

Non-Communicable Disease Integration

The Kenya Experience

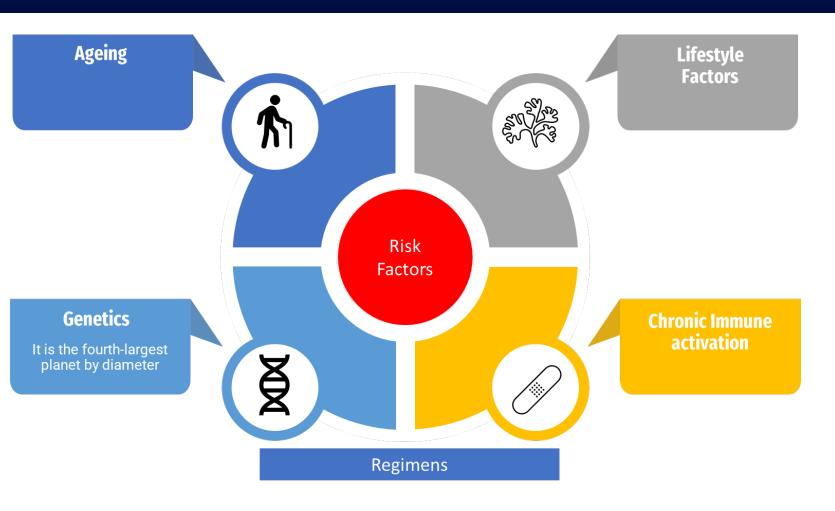
Dr Evelyn W. Ngugi CDC PEPFAR Kenya 17 April 2024

Integrating non-HIV Services into HIV Programs

April 15-18, 2024 | Nairobi, Kenya



NCD Burden in Kenya is significant: 4th 95



NCD burden among PLHIV

- Significant progress towards
 95-95-95 targets
- 16 -23.2% of people living with HIV also have hypertension*
- According to the AFRICOS** study, among the 50+,

Hypertension- 31%

Dysglycemia -15%

Obesity-12%

Renal insuffiency-5%

 This comorbidity burden will increase with improved longterm HIV control and aging PLHIV population.

Preliminary Data from the national data repository shows a 6% prevalence of hypertension - Documentation gaps noted



Models of HIV-NCD Integration Considerations

Facility and Community Availability of guidelines **Engagement Transformative Partnerships** to finance diagnostics and treatment, expansion of social insurance **Policy Financing** Availability of diagnostic and **HIV-NCD** Specialists, capacity building Commodi HRH treatment products to the of all providers ties integration patients who need them OSS (One Stop Shop) at HIV clinic, workflow between Service **Integration of NCD patient HMIS MOPC** and HIV Clinic, Digital **Delivery** management, metrics into **Health using** the HIV platform-EMR and teleconsultation, HRH data collection and rotation between clinics, reporting systems, **Hub and Spokes model Patient/Client Centric Models Interoperability Layer** between different facilities

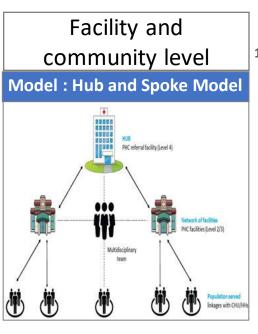
Opportunities for Integration: Primary Health Care (PHC) and UHC

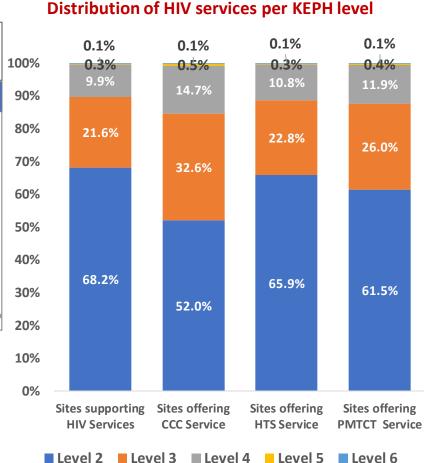
Kenya has adopted Universal Health Coverage model (UHC) to ensure:

• Affordable, Accessible, Acceptable, Available and **high-quality** health for all Kenyans.

Primary Health Care (PHC) approach will be a key driver to attain UHC

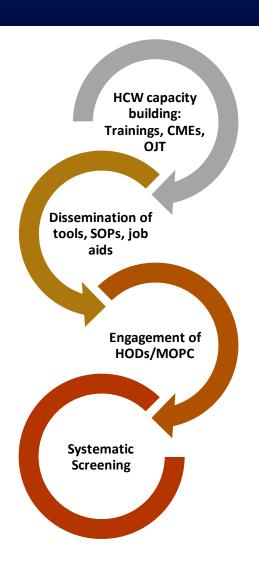
 Approach is the most efficient and costeffective way to organize a health system.







Package of Care



Screening & Mapping

- 1. Done on a rolling basis
- 2. Enquiry in triage and clinical rooms
- 3. Risk based criteria (Age, BMI/Weight trend, symptoms)

Patient Education

- 1. IEC materials
- 2. Partnership with existing programs (HHA, Novartis)
- 3. Health talks: Group and Individual (NCDs, HIV, NHIF)
- 4. Support groups in high volume facilities

Investigation & Treatment

- 1. Labs: Urinalysis, RBS, CBC, RFT, LFT, HbA1C, LIPIDS
- 2. Radiology: CXR, US, CT
- 3. Hybrid: One stop in the CCC; Link to MOPC
- 4. Consultant/TA review poorly controlled cases
- 5. Standard package of HIV Care + NCD Drugs

Follow Up 1. DSD-Intensive for uncontrolled, Multi-Month for controlled clients

Source: CHAK Stawisha

- 2. Synchronization of appointments
- 3. Enrolment to NHIF
- 4. MUC approached as a clinical function

Accelerating Sustainable, High-Quality, and Comprehensive HIV Prevention, Care and Treatment Services



MINISTRY OF HEALTH



DIABETES AND HYPERTENSION COMPREHENSIVE CARE

MONTHLY SUMMARY FORM - MOH 740

Integration of Non-Communicable Disease (NCD) with HIV services

Kenyatta National Hospital HIV Clinic - Level 6

CO-LOCATION

Both Services (HIV and NCD) offered at HIV Clinic Complex

SERVICE DELIVERY FLOW

PLHV screened for NCDS at the CCC including diabetes mellitus, hypertension and chronic kidney disease

DATA SYSTEMS

Need for completion of development of an NCD module on the Kenya Electronic Medical Record System Interoperability with other hospital systems



Non-PLHIVs with NCDs not integrated into this HIV clinic

HRH

Recipients of care with NCDs receive clinical consultations from clinical officers, a medical officer and physician for the complex cases

COST OF SERVICE

The consultation is offered without additional cost while it is charged in the medical outpatient clinic (MOPC)

All Client caters for costs of additional diagnostic evaluation and cost of treatment



Mission Hospital (FBO) - Kitui County



One Stop Shop

Clinical review, lifestyle modification counseling and medical management



Differentiated Care

For new and uncontrolled patients; less intense and MMD for controlled patients





ARV and NCD dispensing

Dispensing of both ARV and NCD medicines integrated



Partnerships

Healthy Hearts Africa project for access to subsidized antihypertensives and antidiabetics





Appointment Synchronization

ART and NCD review visits; integrated IIT tracking



Kitui County Referral Hospital for complicated cases



Documentation done in KeEMR, customized tools for Diabetic/Hypertension data capture



Kiambu County Referral Hospital - Level 5

1) Initial Model

HIV and MOPC clinics synchronization on same dates with PLHIV with NCDs visiting both clinics

2) HRH

Health Facility NCD focal person and clinician to review PLHIVs with DM and/or HTN jointly in the CCC at no extra cost HIV clinic clinician has been assisting in review of PLHIVs in MOPC/DOPC thus is well capacity built in hypertension and diabetes management.



4) Leadership

Facility leadership and focal SCHMT members engagement key in NCDs integration. Ownership and model to take up should be facility-led

5) Drugs and Commodities

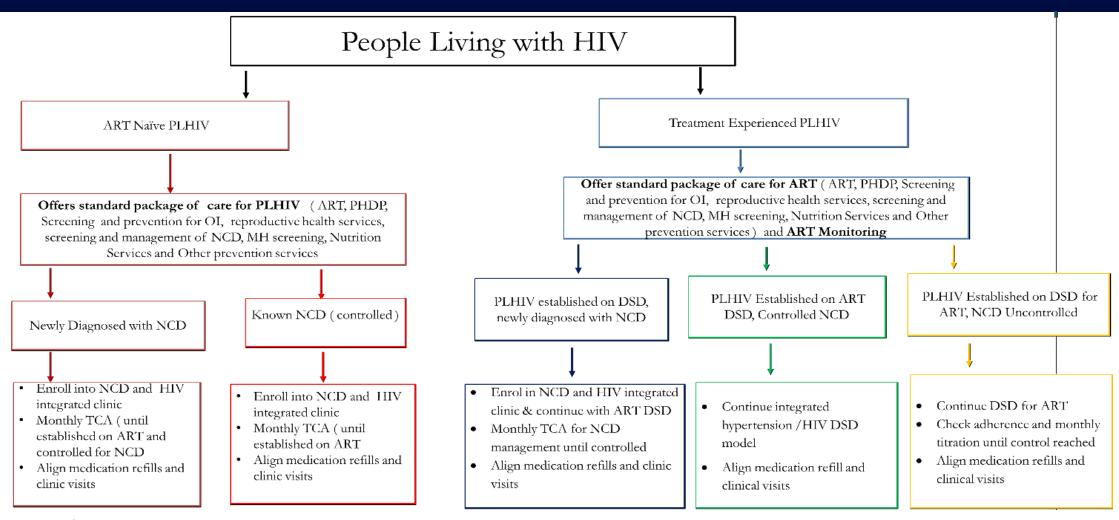
Facility has novel oral glucose lowering drugs such as DPP4 and SGLT2 inhibitors through negotiated rates to improve patient access

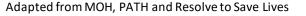
3) COSTS

Baseline RBS for all clients >18 years supported by Implementing Partner starting 31/03/23 (costs approx. Kshs 30 for an RBS).

Clients have been encouraged to take up NHIF as it covers drugs and consultation fee. Laboratory tests are paid for out of pocket

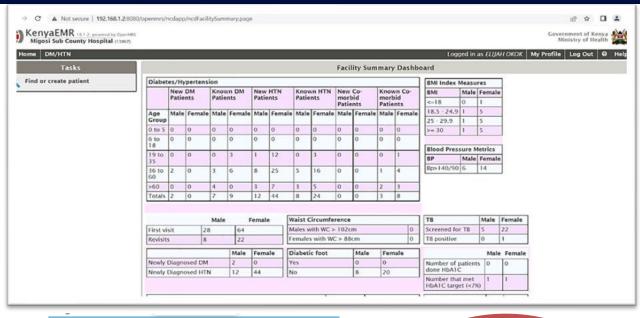
DSD Models for PLHIV with Non-Communicable Diseases







KenyaEMR Data Collection Collation - Migosi HC





HTN/Diabetes electronic module developed by MOH DNCD, UON HealthIT, and PATH.

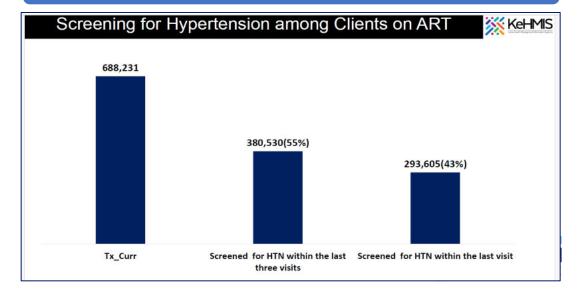
Integrated KenyaEMR version rolled out at Migosi HC.

Leveraged PEPFAR-procured EMR hardware infrastructure for HIV services.

Project supported NCD data migration from paper-based tools to EMR platform.

Includes capacity building for MOPC clinicians and HRIO.

Improved documentation and follow up of HIV/HTN ROC



CQUIN Integrating non-HIV Services into HIV Programs Meeting | April 15-18, 2024

Tracking Progress Central Kenya

County	No of sites	Partial Integration	% Partial	Full Integration	% Full
Kiambu	52	46	88%	6	12%
Muranga	39	36	92%	3	8%
Nyeri	21	18	86%	3	14%
Kirinyaga	24	17	71%	7	29%
Dhibiti	136	117	86%	19	14%



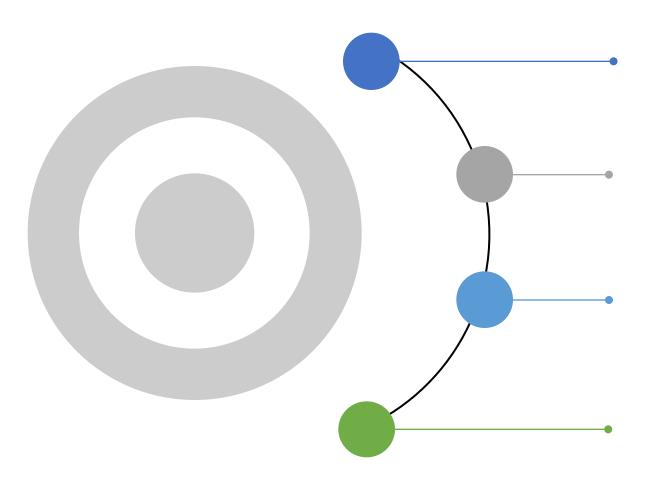
Key Recommendations - Synergistic Convergence

- Financing: SHIF cover for PLWH to cover NCD treatment
- NCD Screening and lab diagnostics
- IEC materials for patient education
- Develop referral mechanisms and specialist access
- Module in the Kenya EMR to capture NCD indicators for PLHIV

- Early detection, pivotal for effective management and prevention
- Only a fraction of those affected are actively engaged in care at any given timeaccess
- Preventive strategies play a crucial role in mitigating impact, morbidity and mortality
- While treatment incurs substantial costs, consequences of neglecting intervention are more devastating and costly



Summary Conclusion



Implementing Structured

Intergration

Large treatment portfolio and significant HTN burden

Burden

for hypertension is on the rise especially with an ageing HIV cohort

Varied Promising Integration Models

Need to be scaled up and reviewed through the lens of the health system and importantly measure outcomes

Cost

Cost allocation for diagnosis and treatment need to be factored

The Dual burden of Non-Communicable Diseases and HIV necessitates the integration of Healthcare systems to holistically address the needs of the population.







Thank You!

Better health with Integrated care

