

Integrating HIV and HTN services: Opportunities and Challenges

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CQUIN Integrating non-HIV services into HIV Programs Meeting

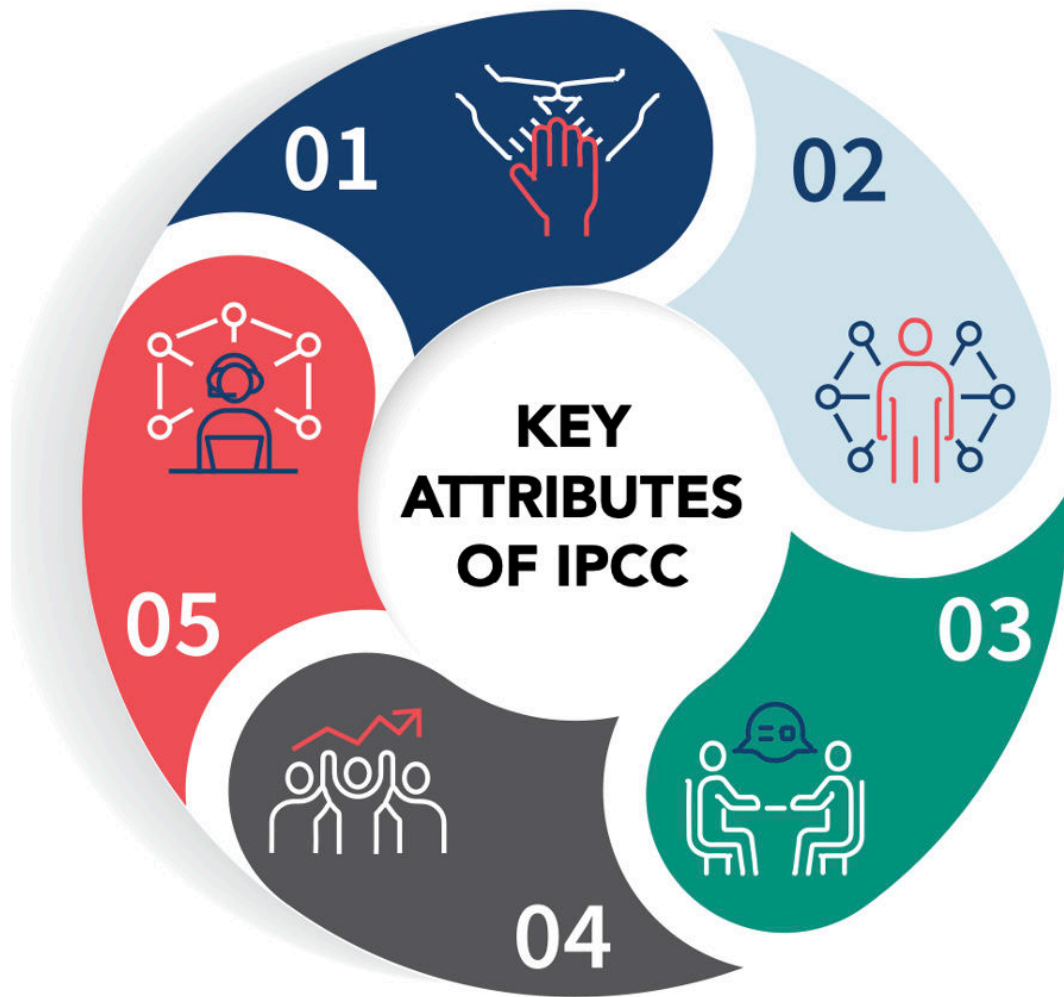
April 15 – 18, 2024 | Nairobi, Kenya



Key Points from Plenary Session

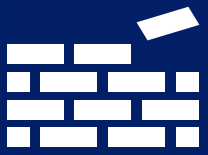
- **Integration is a means, not an end**
 - Our hypothesis is that integrated service delivery will help enhance the coverage and quality of health services
 - Integration is not a “one size fits all” approach – as with all DSD, services should be tailored to the needs and expectations of recipients of care and to national/local context
- **Defining integration is critical to shared understanding**
 - Important to differentiate integration of *services* from integration of *systems*
 - Essential to articulate how varied integration models are designed and implemented (one-stop shop vs. referrals vs. other approaches)
 - Necessary to track the extent to which integrated services are delivered (not just planned) and to track their impact on recipient of care satisfaction, health outcomes, and program efficiencies

Integrated, person-centered health services







1. Services must be comprehensive, holistic, and coordinated.
2. Services must prioritize individual convenience, making it as easy as possible for individuals to access the services they need and reducing disincentives to avoid needed health care.
3. Services must respect each individual's values and differences.
4. Services should empower clients and their households and communities to participate actively in their own care.
5. Service systems and sites should actively solicit clients' feedback and adapt service approaches in response.

Integrated, person-centered health services. Friends of the Global Fight, PATH, JSI October 2023



Integrating HTN services into DART models: the building blocks

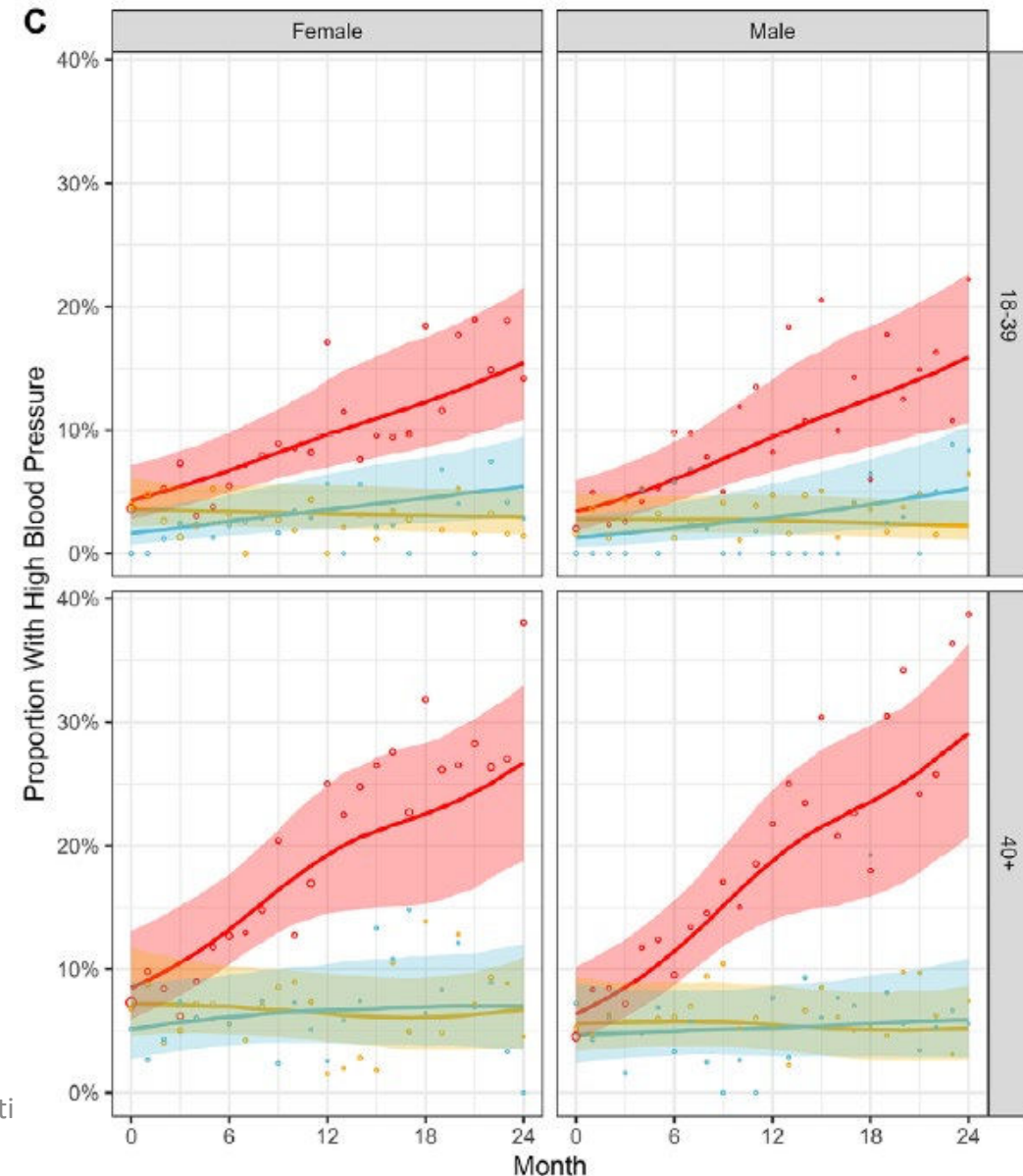
 WHEN	 WHERE
<p>Co-scheduling of HIV and HTN services (<i>e.g.</i>, both provided at the same time) At entry into a DSD model Monthly visits until HTN is controlled, then every 6 months</p>	<p>Co-location of HIV and HTN services (<i>e.g.</i>, both provided at the same site) HIV clinic / hospital Same Community location where ART is provided</p>
 WHO	 WHAT
<p>By the same clinician as ART, Doctor, Clinical Officer, Nurse, Community health worker, Client / peer/family member</p>	<p>Correct measurement of BP Correct selection of initial BP medication according to protocol Information, counselling, provision, and follow-up care</p>

Emergence of new evidence - 1

- Body weight and blood pressure changes on dolutegravir-, efavirenz- or atazanavir-based antiretroviral therapy in Zimbabwe: a longitudinal study. - Among PLHIV starting ART or switching to a new regimen, DTG-based ART was associated with larger weight gains and a substantial increase in the prevalence of high blood pressure. Routine weight and blood pressure measurement and interventions to lower blood pressure could benefit PLHIV on DTG-based ART. (Shamu T et al. *Journal of the International AIDS Society* 2024, 27:e26216.)

DTG EFV ATV/r

Shamu T et al. *Journal of the International AIDS Society* 2024, 27:e26216
<http://onlinelibrary.wiley.com/doi/10.1002/jia2.26216/full> | <https://doi.org/10.1002/jia2.26216>



Emergence of new evidence - 2

- Older adults bear a significant burden of non-communicable diseases, and some studies document a greater prevalence of co-morbidities in people living with HIV compared to those without HIV, including in African cohorts (*Godfrey C et al. Journal of the International AIDS Society 2022, 25(S4):e26002*)
- Many individuals with HIV have multiple co-morbidities with some of the most common being diabetes, hypertension, obesity and renal insufficiency
- Being on multiple drugs related to co-morbidities can create additional challenges for individuals living with HIV, including drug–drug interactions, adherence requirements for multiple medications and differing management requirements for chronic diseases (*Godfrey C et al. Journal of the International AIDS Society 2022, 25(S4):e26002*)

Why focus on integration of HIV and Hypertension?

- **Prevalence of HIV/HTN co-morbidity**
 - Countries in the CQUIN network face dual epidemics of HIV and non-communicable diseases, including HTN
 - As people living with HIV age on treatment, their risk of NCDs, including HTN, rises markedly
- **Programmatic feasibility**
 - Similarities between HTN and HIV treatment facilitate integrated program design
 - Multiple successful pilot projects have demonstrated proof of concept
- **Interest on the part of MOH, recipients of care, and donors**
 - PEPFAR highlighted the importance of HIV/HTN programs in COP23 planning
 - Global Fund 2023 guidance note encourages countries to align HIV and NCD programming
 - However, funding for HTN services is still limited

Why integrate HIV and hypertension care?

Adapted from Resolve to Save Lives



Management of HIV and hypertension both require daily medication and may have a similar schedule for clinical check-ups



Integration may reduce inefficiencies for health care providers and makes attending clinic visits, collecting prescriptions and adhering to treatment easier for recipients of care



Including hypertension care improves demand for HIV services, especially for harder-to-reach populations

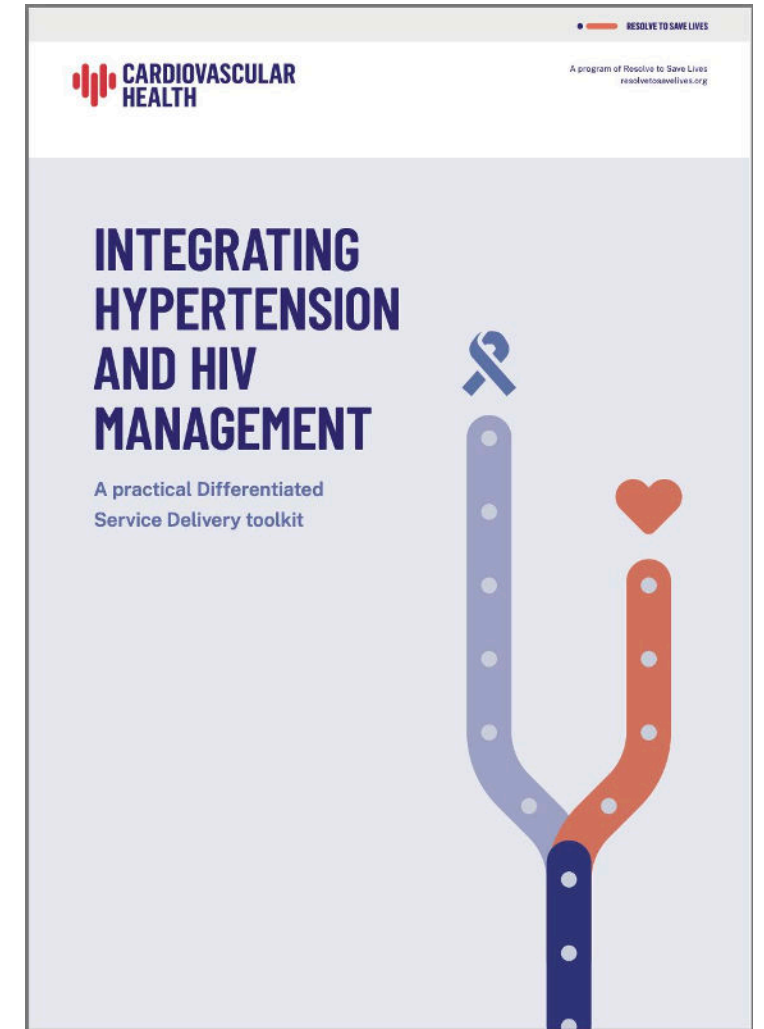
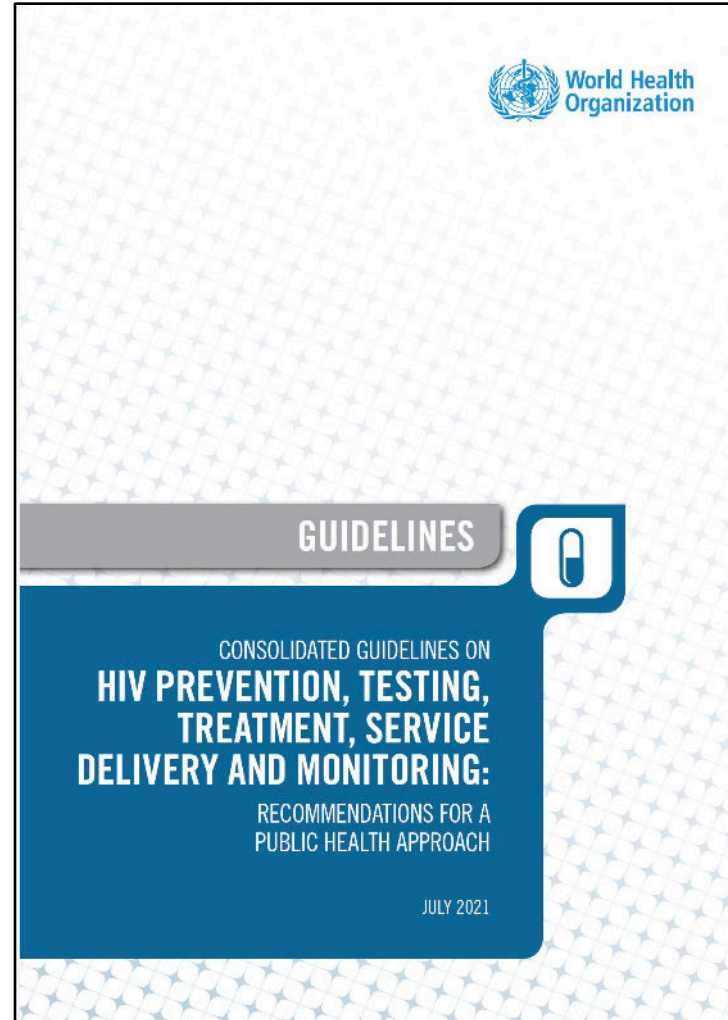
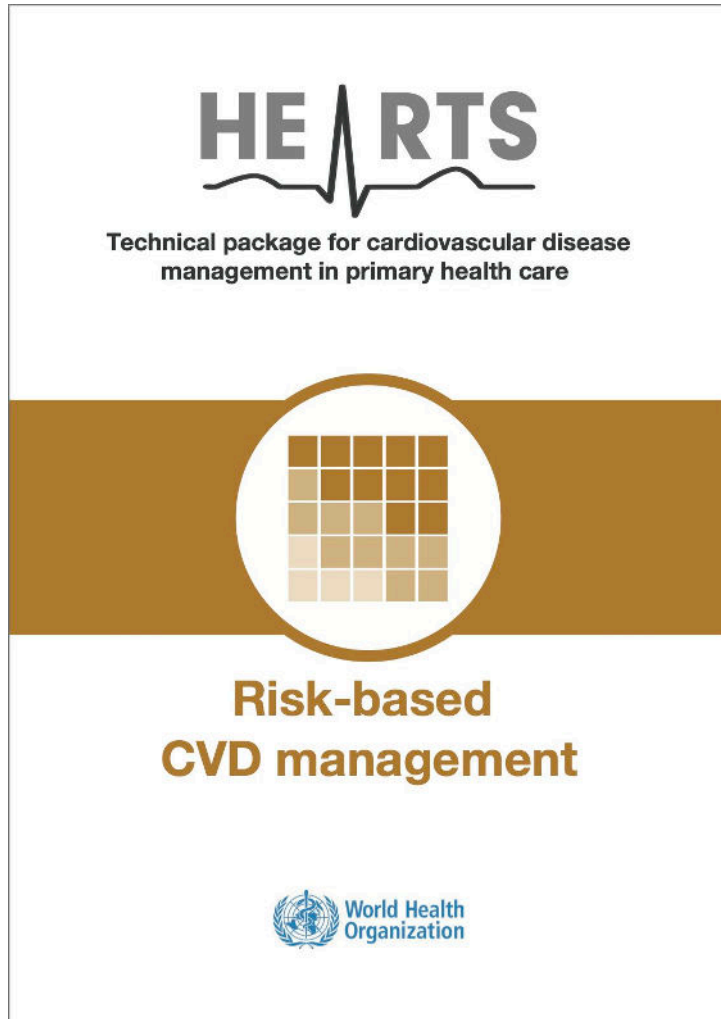


It's preferred by recipients of care and recommended by Ministries of Health, WHO, PEPFAR and the Global Fund

Feasibility – 1

- As chronic conditions, HIV and HTN share many commonalities, both from the individual and health system perspectives
- Examples include:
 - Need for screening and case-finding, including amongst asymptomatic people
 - Importance of linkage to treatment, adherence support, empowerment of recipients of care, and self-management
 - Use of daily medication and regular clinical and laboratory checkups
 - Need to deliver continuity services requires highly functional appointment systems, tailored medical records and M&E systems, ongoing access to laboratory and pharmacy services, and other approaches not required for acute or episodic care
- The public health approach so critical to HIV is also critical for HTN

Feasibility – 2



Feasibility – 3

“There are some health issues for which we lack knowledge or effective tools. Hypertension is not one of them.”

– Tedros Adhanom Ghebreyesus, WHO Director General, September 2023



Box 9: HIV and hypertension

The integration of HIV and hypertension care, based on the WHO HEARTS technical package, has demonstrated that high levels of HIV viral suppression can be maintained while simultaneously achieving high blood pressure control.

A HIV-hypertension integration pilot in Uganda resulted in control of 73% at 24 months, up from 5.1% at baseline, while maintaining an HIV viral load suppression rate of 98%. Ninety-six percent of the patients were also retained in care while receiving integrated multi-month dispensing for both hypertension and HIV medications within a differentiated service delivery model (155).



Feasibility – 4

Experience sharing within the CQUIN HIV/NCD community of practice over the past few years:

- Integrated HIV and HTN services in Kenya
- Scaling up integrated HIV and NCD services in Eswatini
- Out of pocket expenditures for NCD services by PLHIV in Cote d'Ivoire
- Integrating HIV and NCD services in Rwanda
- DSD for people with both HIV and NCDs in Uganda
- Integrated Chronic Care Clinics in Malawi
- Accelerating HIV and HTN services in Nigeria

HIV and HTN Comorbidity – 1

- HIV treatment scale-up has led to increased longevity for people living with HIV, who now have similar life expectancy as their HIV-negative peers
 - For example, 50% of people on ART supported by PEPFAR are > 40 years, and 22% are > 50 years
(Godfrey C et al. Journal of the International AIDS Society 2022, 25(S4):e26002)
- Approximately 25% of people living with HIV are estimated to have HTN – including nearly 50% of people living with HIV aged 50 and older
 - In sub-Saharan Africa, an estimated 6 million people with HIV also have HTN
 - Evidence suggests that < 25% are receiving HTN treatment
(Bigna et al. J Hypertens. 2020 Sep;38(9):1659-1668)

HIV and HTN Comorbidity – 3

Recent cross sectional and cohort studies from CQUIN member countries:

1. Uganda: HTN prevalence **24.4%** amongst adults with HIV (median age 45 years)
2. Uganda: HTN prevalence **27%** amongst adolescents and young people with HIV (13-25 years)
3. Burundi: HTN prevalence **17.4%** amongst adults with HIV (35-50 years)
4. South Africa: HTN prevalence **32%** amongst adults with HIV (median age 49 years)
5. Ethiopia: HTN prevalence **18.5%** amongst adults with HIV (mean age 40 years)
6. Tanzania: HTN prevalence **35%** amongst adults with HIV (mean age 43 years)

1. Byonanebye *et al.*, PLoS ONE 2023
2. Migisha *et al.*, Clin Hypertension 2023
3. Harimenshi *et al.*, Sci Rep 2022
4. Lebina *et al.*, South Afr J HIV Med 2023
5. Badacho *et al.*, Front Cardiovasc Med 2023
6. Sakita *et al.*, PLoS Global Public Health 2023

Evolving Donor Interest – PEPFAR COP23

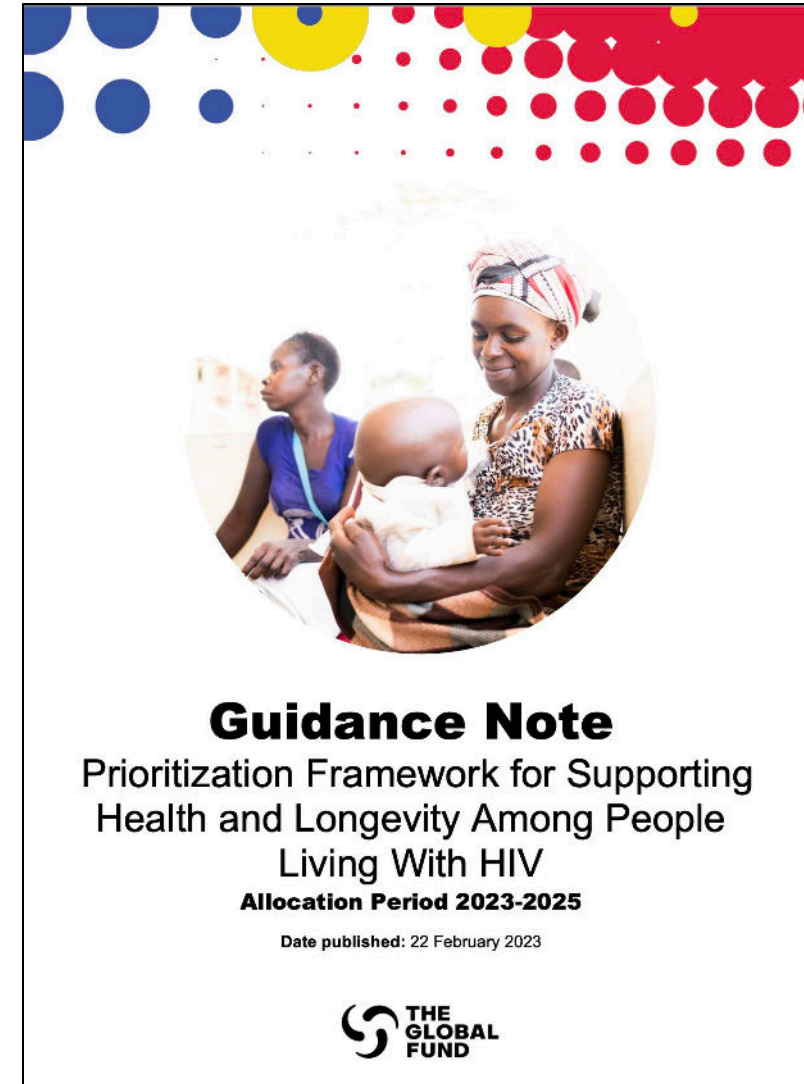
- “In alignment with PEPFAR’s strategic pillar of sustaining the response and recognition of the life-threatening unmet need of uncontrolled hypertension among adults living with HIV, countries where there is a high burden of HIV and PLHIVs with hypertension are encouraged to work with partners to implement proven solutions that advance person-centered care for hypertension control.
- It will be important for such programs to (1) screen for hypertension among all adult PLHIV at least annually; (2) implement standard hypertension treatment protocols in primary care; (3) ensure access to essential HTN medicines for PLHIV; and (4) track patient outcomes and program performance over time using an information system. Such integrated programs will further PEPFAR’s goal of utilizing its platform for broader public health programming.”

Evolving Donor Interest – Global Fund

Priority 5: Non-communicable diseases associated with ageing

Up to a quarter of all people with HIV are over age 50.²³ Associated with the aging cohort is a large and growing burden of NCDs. Where NCD integration is proposed, countries are encouraged to align services with epidemiological contexts and the WHO package of essential NCD disease interventions for primary health care,²⁴ focusing on cardiovascular and chronic respiratory diseases, diabetes, and early diagnosis of cancer.

- i. Early detection for NCDs is an HIV integration priority. Applicants are encouraged to integrate early detection for NCDs as part of integrated packages delivered within HIV platforms as an integration priority aligned with WHO consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring: recommendations for a public health approach.²
- ii. Primary and secondary prevention of NCDs: Applicants are encouraged to provide behavioral advice and support as a part of integrated packages delivered within HIV platforms, addressing modifiable disease risk factors including blood pressure, smoking, obesity, unhealthy diet and lack of physical activity, as recommended by the WHO guidance.²
- iii. Treatment: Integration of nationally available and procured treatment within HIV service delivery platforms is supported by the Global Fund. Where there is a strong investment case to address gaps in NCD management for people living with HIV, it will be considered on a case-by-case basis. Applicants are encouraged to align NCD follow-up visits with those for HIV care and integrate multimonth dispensing of NCD medicines with ART.



THE CQUIN LEARNING NETWORK

For HIV Service Delivery

APR 15

Integrating non-HIV Services into HIV Programs

Monday, April 15, 2024

Event type: Meeting

Monitoring & Evaluation of DSD

Quality Management

Differentiated TB/HIV Services

DSD for Advanced HIV Disease

DSD for Key and Priority Populations

Differentiated MCH Services

DSD for People with both HIV and NCDs

Differentiated HIV Testing Services

DSD for Displaced, Mobile, and Migrant Populations

Community Engagement in DSD Programs

<https://cquin.icap.columbia.edu/network-focus-areas/differentiated-service-delivery-for-hiv-and-non-communicable-diseases/>

Process

Support countries to share knowledge and advance DSD.

How

Network

Members in the learning network are committed to expanding and improving DSD for people living with HIV.

Countries

Focus Areas

Focus areas change from year to year, and are defined by member countries as they express interest in launching new communities



DSD for People with both HIV and NCDs

- The CQUIN NCD Community of Practice was launched in March 2021
- Primary objectives include:
 - Identifying priority gaps and challenges related to incorporating NCD screening, prevention and treatment services into HIV programs.
 - Exchanging relevant best practices and resources.
 - Working together to co-create needed frameworks, tools and resources.

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

Community of Practice Goals and Objectives

- The goal of the CoP is to contribute towards the implementation and scale up of integrated HIV/NCD services by facilitating the exchange of best practices, tools and models of care, identifying opportunities to co-create resources, and promoting ongoing cross-country learning
- Specific activities:
 - Showcase models of integrated HIV/NCD service delivery
 - Review key lessons learned, shared challenges and opportunities
 - Highlight available resources / materials to share
 - Identify joint learning needs and activities for the group



HIV Learning Network
The CQUIN Project for Differentiated Service Delivery

CQUIN NCDs Community of Practice: Terms of Reference

I) Background

The last decade has witnessed an unprecedented growth in HIV care and treatment programs globally. The scale up of antiretroviral therapy (ART) for people living with HIV (PLHIV) has been associated with markedly decreased morbidity and mortality, and an aging cohort of PLHIV on treatment. Over the same period, non-communicable diseases (NCDs) and associated deaths have risen steadily, including amongst PLHIV. From the perspective of health systems, HIV and NCD programs have many commonalities: promotion of healthy behaviors, long-term adherence to recommended treatment, regular monitoring of treatment outcomes, and active involvement of recipients of care in treatment and self-management. From the perspective of individuals with both HIV and NCDs, integrated service delivery is more person-centered, efficient and effective.

Priorities for NCD/HIV integration include:

- Careful prioritization of NCDs.
- Use of evidence-based algorithmic approaches that can be delivered by non-physician clinicians.
- Inclusion of primary and secondary prevention at every step (e.g., tobacco cessation).
- Prioritization of point-of-care diagnostics to enhance coverage.
- Empowerment of recipients of care for self-management.
- Use of a cascade approach for monitoring and evaluation of programs to ensure that coverage and quality are achieved for both HIV and NCDs.

In 2017, ICAP at Columbia University launched the HIV Coverage, Quality and Impact Network (CQUIN) with the support of the Bill & Melinda Gates Foundation. CQUIN is a learning network designed to accelerate scale-up of differentiated service delivery (DSD) by fostering joint learning, south-to-south exchange, and targeted technical assistance for its 21 member countries. Since CQUIN's inception, participants have identified the need for person-centered, effective and efficient services for people living with both HIV and NCDs. In response, CQUIN is launching the Differentiated HIV/NCDs Community of Practice (CoP) to facilitate cross-learning and collaboration amongst CQUIN network countries to accelerate the scale-up of integrated services for PLHIV with NCDs.

II) Goals and Objectives

The goal of the CoP is to contribute towards the implementation and scale up of integrated HIV/NCD services by facilitating the exchange of best practices, tools and models of care, identifying opportunities to co-create resources, and promoting ongoing cross-country learning.

The primary objectives of the group will include:

- Identifying priority gaps and challenges related to incorporating NCD screening, prevention and treatment services into HIV programs.
- Exchanging relevant best practices and resources.
- Working together to co-create needed frameworks, tools and resources.

Community of Practice Membership

- Country teams led by Ministries of Health, opt-in to communities of practice each year
- Country-level participants include MOH, recipients of care (national networks of PLHIV), PEPFAR, implementing partners and others
- Global partners include WHO, UNAIDS, PEPFAR, IAS, NCD Alliance among others

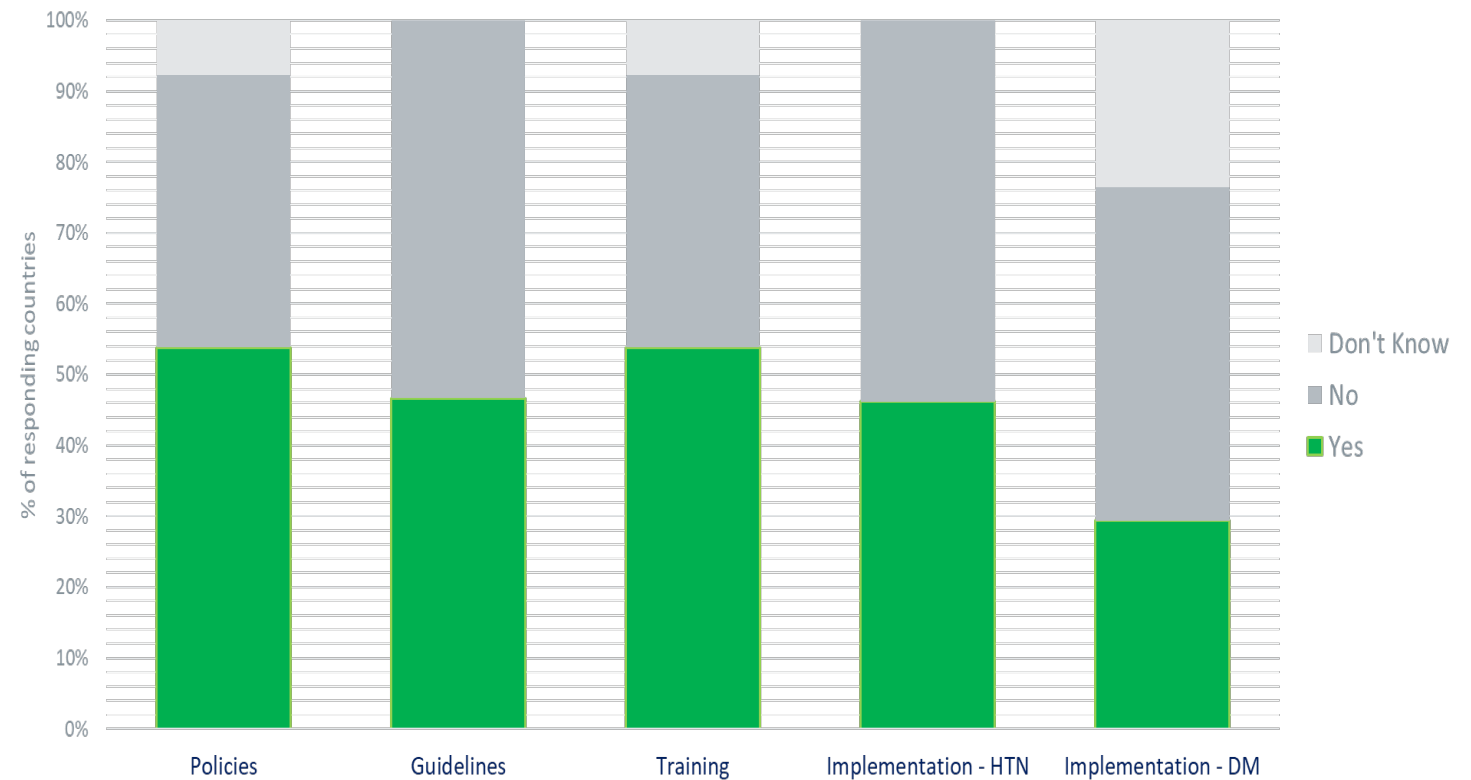
Countries that participated in the past - 16			Countries that have not yet confirm their membership - 5
 CAMEROON	 MOZAMBIQUE	 MALAWI	 BURUNDI
 CÔTE D'IVOIRE	 NIGERIA	 ZIMBABWE	 LESOTHO
 DRC	 RWANDA		 LIBERIA
 ESWATINI	 SENEGAL		 SIERRA LEONE
 ETHIOPIA	 SOUTH AFRICA		 ZAMBIA
 GHANA	 TANZANIA		
 KENYA	 UGANDA		

CQUIN HIV-NCD CoP Needs Assessment Survey, March 2021

Methods

- 13-question survey developed and piloted
- Programmed in Qualtrics (in English and French)
- Circulated to all 21 CQUIN member countries in February 2021
- Responses received from 14 country teams
 - Burundi, Cote d'Ivoire, Eswatini, Ghana, Kenya, Liberia, Mozambique, Nigeria, Senegal, Sierra Leone, South Africa, Uganda, Zimbabwe
- Analyzed and shared in late March 2021

Situational Analysis “snapshot”



In 2023, CQUIN added a HIV/HTN domain to the treatment CMM

- 14/21 countries had policies and/or guidelines recommending HIV/HTN integration
- 12/21 countries recommended co-scheduled, co-located HIV/HTN services for people established on treatment
- 0/21 countries had data to describe the proportion of people in less-intensive DART models who receive the minimum package of HTN services
- 0/21 countries had targets for the proportion of people in less-intensive DART models receiving a minimum package of HTN services

CQUIN self-staging results

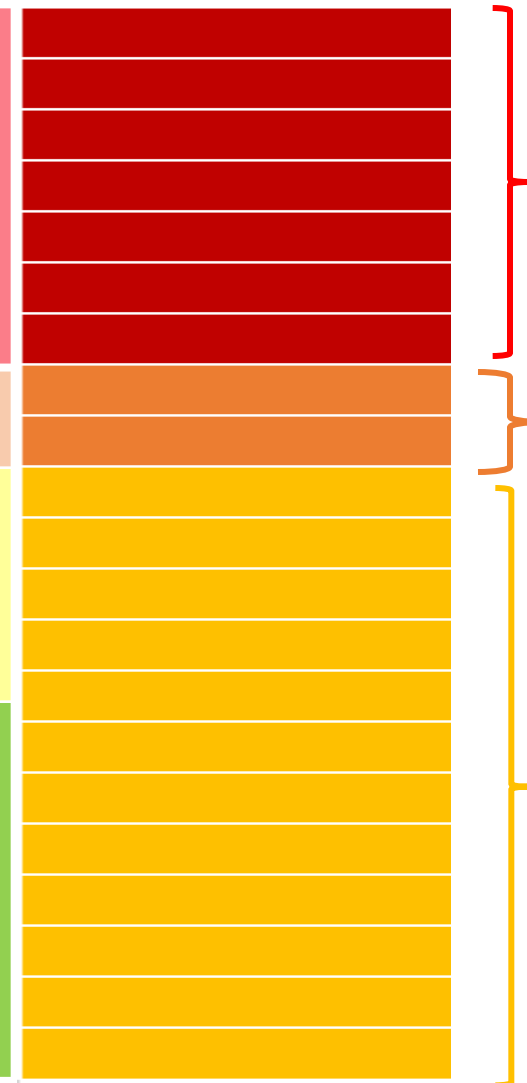
7/21 countries staged themselves as being in the red (least mature) stage:

2 countries described themselves as in the orange stage

12 countries described themselves as in the yellow stage:

No countries achieved **light green** or **dark green** staging, which require:

- National M&E systems can report the proportion of people in less-intensive DART models who receive the minimum package of HTN services
- There are national coverage targets for the above
- The country is achieving at least 50% (light green) or 75% (dark green) of these coverage targets using data from the past 12 months

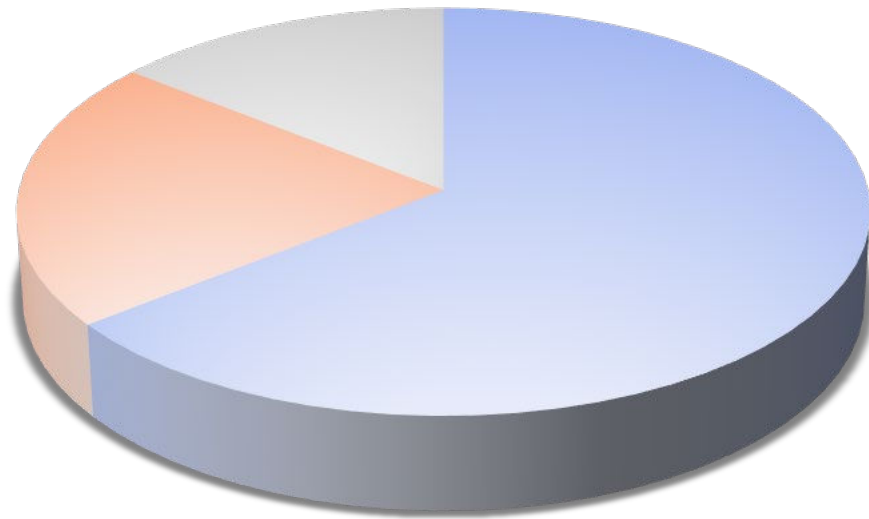


Challenges

- Broad interest and relatively high levels of policy support for HIV/HTN integration but implementation is limited to pilot projects in most countries due to lack of HTN funding
- Limited coordination between HIV and NCD programs due to funding and administrative silos
- Lack of training and detailed SOPs to support implementation of integrated HIV/HTN services
- Lack of data on HTN service delivery for people living with HIV
- **Limited (or no) funding for HTN services, commodities, or medication**

CQUIN NCD CoP 2024 Activities

CQUIN HIV/NCD CoP Activities from 2021 to 2024



■ CoP Meeting ■ Country to Country call ■ CQUIN Webinar

- Community of Practice quarterly meetings

- June 25, 2024
- September 17, 2024
- November 12, 2024

- CQUIN Webinar - HTN

- July 2024

- Targeted TA to countries

Aimed at supporting 30% of countries completing the CQUIN differentiated treatment CMM to improve their score on the HTN domain and/or reached the highest (dark green) level of maturity – Prioritize supporting the 7 countries to advance from red to orange.

Next Steps and Plans for 2024

- Exchange of best practices, case studies, resources and tools
 - Quarterly COP meetings (virtual) focused on priority topics
 - Country-to-country exchange – virtual and possibly in-person
 - Sharing of successful Global Fund ‘business case’ documents for HIV/NCD services
- Engagement of recipients of care, including education, empowerment, demand generation (“nothing about us without us”)

Acknowledgements

Helen Bygrave, IAS/MSF

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Andrew Moran, Resolve to Save Lives

CQUIN HIV/NCD community of practice

CQUIN Community Advocacy Network

Thank you!

