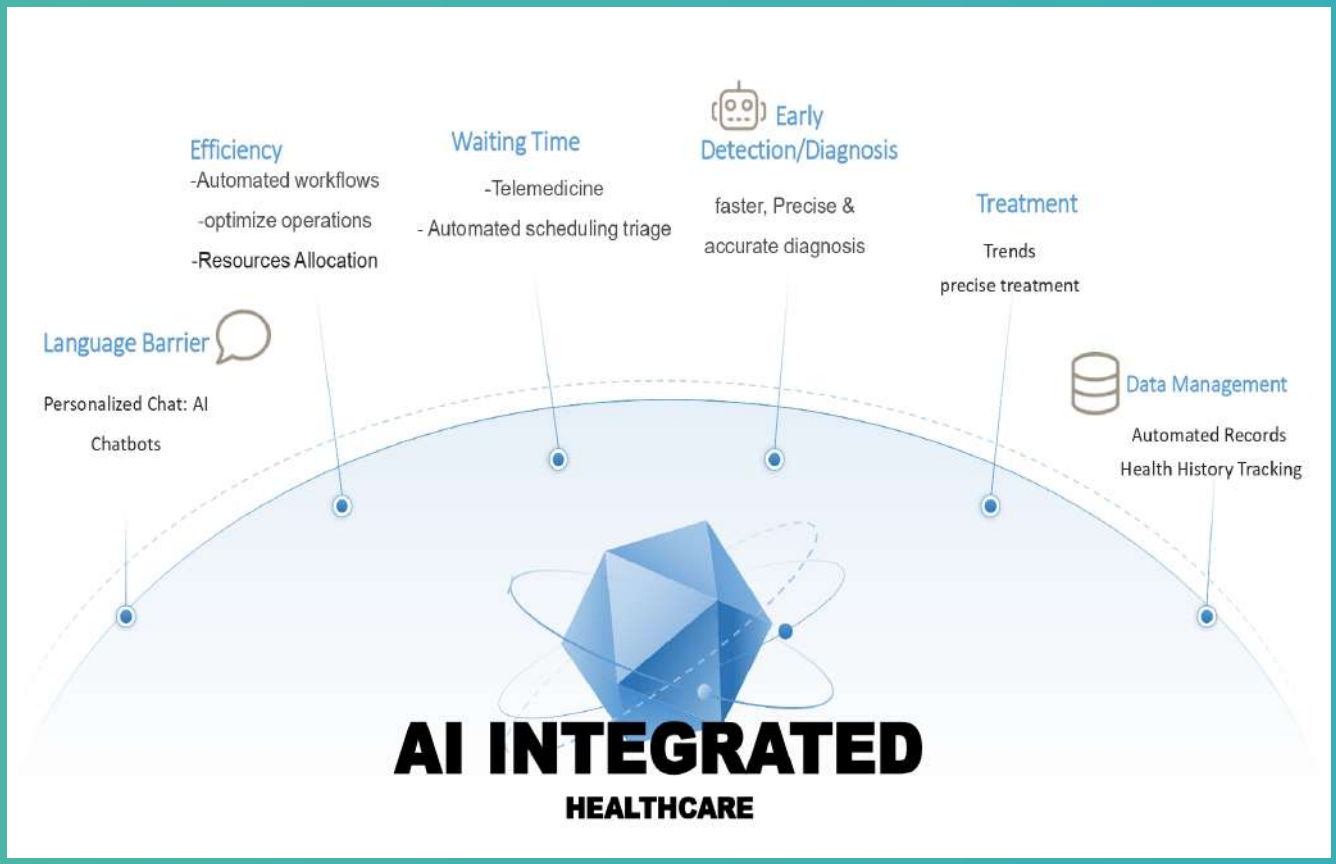
Digitalisation → AI Integration

Digitization
- computerised

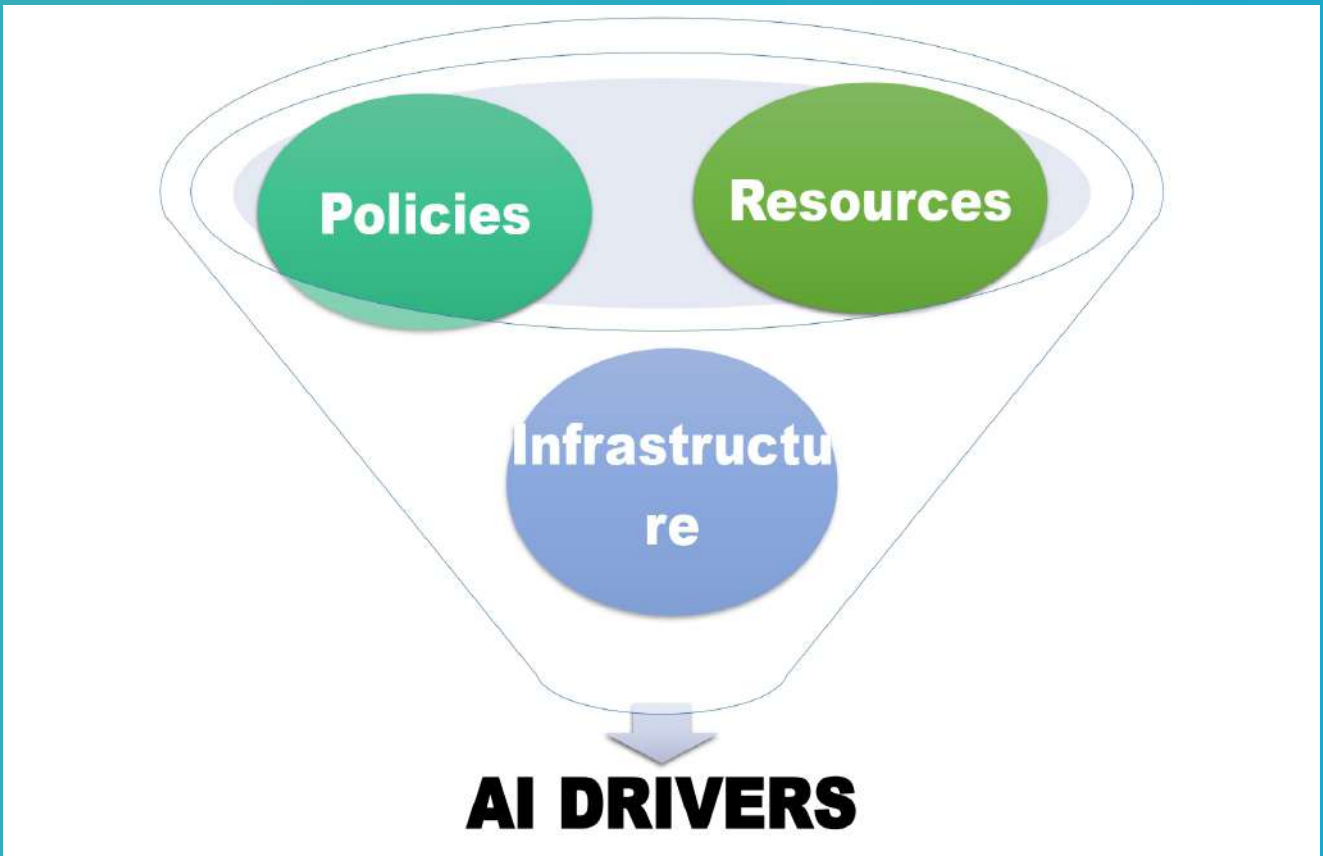
IT system
- Computers, IoT

Digital Transformation
- Machine Learning

Data mining
- Deep Learning


Efficiency
-Automated workflows
-optimize operations
-Resources Allocation
Waiting Time
-Telemedicine
- Automated scheduling triage
Early Detection/Diagnosis
faster, Precise & accurate diagnosis
Treatment
Trends
precise treatment
Language Barrier
Personalized Chat: AI Chatbots
Data Management
Automated Records
Health History Tracking
AI INTEGRATED
HEALTHCARE

Potential Threats
Ethical Consideration
Cost Sustainability
Illiteracy Gap
Privacy & Security


Policies
Resources
Infrastructu
re
AI DRIVERS

THANK
YOU

YOSUA KODJOVI DOMEDJUI
DIRECTOR OF CONTENT, HCOWAA

INTRODUCING THE HEALTH PULSE MAGAZINE

Health Pulse Magazine is the official weekly publication of the Health Community of West Africa Association (HCOWAA). Launched as a powerful tool for public health communication, the magazine is committed to educating, informing, and empowering both healthcare professionals and the wider public across Ghana and the West African sub-region.

In an era where health misinformation spreads faster than facts, Health Pulse Magazine stands as a trusted voice. Our publication acts as a bridge between hospitals, research institutions, frontline workers, and communities.

Through curated articles, interviews, health features, and data-driven reporting, we provide readers with reliable and relevant health content that enhances well-being and supports informed decisions.
Available in both print and digital formats, the magazine is accessible online via www.healthpulseonline.com. The digital edition ensures readers across borders can engage with the latest updates and educational campaigns regardless of location.

Our mission is clear: to provide reliable health information and promote healthy living across Ghana and West Africa. We feature stories of local medical heroes, highlight groundbreaking research, and raise awareness on pressing health issues. From tackling mental health stigma to breaking down scientific innovations into accessible language, every issue is crafted to educate, connect, promote, and inspire.

The magazine is structured around impactful sections, including:

- **Health News – Current health developments and policy updates.**
- **Disease In Focus – In-depth features on specific conditions.**
- **Health Myth Buster – Addressing misinformation.**
- **Africa in Focus – Regional health stories.**
- **Fitness and Exercise – Wellness routines and guidance.**
- **Healthy Living – Tips for lifestyle management and nutrition.**

In addition to these sections, we host a weekly editorial session, where our content team, writers, and designers brainstorm, review, and shape upcoming editions. These sessions ensure our content remains timely, accurate, and relevant to our readership's needs.
As our readership expands to include healthcare professionals, policymakers, and wellness-focused individuals, Health Pulse Magazine remains at the forefront of driving public awareness, fostering meaningful dialogue, and promoting healthier, more informed communities.

POWERPOINT PRESENTATION

Health Pulse Magazine

POWERED BY HCOWA ASSOCIATION

Presented by

YOSUA KODJOVI DOMEDJUI
Director of Content, HCOWAA

Introduction

What Is Health Pulse Magazine?

- A weekly health publication dedicated to educating and informing the public on issues of health with a goal of promoting healthy living Researched articles and support health professionals with top notch research by the Health Community of West Africa Association (HCOWAA).
- Serves as a bridge between health institutions, professionals, and communities.
- Available in both print and digital formats.

Health Pulse Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Our Mission

To provide reliable health information and promote healthy living across Ghana and West Africa.

- Disseminate accurate health information.
- Highlight medical professionals and success stories.
- Share research and innovations in an accessible manner.
- Support health education and community well-being.

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Magazine Structure

Key Sections Include:

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Our Reach and Impact

- Distributed across hospitals, clinics, pharmacies, and community health centers.
- Readership includes healthcare professionals, policymakers, and the general public.
- Digital presence through our website:

https://healthpulseonline.com

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Collaborating with Ghana Health Service

- **Objective:** To ensure the dissemination of accurate and up-to-date health information.
- **Proposal:** GHS to provide verified health data, updates, and insights.
- **Benefits:**
  - o Amplify GHS initiatives and campaigns.
  - o Educate the public with trustworthy information.
  - o Strengthen the partnership between HCOWAA and GHS.

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Featuring GHS in Health Pulse

- **Potential Contributions:**
  - o Articles on national health policies and programs.
  - o Data-driven pieces on health statistics and trends.
  - o Success stories from various regions and facilities.
- **Suggested Sections for GHS Content:**

Health News | Disease In Focus | Health Awareness | Africa In Focus

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Call to Action

We Invite GHS To:

- o Share timely and accurate health information.
- o Collaborate on public health campaigns.
- o Utilize Health Pulse as a platform to reach a broader audience.

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Meet the Team

Yosua Kodjovi Domedjui-Director

Gloria Addo - Content Writer

Priscilla Akorfa Fomevor – Content Writer

Emmanuel Lawoh Teleno – Creative Designer

Kwame Banahene - Creative Designer

Oscar Agbleke – cinematographer

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Contact Information:

info@healthpulseonline.com

+233 (531) 035 868

https://healthpulseonline.com

Health Pulse

Health Pulse Magazine: Amplifying Ghana and West Africa Health Narratives

Thank You

Health Pulse

Together, let's inform and empower Ghana's health journey

SECTION

OPEN FORUM

PERSPECTIVES ON AI INTEGRATION IN ADDRESSING THE NEEDS AND INSTITUTIONAL READINESS OF WEST AFRICAN HOSPITALS.

An open forum discussion, moderated by Mr. Benjamin Mensah Kwei, Manager of Essence Clinic Medical Laboratory, provided a platform for experts to share their insights and best practices in leveraging AI to solve the needs of West African Hospitals.

QUESTION: What are the gaps or some processes that you think AI can enhance at MAB International Hospital?

Mr. Michael Abeku Yankson emphasized the need to focus on the mindset of employees in the healthcare sector, rather than just their technical skills. He suggested that private institutions should prioritize this aspect, especially in light of new information and advancements. Additionally, he highlighted the importance of research and sharing insights, encouraging the organization to find ways to contribute to the growing body of knowledge in healthcare, even if it's through small-scale initiatives or publications.

QUESTION: What is a major issue you've had at Health net Swan Medical Centre when it comes to use of AI?

Adu Konadu Edith acknowledged the benefits of AI in healthcare, such as increased accessibility through their app, but also expressed concerns about its potential impact on employment. She underscored the worry that over-reliance on AI could lead to job losses, similar to what happened in manufacturing, and emphasized the need to balance the benefits of AI with consideration for its potential drawbacks. By doing so, they hope to find ways to harness AI's potential while preserving valuable human roles.

QUESTION: What is a major challenge you've had at Claron Health International with AI?

Solomon S. Ahenguah highlighted the app's role in making healthcare more accessible and convenient, noting that while AI can enhance the process, human involvement is still essential for tasks like blood collection. He emphasized the need to strike a balance between AI-driven automation and human intervention.
He also proposed developing a centralized app to connect pharmacies, enabling patients to easily compare prices and make informed purchasing decisions. Additionally, Ahenguah discussed the potential of AI in supply chain management, suggesting that predictive analytics can help anticipate low stock levels, enabling vendors to restock in a timely manner and maintain strong vendor relationships.

QUESTION: How then can AI improve healthcare services at our various health facilities?
Mr. Kubo suggested that AI can help alleviate common clinic challenges, such as lengthy wait times, mid-career doctor switches, and delayed lab results. By leveraging AI to optimize time management and workflow, clinics can reduce stress for both patients and healthcare staff, ultimately improving the overall efficiency and quality of care.

Comments From Moderator

Mr. Mensah pointed out the importance of transparency and credibility in healthcare, particularly with the new app and upcoming expo. He noted that the expo will feature medical equipment manufacturers offering competitive pricing, aiming to work closely with the Ministry of Health. An attendee's concern about expanding the one-stop-shop system beyond lab equipment to include other medical items was also highlighted, suggesting a desire for a more comprehensive solution.
HCOWA and Essence Clinic and Medical Laboratory are partnering with the Food and Drugs Authority to import various medical equipment, beyond just lab tools. Interested parties were invited to discuss further with the HCOWA marketing team. The importance of proper accreditation, such as FDA approval, was stressed to avoid issues like those experienced with the quantum analyzer. For more information, attendees were encouraged to reach out to Joe at Modern Hospital.

CONCLUDING REMARKS

AI is not meant to replace healthcare workers but to improve accuracy, efficiency, and help manage the heavy doctor-to-patient load. Specifically, in women's health, AI can help detect tiny, early-stage cancer cells that are often missed, leading to better diagnosis and treatment. Beyond health, AI can also assist in areas like personal hygiene, environment, and daily life, offering support and guidance.

SECTION

GALLERY
SEMINAR ON AI APPLICATIONS - WEST AFRICAN HOSPITAL NEEDS EXCHANGE MEETING

Patient Safety
Patient-Center
Evidence-Bas
Medicine
HCOWA

HCOWA

Key Challenges
A. Inadequate Infrastructure and Equipment
• Many hospitals in West Africa operate with outdated or insufficient medical equipment.
• There is unreliable electricity and water supply that hamper effective treatment and diagnostics.
• Overcrowding due to limited space and high patient-to-bed ratios in most facilities.
THE FUTURE OF AI IN HEALTHCARE IS HERE!
AI DEPARTMENTS IN HOSPITALS
HCOWA
HCOWA
ASSOCIATION

AI APPLICATIONS-WEST

HCOWA ASSOCIATION

2025 ANNUAL WEST AFRICAN HEALTHCARE COMMUNITY ASSOCIATION EVENT SCHEDULE

No.	Event Date	Event Theme
1.	January	Promoting Regional Integration Of AI In Healthcare To Enhance Service Delivery
2.	February	Seminar on AI Diagnosis and Treatment Deployment Framework and Application Standards
3.	March	AI Diagnosis and Treatment: A Multilateral Symposium on IVD and Smart Diagnostics
4.	March	AI Diagnosis and Treatment: A Multilateral Symposium on Medical Imaging and Smart Diagnosis
5.	April	Al Diagnosis and Treatment: Seminar on the Development and Applied Medicine of Smart Chinese Medicine
6.	April	AI CDC - Seminar on National Intelligent CDC Deployment Framework and Application Standards
7.	May	AI Supply - Seminar on the Deployment Framework and Application Standards of Medical Supply Systems for Medicines, Consumables, Reagents, etc
8.	May	AI Applications — West African Hospital Needs Exchange Meeting
9.	June	West Africa Medical Mission First Study and Exchange Activities-Cheng-du Station (Tentative)

No.	Event Date	Event Theme
10.	June	West Africa Medical Delegation Preliminary Investigation and Exchange Activities-Changsha Station (Tentative) China-Africa Economic and Trade Forum - Medical Cooperation Forum
11.	July	West Africa Medical Mission Preliminary Investigation and Exchange Activities-Jilin Station (Tentative)
12.	July	The 2025 China-West Africa Medical Expo will be an online warm-up exchange meeting for enterprises and hospitals
13.	August	China-West Africa Medical Expo & AI Health In-depth Application Summit
14.	August	2025 West African Government Summit on Centralized Procurement and Project Cooperation
15.	August	The first batch of AI diagnosis and treatment pilot hospital experience exchange meeting and smart medical cooperation summit
16.	September	West African FDA Joint Access Symposium
17	October	Open Seminar on HeFRAAI Standards of Care for West African Countries
18	November	The annual summit of the Ministry of Health of West African countries on the development of artificial intelligence and health

HCOWA
SUMMIT AND EXPO

www.c-amse.com

EXHIBIT AT WEST AFRICA'S BIGGEST MEDICAL EXPO!

2025 CHINA–WEST AFRICA MEDICAL & HEALTH INDUSTRY EXPO + AI DIAGNOSIS & PROJECT COOPERATION SUMMIT

2025中国—西非 医疗与健康产业博览会
暨人工智能诊断与项目合作峰会

Accra International Conference Centre (AICC)

20TH – 22ND AUG 2025

- ✓ Meet investors.
- ✓ Connect with buyers.
- ✓ Partner with hospitals, distributors & decision-makers.
- ✓ Showcase your products to the entire region – and beyond!

A gathering of Manufacturers,Traders & Innovators from China, West Africa, and across the globe.

Booths are going fast! Reserve yours today.

+233 53 103 7131
+233 53 103 5868

summit@hcowa.com
prince@hcowa.com

500+ Hospitals/Clinic

1000+ Merchants

5000+ Manufacturers

5000+ Doctors

20,000+ Medical Practitioners

hcowaassociation

BECOME A MEMBER OF OUR ASSOCIATION TODAY!

KEY BENEFITS

- Study Visits and Exchange Opportunities
- Academic Exchanges and Training
- Event Participation Facility Support
- Policy Advocacy
- Magazine Partnership
- AI Treatment Department and National Disease Control System

TOGETHER, WE CAN ADVANCE HEALTHCARE

HCOWA ASSOCIATION | (+233) 53 103 7131 | association@hcowa.com | www.hcowaa.com

OUR PARTNERS

- GHANA NATIONAL CHAMBER OF PHARMACY
- PHARMACY COUNCIL OF GHANA
- L'ASSOCIATION NATIONALE DES INFIRMIERS ET INFIRMIÈRES DE LA CÔTE D'IVOIRE
- PRIVATEHEALT FACILITIES ASSOCIATION OF GHANA
- FEDERATION OF AFRICA MEDICAL EQUIPMENT, DISPOSABLE AND DEVICES MANUFACTURERS AND SUPPLIERS
- L'ASSOCIATION NATIONALE DES INFIRMIERS ET INFIRMIÈRES DU TOGO
- GHANA DIABETES ASSOCIATION
- GHANA PUBLIC HEALTH ASSOCIATION
- NIGERIA SOCIETY OF PHYSIOTHERAPY
- ALLIED HEALTH PROFESSIONS COUNCIL
- GHANA ASSOCIATION OF MEDICAL HERBALISTS
- KANTANKA HERBA PHARMAC AND RESEARCH CENTRE
- NATURAL HEALTH PROFESSIONALS-FEDERATION OF GHANA (NAHPFEG)
- TRADITIONAL MEDICINE PRACTICE COUNCIL (TMPC)
- GAMLS Ghana Association Of Medical Laboratory Scientists
- COMMUNITY PRACTICE PHARMACISTS ASSOCIATION

HCOWA
ASSOCIATION

(+233) 53 103 7131
association@hcowa.com
www.hcowaa.com
hcowaassociation