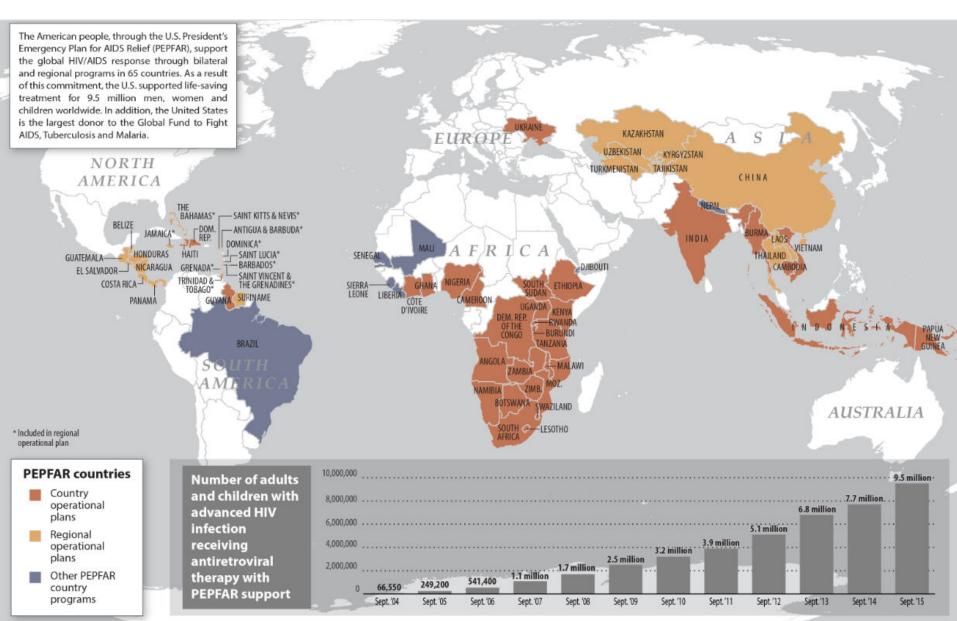
Center for Global Health Division of Global HIV and TB



Mapping Differentiated Service Delivery Scale Up in PEPFAR-Supported Countries



PEPFAR Currently Supports 35 National and Regional ART Programs Worldwide



Activities to Track DSD

- PEPFAR keeps tracks of implementation and outcomes of DSD in PEPFAR supported countries
- Monthly DSD calls since July 2015 with 12-18 countries participating at each call
- In-Country Technical Assistance on DSD
- South to South knowledge exchange; e.g. the DSD learning tour to Zambia with participation of CDC-staff from Kenya, Cote d'Ivoire, and Nigeria in September 2017
- Simple Surveys for updates on DSD implementation
- Technical support for development and implementation of DSD evaluations in Namibia, Kenya and Zambia

DSD Tracking Tool in PEPFAR Supported Countries

Summary of Progress in Test and Start and Differentiated Models of Care in 30 PEPFAR-Supported Countries with CDC provides Care and Treatment Assistance, as of April 2017

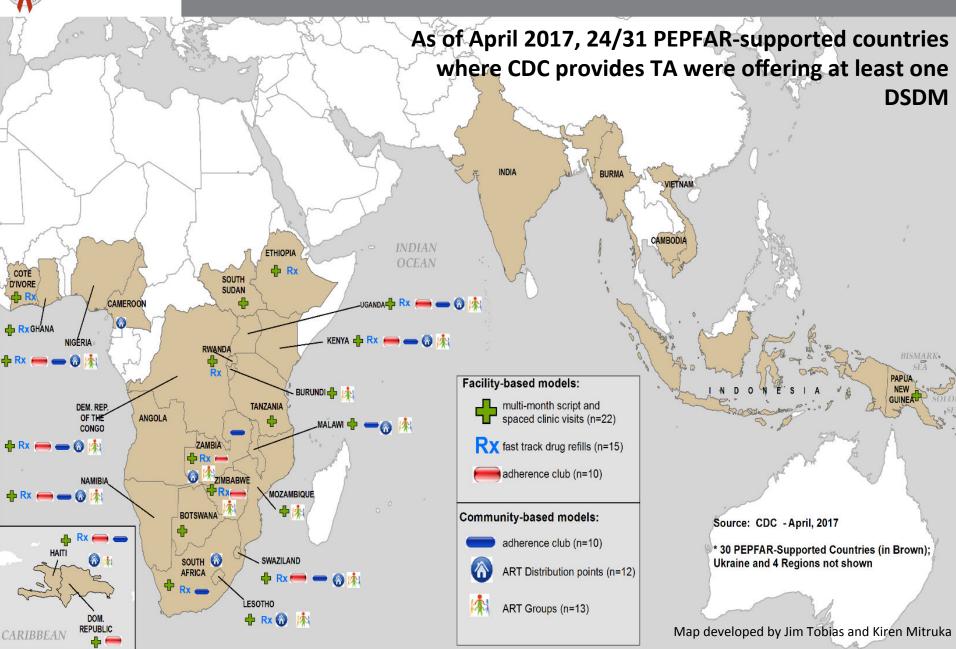
	Test and	Test and Start	Facility-b	ased servic	e delivery	models	Community-based service delivery models		
	Start policy adopted	policy being implemented nationally	Multi- month script	Spaced clinical visits	Fast track drug refills	Facility adherence clubs	Community Adherence club	Community ART Distribution points	Community ART Groups
Angola	No	Pilot/phased							
Botswana	×	×	x	×					
Burundi	x	×							
Burma	×	No							
Cameroon	×	×						×	
Cambodia	x	×							
Cote d'Ivoire	x	×	x	x	×				
Democratic Republic of Congo	×	×	×	×	×		×	×	×
Dominican Republic	No	No	Phased?	Phased?					
Ethiopia	x	×	x	x	×				
Ghana	x	×							
Haiti	x	×	x	x	×				
India	x	No							
Kenya	x	×	x	x	×				
Lesotho	×	×	x	×	×			x	x
Malawi	×	×	x		×	×	×	×	×
Mozambique	x	×	x	×					x
Namibia	×	Pilot/Phased	x	×	×	×	×	×	×
Nigeria	×	Pilot/Phased						×	
PNG	x	Starting							
Rwanda	x	×	x	×	×				
Swaziland	×	×	x	×	×	×	×	×	×
South Africa	x	×	x	x	×		x	x	
South Sudan	x	×	x	×					
Tanzania	x	×	x	×					

Uganda	x	Starting	x	x	×			×	x
Ukraine	x	Starting							
Vietnam	x	×	??	×					
Zambia	x	×	x	x	x	x	x	x	x
Zimbabwe	х	yes, phased	х	x	x	х			х

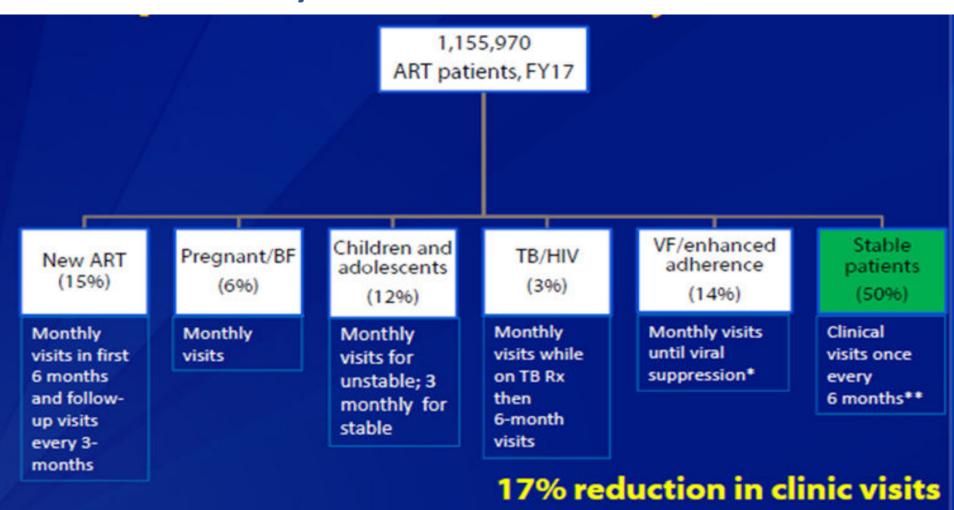
Source: Kiren Mitruka



Differentiated Models of Care in PEPFAR-Supported Countries *



Example: Multi-Month Prescription Schedules for Optimal Outcomes in Kenya in FY17



^{*67%} of non-suppressors, achieve VL<1000 after 3 months support

^{**} Viral load and patient willingness & adherence, considerations. ARV pick up every 3-months- community or facility

Example: Improved Retention with Longer Follow-up Intervals for Stable Patients in Zambia

- Retrospective analysis of stable PLHIV (N=217,448, >1 million visits from 2013-2015) seen at 65 ART sites
 - Stable: ART>180 days, CD4>200 x 6 months, no TB diagnosis in 6 months
- Extending clinic intervals at least up to 6 months was associated with improved retention in care
 - 70% received pharmacy refills every 3 months, ~9% every 6 months

Effect of Return Interval on Subsequent Retention									
	Missed Visit			Gaps in Medication			<u>LTFU</u>		
	<u>aOR</u>	95% CI	p-value	<u>aOR</u>	95% CI	p-value	<u>aOR</u>	95% CI	p-value
Appointment Interval:			\$4.5.			10			
<3 weeks	1.88	1.83-1.94	< 0.001	1.52	1.47-1.57	< 0.001	1.28	1.21-1.36	< 0.001
1 month	9	.0 (referenc	e)	1	.0 (reference	e)		1.0 (referenc	e)
2 months	0.83	0.82-0.4	< 0.001	0.92	0.90-0.93	< 0.001	0.95	0.92-0.97	< 0.001
3 months	0.53	0.52-0.54	< 0.001	0.68	0.67-0.69	< 0.001	0.92	0.90-0.95	< 0.001
4-5 months	0.39	0.36-0.43	< 0.001	0.62	0.57-0.68	< 0.001	0.64	0.55-0.74	< 0.001
6 months	0.23	0.21-0.26	<0.001	0.50	0.43-0.57	< 0.001	0.48	0.40-0.59	<0.001

Source: CROI 2017, Mody et al

Example: Community Drug Distribution Points in Uganda

Uganda Model (Oct-Dec 2017 Update)					
Context	Rural and urban				
Target group	Stable adult ART patients, excludes pregnant women, children and adolescents				
ART Refill	2 monthly, piloting 3 monthly				
Clinical assessment for patient	6 monthly				
Referral mechanism back to clinic	Self, by CASA's, and TASO service providers				
Number of patients	~80 000 patients as of September 2017 in 20 districts supported by TASO				
Patient uptake	About two thirds of patients supported by TASO				
Retention in care	98%				
Extended functions	Psychosocial support by Community ART Support Agents, community sensitization				
Resource needs	Linkage to nearby health facilities, M&E tools				

Source: TASO Uganda



Evample: Community - hacad ADT in Namihia

Litalliple. Collinating —based Art in Namibia
Okongo Fonbana Modol

Context

Target group

Clinical assessment for patient

Number of patients

Patient uptake

Retention in care

Viral load suppression

Extended functions

Resource needs

Referral mechanism back to clinic

ART Refill

LAdilipic.	Commu	iicy	buscu An	i III Idai	IIIDIG

Rural

ART

3 monthly

3 monthly

M&E tools

Extension Workers

Ranges from 86 -100%

84-100 % with most sites in the 90s

Agents, community sensitization

Rural settings, no consideration for CD4, viral load or duration on

Self, by Nurse providers, Community Health Assistants and Health

1505 out of 9271 (2794 Okongo; 6477 Eenhana) ART patients

About 16% of patients seen at Okongo and Eenhana Districts

Psychosocial support by peers; motivation; Community ART Support

Improved shelter for consultation; Linkage to nearby health facilities,

Example.	Community	-baseu Ani	

Example: Community-Based ART Delivery in Okongo

District, Namibia

~20 KM unpaved road to ART center

Basic structure built by the community in 2007 and improved at their own expense over time







Source: Kiren Mitruka

Example: Community-Based ART Delivery in Okongo District, Namibia

Typical outreach day:



Source: Kiren Mitruka

Examples of Community-based ART Models in Zambia

- CIDRZ is implementing 3 models of Differentiated
 Care alongside routine care
- Community-based ART distribution and Community Adherence Groups (CAGs)
 - CAGs for stable clients
 - CAGs for unstable clients
 - CAGs for adolescents
- Facility based Urban Adherence Groups (UAGs)
- ART dispensation through Health Posts

Example: Community –based ART in Zambia

Context

ART Refill

Target group

Number of patients

Patient uptake

Retention in care

Viral load suppression

Extended functions

Resource needs

Clinical assessment for patient

Referral mechanism back to clinic

Example:	Community -	-based ART	in Zambia

example:	Community	-pased	AKI	in Zambia	
			- 10		

Rural and Urban

3 monthly

6 monthly

Assistants

patients

99.6%

Stable patients on ART

Self, by Nurse providers, Community Health

Implemented in 14 sites: 1,043 groups with 5,980

18% of stable patients in sites of implementation

Psychosocial support by Community ART Support

Linkage to nearby health facilities, M&E tools

Agents, community sensitization



DSD Monitoring and Evaluation

Tools being developed at CDC HQ with considerations for enhanced monitoring:

- Provides generic considerations for enhanced monitoring of Test and Start and differentiated service delivery
- Can be used to frame discussions regarding decisions for Enhanced Monitoring
- Includes a set of indicators that can be modified to suit the context

CONSIDERATIONS FOR ENHANCED MONITORING OF TEST AND START AND DIFFERENTIATED SERVICE DELIVERY

Guidance for CDC country teams

October 2017

Key Areas for Monitoring

- Commodity availability
- □ Retention/adherence
- Quality assurance of rapid HIV testing and laboratory services
- Client satisfaction
- Impact on health system efficiency

Source: Leigh Tally and Sadna Patel

Example: DSD M&E in Rwanda

Indicator	Numerator	Denominator	Frequency	Data source
ROUTINE				
# stable patients on treatment in reporting period	# stable patients on ART in reporting period	# all PLHIV enrolled on ART in reporting period	Monthly	ART Register; EMR, Lab Register, NRL results
Rate of virologic suppression	# patients on ART in reporting period with VL<1,000 by treatment line/stability status	Total time of follow-up of patients by treatment line and stability status	Quarterly	Lab Register and VL failure monitoring register
Rate of drug resistance of patients on 2 nd line treatment	# patients on 2 nd line with genotypic drug resistance	Total time of follow-up of patients on 2 nd line treatment by stability status/duration on ART	Quarterly	Lab Register and VL failure monitoring register

ENHANCED	Numerator	Denominator	Frequency	Data source
1. Clinical indicators				
% stable patients enrolled in	# stable enrolled in stable	# eligible patients for stable	Quarterly	ART Register; EMR
Stable group.	group	group.		
% ART patients retained in	# ART patients retained in	# ART patients enrolled in stable	Quarterly	ART Register; EMR,
stable group after 6, 12, 18	stable group at 6, 12, 18 and	group at 6, 12, 18, or 24 months		
and 24 months	24 months	prior (i.e. at beginning cohort)		
% ART patients enrolled in	# ART patients enrolled in	#f ART patients enrolled in stable	Annual	ART Register; EMR,
stable group who experienced	stable group who	group with VL test results		Lab Register, NRL
treatment failure (VL >1000	experienced treatment	reported in the reporting period		results
copies /ml)*	failure			
%f ART patients enrolled in	# of ART patients enrolled in	# ART patients enrolled in stable	Quarterly	ART Register; EMR,
stable group who are adherent	stable group who are	group at the start of the reporting		
over 3, 6, 9 and 12 months	adherent over 3, 6, 9 and 12	period (i.e. beginning cohort)		
	months			

Source: Caniscious Musoni (CDC Rwanda) – DGHT Annual Meeting 2017

Indicators	Numerator	Denominator	Frequency	Data source
2. Commodities				
% facilities experiencing ARV stock out at any point in the reporting period	# facilities experiencing ARV stock out at any point in the reporting period	# of ARV facilities supported in the reporting period	Monthly	eLMIS Pharmacy stock cards
# facilities reporting expiration of any of the HIV core commodities in the reporting period	# facilities reporting expiration of any on HIV core commodities in reporting period. Disaggregate by type: medicines, lab reagents, HIV test kits	f # of facilities providing HIV Clinical services in the reporting period	Monthly	Pharmacy stock cards
Order delivery lead time which is a time between placing of an order of commodity and when its available for use at the health facility	# of commodity units ordered and/or delivered: 1) day an order was placed; 2) day ordered commodity (commodity type) was delivered on time.	Health Center – 2 weeks District Pharmacy – 3 weeks	Quarterly	Pharmacy Stock Card
Lead time (Turnaround time): MPPD to DPs, DPs to Health Facility	# days taken	# days recommended by MOH	Quarterly	ARTs/OIs HFs Report/Req form
Stock out rate	# products in stock out during the reporting period	# needed products in health facility in a reporting period	Quarterly	eLMIS, Stock Card
Order – fill:	# products ordered and received	# products ordered	Quarterly	ARTs/OIs HFs Report/Req form
Inventory accuracy rate	% stock out reported in the reporting period	% stock out verified in the reporting period.	Quarterly	
Indicators	Numerator	Denominator	Frequency	Data source
3. Costing indicators				
Case load per health staff	<u> </u>	# days the facility is open for	Quarterly	Self-report

Indicators	Numerator	Denominator	Frequency	Data source
3. Costing indicators				
Case load per health staff	# clinic visits/drug pickups/initiations/ tests	# days the facility is open for each consultation/ service during 3 months & # health staff involved in each category	Quarterly	Self-report
Average time spent per health staff per day	Recorded time spent on each task for the same cadre of staff	# staff in that cadre	Weekly	Self-report
Total time spent per facility per cadre per day	Total time spent on each task per day	# staff in each cadre	Weekly	Self-report

Experiences with Mapping DSD in PEPFAR-Supported Countries

- Country Teams are usually responsive to providing information as requested
- Still have limited country-based formal evaluations results for ART outcomes in sites where DSD is being implemented
- Due to multiplicity of implementing partners, difficult to collect granular data such as number of sites providing DSD at country level and type of model implemented at each site
- Will need to revise DSD tracking tool in order to collect granular site level data.

Acknowledgements

- Kiren Mitruka
- Jim Tobias
- Ishani Pathmanathan



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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.