

Delivering High-Quality DSD Services at Scale A CQUIN Learning Network Workshop

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PEPFAR DSD Program Quality Approach

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PEPFAR Adaptations to COVID-19

Separation of drug delivery from clinical care*

Reduction of burden at clinical sites and exposure to COVID, while allowing more attention to patients in need of clinical evaluation

Expanding the use of multi-month dispensing of ART (including PrEP)

DDD- Decentralized Drug Distribution

Minimize burden of treatment: coordinate timing of clinical appointments, drug pick-ups, and viral load monitoring



^{*} _

The WHO updated MMD eligibility criteria to be more inclusive

Summary – change in eligibility



	2016	2021		
Term	Stable	Established on ART		
Time on ART	12 months on ART	6 month on ART		
Inclusion of pregnant women	Pregnant women excluded	Pregnant women included		
Inclusion of children and adolescents	Children and adolescents included	Children and adolescents included		
Regimen	Second and third line not explicitly stated	Any ART line included		
Viral load / evidence of treatment success	Two consecutive viral loads <1000 copies/ml	At least one viral load 1000 copies/ml in last 6 months		

INCLUDES all populations established on ART:

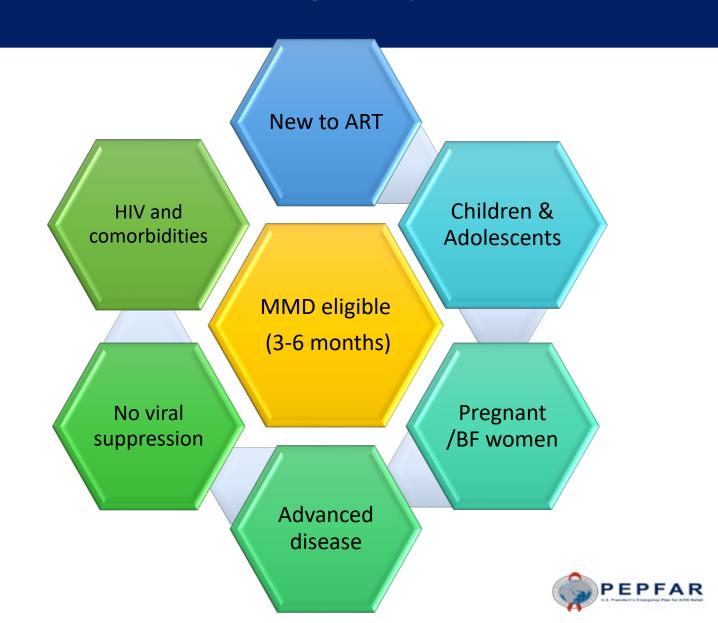
- Individuals receiving <u>second- and third-line</u> <u>regimens</u>
- PLHIV with <u>controlled</u> comorbidities
- Children and adolescents
- Pregnant and breastfeeding women
- Key populations



PEPFAR Policy changes to expand eligibility for MMD

Expanded MMD eligibility to:

- Children and adolescents
- Pregnant and breastfeeding women
- Individuals with advanced disease
- Those who have not yet achieved viral suppression or whose viral suppression is yet undetermined
- People with co-morbidities along with HIV infection
- Individuals initiating therapy and those reengaging in treatment

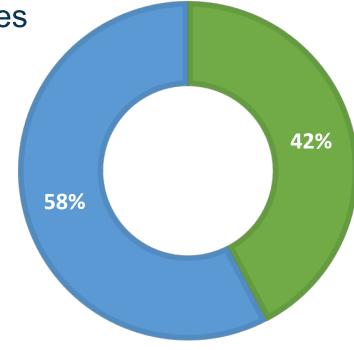


PEPFAR MMD policy changes scale up

PEPFAR Countries that changed MMD policy/implementation due to

COVID-19 (since March 2020). N=52 countries

30 countries changed MMD guidelines



■ No record of changing MMD policy

Changed policies and/or implementation...



How does PEPFAR monitors DSD implementation?

- 1. MER indicators
- 2. SIMS (Site Improvement through Monitoring System)
- 3. Patient experience: SIMS Patient Experience Dossier



PEPFAR (MER) INDICATORS measuring MMD

Indicator	Definition		
TX_CURR	Number of adults and children currently receiving antiretroviral therapy (ART)		
Disaggregate MMD	 <3 months of ARVs (not MMD) 3-5 months of ARVs dispensed 6 or more months of ARVs dispensed 		
TX_ML	Number of ART patients (who were on ART at the beginning of the quarterly reporting period or initiated treatment during the reporting period) and then had no clinical contact since their last expected contact (>28d)		
Disaggregate	Interruption in treatment (IIT) disaggregate to account for time on treatment when experienced IIT		
TX_RTT	Number of ART patients who experienced IIT during any previous reporting period, who successfully restarted ARVs within the reporting period and remained on treatment until the end of the reporting period.		
TX_PVLS	Percentage of ART patients with a suppressed viral load (VL) result (<1000 copies/ml) documented in the medical or laboratory records/laboratory information systems (LIS) within the past 12 months		

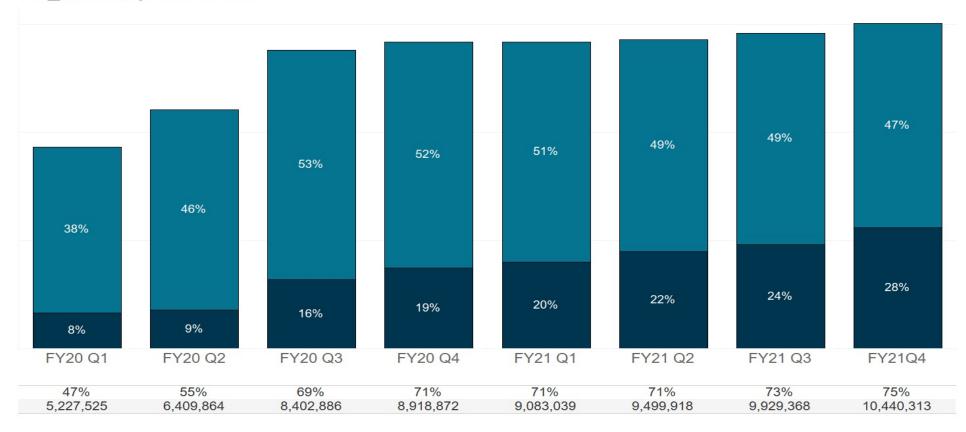
- MMD data collection began fiscal year 2020 (Oct 2019 – Sept 2020)
- Collected quarterly in 51 countries
- Process indicator:
 Number of clients
 receiving MMD / total
 number of clients on
 treatment



We have doubled the number of clients receiving MMD in two years

MMD Totals

TX_CURR by MMD Level



10.4M ART clients are receiving at least 3MMD,
DOUBLE the number of clients receiving MMD in FY20 Q1.

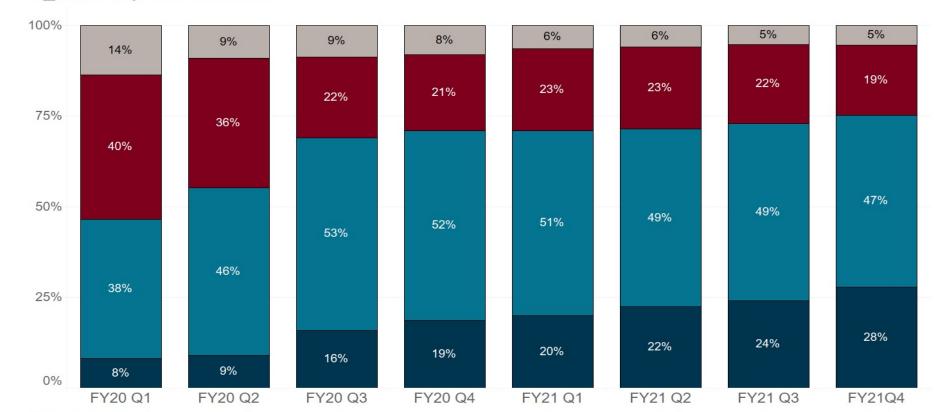
3-5 Month MMD



PEPFAR supported sites continues to increase the % of ART clients receiving MMD

MMD Breakdown

TX CURR by MMD Duration



- Month MMD

As of FY21 Q4,

- **75%** of all PEPFARsupported ART clients are receiving at least 3 month dispensing of **ARVs**
- 3-5MMD coverage (47%) decreased in Q4 as more clients were transitioned to 6MMD (28%)
- Overall MMD growth slowed in FY21. We have reached saturation in some countries and face persistent barriers in others



Patients can be safely transitioned to MMD without compromising longer term treatment continuity and viral load suppression outcomes



Estimating the effect of increasing dispensing intervals on retention in care for people with HIV in Haiti

Canada Parrish^{a,*}, Anirban Basu^a, Paul Fishman^a, Jean Baptiste Koama^b, Ermane Robin^c, Kesner Francois^c, Jean Guy Honoré^d, Joëlle Deas Van Onacker^c, Nancy Puttkammer^a

Study in Haiti that provides a causal estimate of the effect of extending ART dispensing intervals increased the probability of retention in care at 12 months after ART initiation, with up to a 24% increase in the likelihood of retention

THE LANCET Global Health

Multimonth dispensing of up to 6 months of antiretroviral therapy in Malawi and Zambia (INTERVAL): a cluster-randomised, non-blinded, non-inferiority trial

Risa M Hoffman, Crispin Moyo, Kelvin T Balakasi, Zumbe Siwale, Julie Hubbard, Ashley Bardon, Matthew P Fox, Gift Kakwesa, Thokozani Kalua, Mwiza Nyasa-Haambokoma, Kathryn Dovel, Paula M Campbell, Chi-Hong Tseng, Pedro T Pisa, Refiloe Cele, Sundeep Gupta, Mariet Benade, Jawanes Long, Themb. Yuli, Jan Sange, Surfan, Paser

A randomized study of facility-based 6-monthly dispensing demonstrated to be a highly feasible and cost-effective model of dispensing for large-scale implementation in resource-limited settings

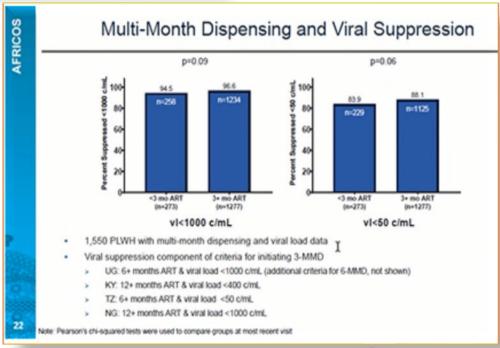
RESEARCH ARTICLE

Twenty-four-month outcomes from a cluster-randomized controlled trial of extending antiretroviral therapy refills in ART adherence clubs

Tali Cassidy 1-2.5 ② Anna Grimsrud ② Claire Keene 1 ② Keitumetse Lebelo 1, Helen Hayes 4, Catherine Orrelle 3 ③ Nompumelelo Zokufa 1, Tabitha Mutseyekwa 2, Jacqueline Voget 4, Rodd Gerstenhaber 1 and Lynne Wikinson 3.7 ①

A randomized study from Zimbabwe evaluated 6-monthly dispensing in community ART refill groups (adherence clubs)and found retention was non-inferior to 3m community ART refill and 3 m facilitybased dispensing

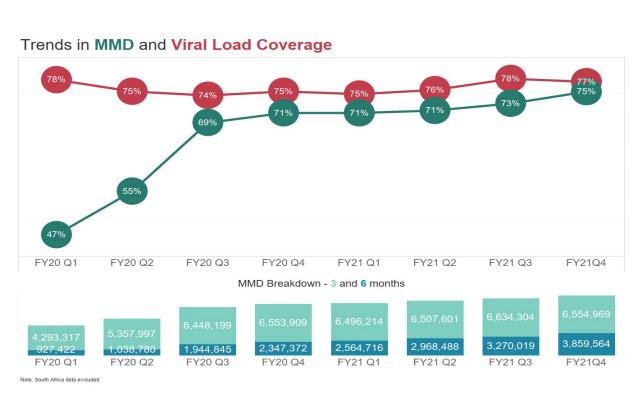
The AFRICOS, long term-cohort study in multiple African countries provides access to multi-month dispensing (MMD) of antiretroviral therapy (ART). Results support treatment continuity and viral load suppression for people living with HIV (PLHIV) and reduced burden on health facilities





MMD Effect on VL Coverage and VL Suppression Rates

As PEPFAR has increased MMD coverage across the program, we have not seen any subsequent drop-off in VL coverage and VL suppression rates



Trends in MMD and Viral Load Suppression



Confounding factors: COVID's negative impact on VL testing in many OUs



Site Improvement Through Monitoring System (SIMS)

- SIMS is a standardized approach to evaluate program quality at PEPFAR supported sites that guide and support service delivery and non-service delivery functions
- Analyzing SIMS data, with triangulated MER and epidemiological data, can provide insight into the root causes of programmatic gaps and challenges. A main goal of SIMS assessments is to stimulate quality improvement activities



Description of Final CEE Scores

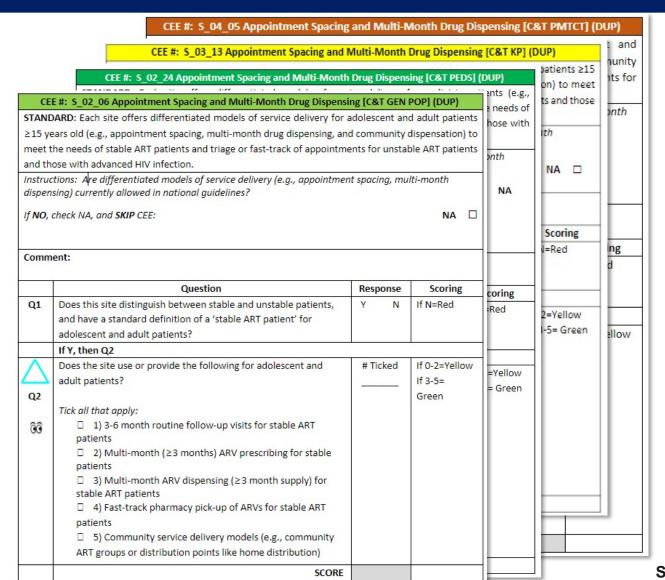
COLOR (# score)	DESCRIPTION
G: Green (3)	Meets standard
Y: Yellow (2)	Needs improvement
R: Red (1)	Needs urgent remediation
Gray (0)	Not Applicable selected

Core Essential Elements (CEE) Structure Used within this Tool





SIMS Tool: CEE Appointment Spacing and MMD



Appointment Spacing and Multi-month Drug dispensing is being assessed and disaggregated for four population types:

CEE #: S_02_06 Appointment Spacing and Multi-Month Drug Dispensing **C&T GEN POP**

CEE #: S_02_24 Appointment Spacing and Multi-Month Drug Dispensing **C&T PEDS**]

CEE #: S_03_13 Appointment Spacing and Multi-Month Drug Dispensing [C&T KP]

CEE #: S_04_05 Appointment Spacing and Multi-Month Drug Dispensing C&T PMTCT



SIMS DSD CEE is expanding its scope in SIMS 4.2v

SIMS 4.1 v

SIMS 4.2 v (Oct 2022)

CEE #: S_02_06 Appointment Spacing and Multi-Month Drug Dispensing [C&T GEN POP] (DUP)

STANDARD: Each site offers differentiated models of service delivery for adolescent and adult patients ≥15 years old (e.g., appointment spacing, multi-month drug dispensing, and community dispensation) to meet the needs of stable ART patients and triage or fast-track of appointments for unstable ART patients and those with advanced HIV infection.

Instructions: Are differentiated models of service delivery (e.g., appointment spacing, multi-month dispensing) currently allowed in national guidelines?

Question

If NO, check NA, and SKIP CEE:

NA 🗌

Comment:

	Question	response	Scoring
Q1	Does this site distinguish between stable and unstable patients, and have a standard definition of a 'stable ART patient' for adolescent and adult patients?	Y N	If N=Red
	If Y, then Q2		
Q2 @0	Does the site use or provide the following for adolescent and adult patients? Tick all that apply: □ 1) 3-6 month routine follow-up visits for stable ART patients □ 2) Multi-month (≥3 months) ARV prescribing for stable patients	#Ticked	If 0-2=Yellow If 3-5= Green
	 □ 3) Multi-month ARV dispensing (≥3 month supply) for stable ART patients □ 4) Fast-track pharmacy pick-up of ARVs for stable ART patients □ 5) Community service delivery models (e.g., community ART groups or distribution points like home distribution) 		

SIMS 4.2 expands DSD assessment to include:

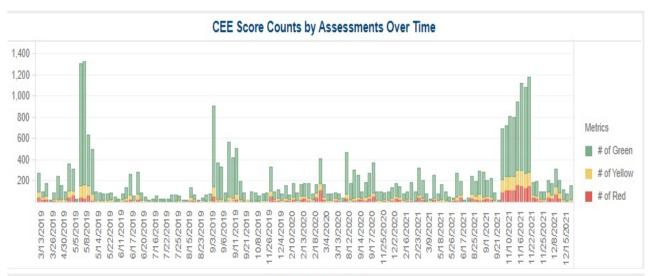
- Initiating ART MMD for 3-5 m
- Initiating ART MMD for >6m
- DSD appointment spacing with VL monitoring
- MMD of ARV, in conjunction with TB, TPT, FP and NCDs

/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	R	STANDARD: Each site offers differentiated service delivery (DSD) more	dels for adole:	scent and adult
Instructions: Are differentiated models of service delivery (e.g. multi-month dispensing) currently allowed in national guidelines? If NO, check NA, and SKIP CEE: Comment: Question Question Response Scoring Q1 Does the site utilize specific eligibility criteria for provision of DSD? Y N If N=Red If Y, then Q2 Does the site use or provide the following for adolescent and adult clients? Tick all that apply: 1) 3-5 month ARV dispensing for eligible clients receiving ARV refills 2) 3-5 month ARV dispensing for eligible clients initiating ART 3) 6+ month supply of ARV dispensing for eligible clients receiving ARV refills 4) 6+ month supply of ARV dispensing for eligible clients initiating ART 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients		clients ≥15 years old (e.g. multi-month drug dispensing, community dis	pensation) to	meet the needs
If NO, check NA, and SKIP CEE: Comment: Question Question Response Scoring Q1 Does the site utilize specific eligibility criteria for provision of DSD? Y N If N=Red If Y, then Q2 Does the site use or provide the following for adolescent and adult clients? Tick all that apply: 1) 3-5 month ARV dispensing for eligible clients receiving ARV refills 2) 3-5 month ARV dispensing for eligible clients initiating ART 3) 6+ month supply of ARV dispensing for eligible clients receiving ARV refills 4) 6+ month supply of ARV dispensing for eligible clients initiating ART 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients		of ART clients.		
If NO, check NA, and SKIP CEE: Question Response Scoring	Instruc	tions: Are differentiated models of service delivery (e.g. multi-month disp	ensing) curren	tly allowed in
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If Y, then Q2 Does the site use or provide the following for adolescent and adult clients? Tick all that apply: 1) 3-5 month ARV dispensing for eligible clients receiving ARV refills 2) 3-5 month ARV dispensing for eligible clients initiating ART 3) 6+ month supply of ARV dispensing for eligible clients receiving ARV refills 4) 6+ month supply of ARV dispensing for eligible clients initiating ART 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients		Question	Response	Scoring
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Tick all that apply: 1) 3-5 month ARV dispensing for eligible clients receiving ARV refills 2) 3-5 month ARV dispensing for eligible clients initiating ART 3) 6+ month supply of ARV dispensing for eligible clients receiving ARV refills 4) 6+ month supply of ARV dispensing for eligible clients initiating ART 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients		Does the site use or provide the following for adolescent and adult	# Ticked	If 0-6=Yellow
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☐ 3) 6+ month supply of ARV dispensing for eligible clients receiving ARV refills ☐ 4) 6+ month supply of ARV dispensing for eligible clients initiating ART ☐ 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients				
receiving ARV refills 4) 6+ month supply of ARV dispensing for eligible clients initiating ART 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients		2) 3-5 month ARV dispensing for eligible clients initiating ART		
initiating ART 5) Fast-track pharmacy pick-up of ARVs for all eligible ART clients				
clients		Control of the Contro		
6) Community service delivery models (e.g., community ART		1 11 1		
groups, family care, or distribution points like home distribution)		groups, family care, or distribution points like home distribution)		
7) DSD appointment spacing aligned with frequency of viral		 7) DSD appointment spacing aligned with frequency of viral 		
load monitoring		load monitoring		
□ 8) MMD of ARV in conjunction with services for TB		 8) MMD of ARV in conjunction with services for TB 		
prevention, TB treatment, family planning, and/or NCDs		prevention, TB treatment, family planning, and/or NCDs		
(diabetes, hypertension)		(diabetes, hypertension)		

CEE #: 5 02 06 Provision of Differentiated Service Delivery (DSD) Models [C&T GEN POP] (DUP)

SCORE

SIMS Performance Trends



	Site	Assessments			
Organisation Site	Assessment Date	Assessment Type	# of Red Scores	# of Yellow Scores	# of Green Scores
Chemuswo Dispensary	11/27/2020	Comprehensive	0	0	1
Chepkemel Health Centre (Mosop)	12/2/2020	Comprehensive	1	0	0
	5/18/2021	Comprehensive	0	0	1
Chepkumia Dispensary	3/14/2019	Comprehensive	0	1	0
	8/16/2019	Comprehensive	0	0	1
Chepkunyuk Dispensary	11/28/2019	Comprehensive	1	0	0
	2/18/2021	Comprehensive	1	0	0
	6/15/2021	Follow up	0	0	1

SIMS-MER Integrated Analysis > SIMS MER Integration > Assessment Trends

SIMS data analysis provide insights into programmatic gaps and challenges. Analysis done by tool and type, reasons for prioritization for SIMS visit, CEE scores, performance evaluation

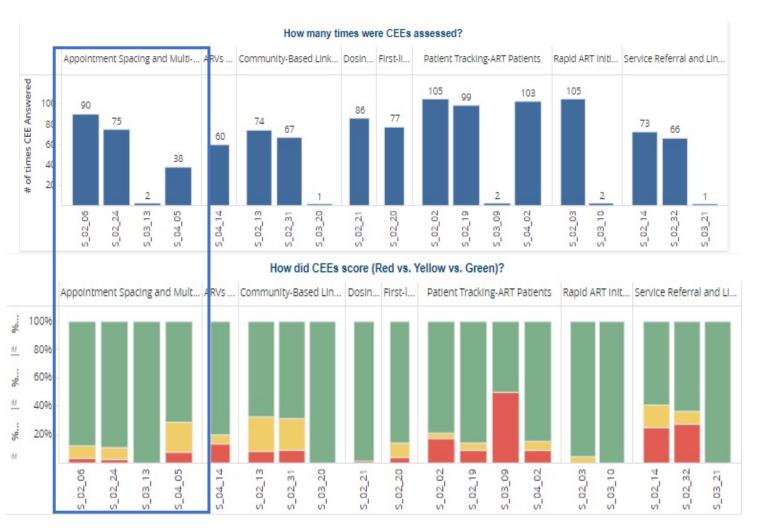
Analysis of trends for **S_02_06**. **Spacing appointments** and **MMD in adults**, in a sample OU in the last two years (FY19 Q2-FY22 Q1)

CEE Score Counts by Assessment Over Time. Number and scores of SIMS country assessments for S_02_06 CEE per assessment date

Site assessments: Multiple assessments conducted for the S_02_06 showcase the score improvement or lack thereof in each site assessed



Person Centered Care: MMD



MMD dispensing is analyzed in the context of other relevant CEEs that pertain to the person centered ARV treatment and care

- Appointment Spacing and Multi-Month Drug Dispensing
- ARVs at Labor and Delivery
- Community-Based Linkage and Retention Support Services
- Dosing of Pediatric and Adolescent ARVs
- First-line ART Regimen for Young Children
- Patient Tracking-ART Patients
- Rapid ART Initiation
- Service Referral and Linkage System

SIMS Patient experience> Treatment> EMR Systems and Multi-month Dispensing

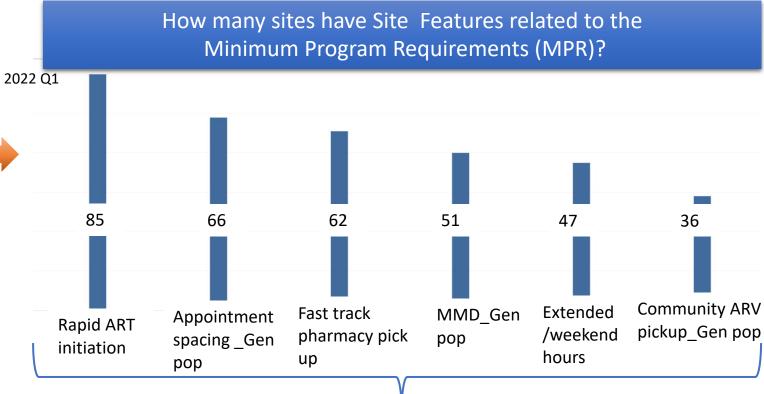
Person Centered Care: SIMS Patient Experience Dossier

Understanding people's experience of accessing and utilizing HIV services provided at sites is critical to addressing

the barriers and enablers to quality of services

Sites are assessed on key features that promote patient treatment adherence and viral suppression:

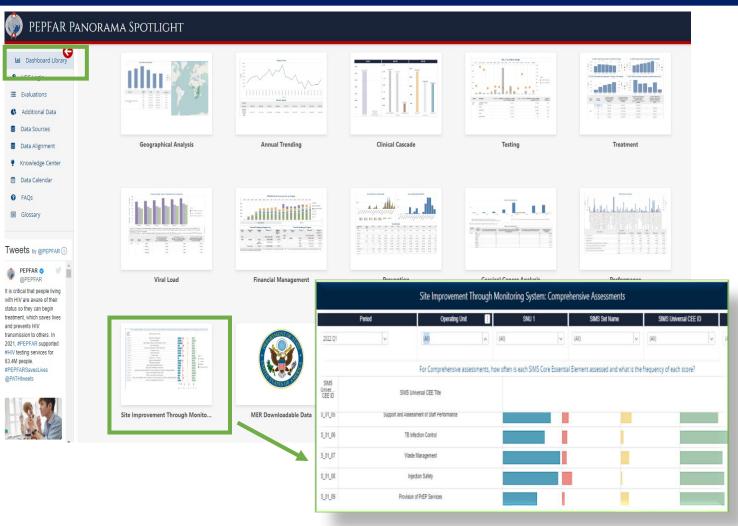
- Convenient
- Hospitable/friendly
- Supportive/responsive
- Peds specific
- **KP** specific



Convenient Key Site Features



SIMS open for public access: PEPFAR Panorama Spotlight



SIMS assessments results are used to strengthen alignment with global and national standards to facilitate program improvement

Resources available for public access:

<u>PEPFAR Panorama Spotlight</u> dashboard:

https://data.pepfar.gov/library

<u>SIMS assessments tools</u> available at:

https://datim.zendesk.com/hc/en-us/sections/200929305-SIMS

<u>PEPFAR Virtual Academy</u>: Two SIMS e-learning courses:

https://learn.pepfar.net/courses/course-v1:learn-pepfar-net+PROG108SIMS100+2019_indefinite/about

 SIMS Downloadable datasets from all OUs and Data Dictionary since January 2019 onwards



Key takeaways

Ensure MMD is meeting client needs

- Patient preference for dispensing interval
- Enhanced case management/virtual support

Optimizing services

- Aligning MMD schedules/ART pickups across family members
- Batching MMD/ART pickups with VL testing (at the facility and community level)
- MDD of ARV in conjunction with services for TB prevention, TB treatment, family planning, and/or NCDs (diabetes, hypertension)

Implementation research

- Ensuring that MMD is associated with viral suppression

