









PROF STANLEY O. KHAINGA

Chairman
Kenya Medical Practitioners and
Dentists Council







USE OF TECHNOLOGY & INNOVATION IN STRENGTHENING GOVERNANCE AND REGULATION

HOW DO WE BECOME SMART REGULATORS

New Technologies in Health Regulation

Electronic systems in health regulation Registration systems and Processes

Presentation Outline

- Introduction of Technology in Healthcare
 - Technologies in healthcare
 - (8) Healthcare Regulation and Governance
 - System interoperability
 - Interoperability Standards
 - (Challenges to technology solutions in healthcare
- Registrations Systems and Processes- KMPDC Perspective







1. Introduction of Technology in Healthcare



- The healthcare sector has seen continued advancements in technology.
 - Revolutionizing the way medical services are delivered
 - Improved patient outcomes
 - Improved research and collaboration
 - enhanced operational efficiency







ii) Technologies in healthcare

1. Electronic Medical Records - systems digitize patient health records:

- a) Improve access by healthcare providers
- b) Increase collaboration across departments and hospitals
- c) Improve coordination of patient care
- d) Reduce clinical errors,
- e) Facilitate data-driven decision-making.
- f) Integrate with other technologies such as AI has lead to advanced analytics

2. Blockchain in Healthcare:

- a) Ensures secure, transparent, and tamper-proof health data sharing,
- b) Streamlined supply chain management
- c) Enhanced clinical trials.









ii) Technologies in healthcare

3. Artificial Intelligence (AI) aids in:

- a) diagnosis
- b) personalized treatment plans,
- c) drug discovery
- d) Ensuring accurate and predictive analytics

4. Remote patient monitoring (RPM) -

- a) A popular trend in modern healthcare software development,
- b) Offers continuous monitoring of patient's health
- c) Ensures data is directly sent to healthcare providers.

Contd.







Technologies in healthcare

5. Wearable technology

- a) heart monitors
- b) Provide clinicians with more ways to evaluate the well-being of their patients

6. Telemedicine

- •Provides more ways of patients to communicate with healthcare provides.
- 7. Virtual and augmented reality using headsets and software assist clinicians envisage the outcome
- 8. Smart pills
 - a) function as pharmaceuticals
 - b) offer care providers valuable insights into patient health
- **9. 3D bioprinting –** enable clinicians perform more and accurate reconstruction for organs such as ears, corneas, bones, and skin are undergoing trials for 3D bioprinting.







iii) Healthcare Regulation and Governance

There are various regulations and policy documents

Statutes

- 1. Constitution of Kenya, 2010
- 2. Digital Health Act, 2023
- 3. Health Act, 2017
- Data Protection Act, 2019
- 5. The Computer Misuse and Cybercrimes Act of 2018

Policy Documents

- 1. AMCOA Protocol on Technology
- 2. Kenya Universal Health Coverage Policy 2020 2030
- 3. Kenya Standards and Guidelines for m-Health Systems (2017)
- 4. Kenya Health Information Systems Interoperability Framework
- 5. Kenya National eHealth Policy 2016-2030
- 6. General Data Protection Regulation (GDPR)







iv) System interoperability

- a) Various systems in the technology ecosystem must be interoperable.
- b) Developers of solutions provide Application Programming Interfaces (APIs) that define how they interact with other systems e.g.:
 - Health Workforce Registry
 - Client Registry
 - Community Health Information System (CHIS)
 - District Health Information System (DHIS2)
 - Laboratory Information System (LIS)
 - Logistics Management Information System (LMIS)
 - Pharmaceutical Information System (PIS)
 - Electronic Medical Records (EMR)
 - Electronic Health Records (EHR)
 - Enterprise Resource Planning (ERP) Systems







v) Interoperability Standards

These systems must be interoperable and be compatible with the internationally accepted standards, namely:

i. Clinical Messaging -

- system must conform to standards of conventional nomenclature.
- ii. Guides naming conventions
- ii. Clinical Terminology ensures conformity to international standards, including
 International Classification of Diseases and medication
- iii. Systemized Nomenclature of Medicine (SNOMED) for clinical data coding
 - a) Logical Observation Identifiers Names and Codes (LOINC) for laboratories
 - b) RxNorm for Pharmacies Contd.....







vi) Challenges to technology solutions in healthcare

- 1. Cost-Technology is expensive and thus requires huge budgetary allocation
- 2. Cybersecurity threats- need to secure both infrastructure and solutions to safeguard the critical health-related data and information
- 3. System Interoperability costs
- 4. Existing policies and statutes
- 5. Manual systems across various sectors e.g., Client registry, Insurance agencies, Training institutions













Registrations Systems and Processes:

KMPDC Registration and Licensing Perspective

Regulatory Human Resource Information System (rHRIS) – Manages the registration and licensing business process of our clients

For Practitioners

- 1. Training details
- 2. Internship tracking
- 3. Registration
- 4. Licensing tracking
- 5. Specialization and Sub-specialization details
- 6. Certificate of Status
- 7. Disciplinary cases

For Health Facilities

- Registration details
- 2. Licensing details
- 3. Disciplinary cases









ASSOCIATION OF MEDICAL COUNCILS OF AFRICA ANNUAL CAPACITY BUILDING WORKSHOP 2024 MARCH 18-20, 2024 LILONGWE, MALAWI

Online Services Portalosp.kmpdc.go.ke

It Manages the renewal processes for:

- 1. Medical practitioners
- 2. Dental practitioners
- 3. Health Facilities
- 4. Internship Management

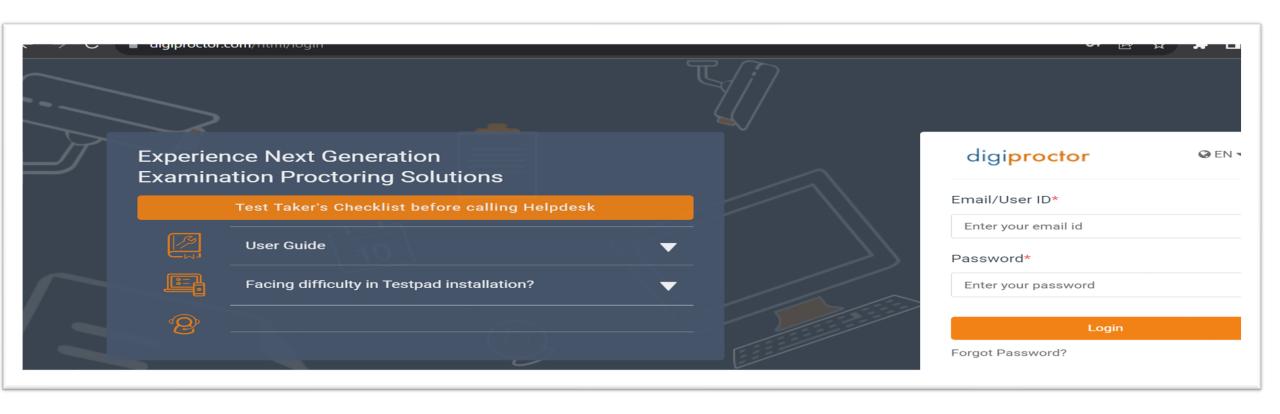








Digiproctor Examination System Online Examination for foreign trained doctors

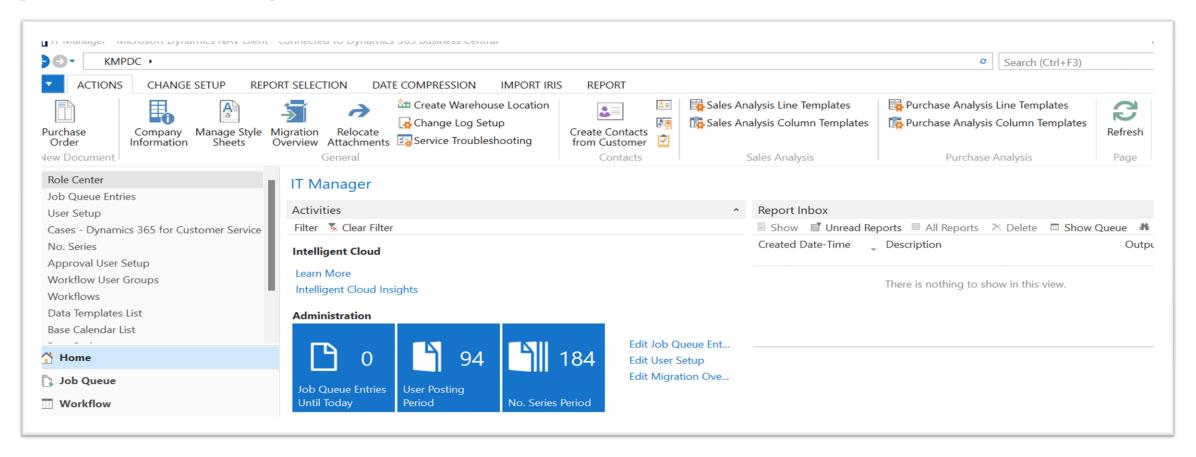








Enterprise Resource Planning (ERP)System – harmonizes the departmental operations









Regulatory Registration and Licensing statistics

http://kmpdc.go.ke/Registers/Dashboard/Dashboard.php

KMPDC DASHBOARD AS AT 12/03/2024							
LOCAL	PRAC	CTITIONERS					
REGISTRATION		LICENSURE					
Total Registered Local Practitioners	17040	Total Licenced Local Practitioners 100					
Medical	15481	Medical	9692				
Dental:	1559	Dental:	953				
Male_Medical.	9650	Male_Medical. 556					
Male_Dental.	852	Male_Dental. 491					
Female_Medical.	5783	Female_Medical. 41					
Female_Dental.	707	Female_Dental. 46					
FOREIG	N PRA	CTITIONERS					
REGISTRATION		LICENSURE					
Total Registered_Foreign_Practitioners	1426	Total Licenced_Foreign_Practitioners	689				
Medical	1330	Medical	631				
Dental:	95	Dental:	58				
Male_Medical.	909	Male_Medical.	434				
Male_Dental.	48	Male_Dental.	23				
Female_Medical.	421	Female_Medical.	197				
Female_Dental.	47	Female_Dental.	35				
COMMUNITY	ORAL	HEALTH OFFICERS					
REGISTRATION		LICENSURE					
Total Registered COHO	623	Total Licenced COHO	418				
Male	327	Male	231				
Female	296	Female	187				
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Realtime registers of our registered and licensed clients

Available on this link - https://kmpdc.go.ke /registers- practitioners-php

KENYA MEDICAL PRACTITIONERS AND DENTISTS COUNCIL REGISTERS

All medical and dental practitioners working in Kenya MUST be registered and licensed by the Kenya Medical Practitioners and Dentists Council. The same applies to all Health Institutions (public, private and mission hospitals, medical, dental centers & clinics, nursing and maternity homes and standalone funeral homes).

The Medical Council aims to ensure that Kenyans are being given quality healthcare by registered AND licensed practitioners and Health Facilities. You can therefore search our registers below to ensure the person treating you is a genuine medic, and that the health facility is duly registered and licensed to operate by the Council.

Please note:

ACTIVE means the medic or health institution has been licensed to operate within that calendar year. Feel free to CONTACT US if you have any questions.

REGISTERED PRACTITIONERS' REGISTERS

Local Practitioners' Registers

- · Registered Medical & Dental Practitioners' Master Register
- Local Licensed Practitioners' Master Register
- Medical and Dental Practitioners' General Practice Register
- · Medical and Dental Practitioners' Registrar Register
- Medical and Dental Practitioners' Senior Registrar Register
- · Medical and Dental Practitioners' Specialist Practice Register
- Community Oral Health Officers' Internship Register
- · Community Oral Health Officers' Practice Register
- · Medical and Dental Practitioners' Internship Register

Foreign Practitioners' Registers

- Licensed Temporary Foreign Medical and Dental Practitioners' Register
- Licensed Temporary Foreign Medical and Dental Students' Register

+ REGISTERED HEALTH FACILITIES' REGISTERS







Toll free ShortCode 20547 Verification

 Service to enable the members of the public search and confirm the authenticity of Practitioners (Medical and Dental Practitioners, Foreign doctors on Temporary License, Community Oral Health Officers), Health Facilities and Medical Camps they are seeking services from. These messages are sent as short message services (SMS) from any phone to Shortcode 20547.

To verify the status of a practitioner, send an SMS to 20547 with the following format:

P#Full Name of Practitioner or P#Registration number of the practitioner

For example:

P#John Doe or P#A0000

To verify the status of a health facility, send an SMS to 20547 with the following format:

H#Full Name of Facility or H#Registration number of the facility

For example:

H#Kenya Health Centre or H#000000

To verify the status of a medical camp, send an SMS to 20547 with the following format:

MC#license number of medical camp
For example:
MC#0000







Continous Professional Development (CPD)

- Continuing Professional Development (CPD) is defined as training that leads to broadening of knowledge and skills, and the enhancement of personal qualities resulting in continuous improvement in the performance of professional duties.
- The underlying principle of CPD is the lifelong learning expected of all Practitioners, from the point of entry into undergraduate training, throughout the professional continuum, until their point of exit from the profession.









Previous Continous Professional Development (CPD) Process – manual diaries

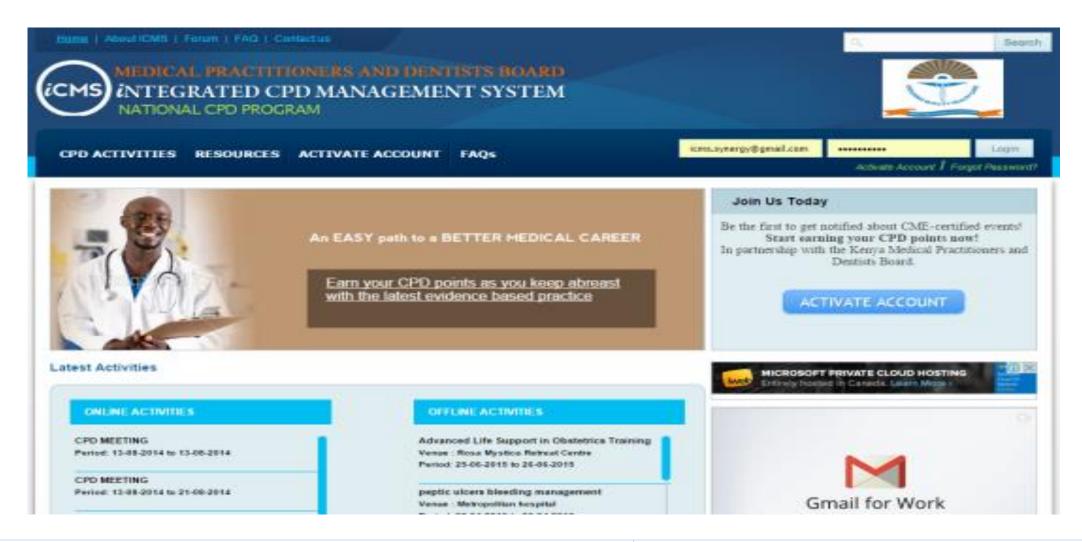
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Phase 1 of the Integrated CPD Management System

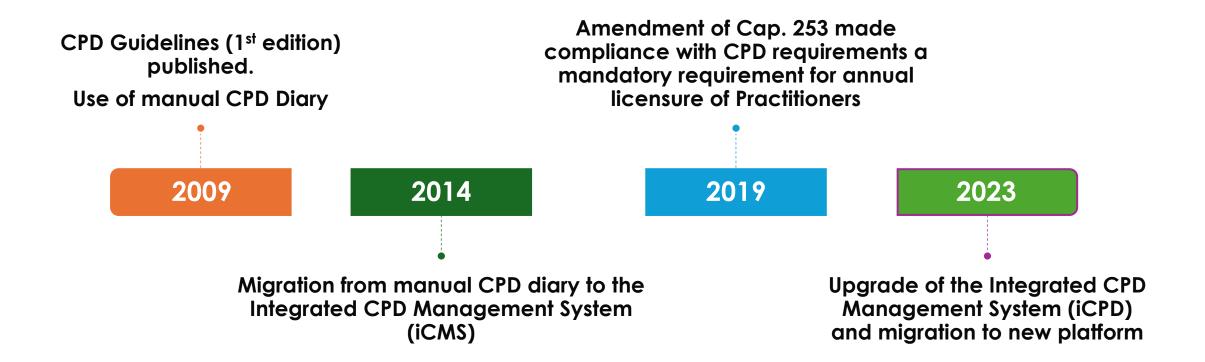








Phase 2 of the Integrated CPD Management System

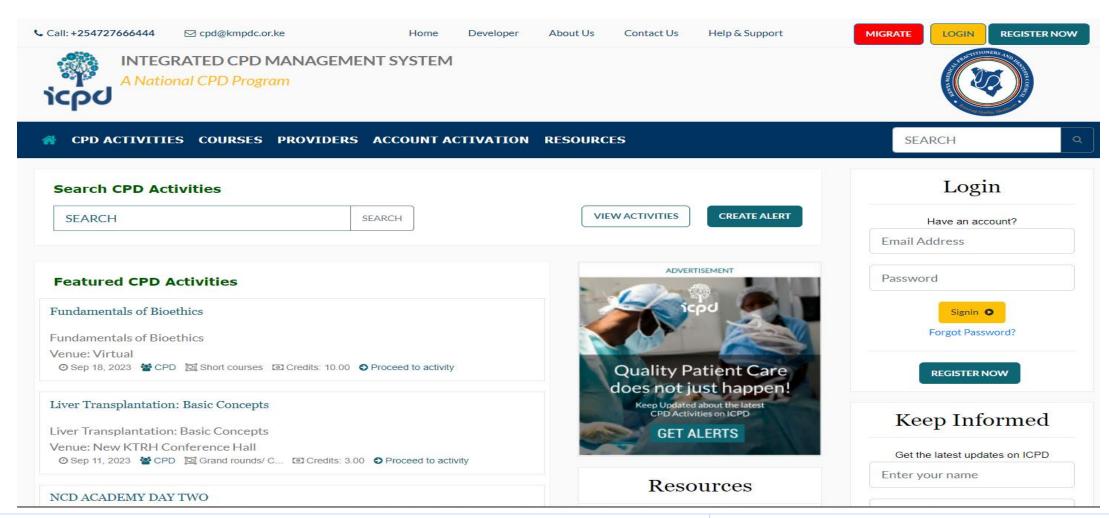








Current Integrated CPD Management System









Thank you very much Zikomo kwambiri Asante sana









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