Implementing PEPFAR Activities in the COVID-19 Pandemic Era

CDC Malawi

September 30th, 2020



Presentation Overview

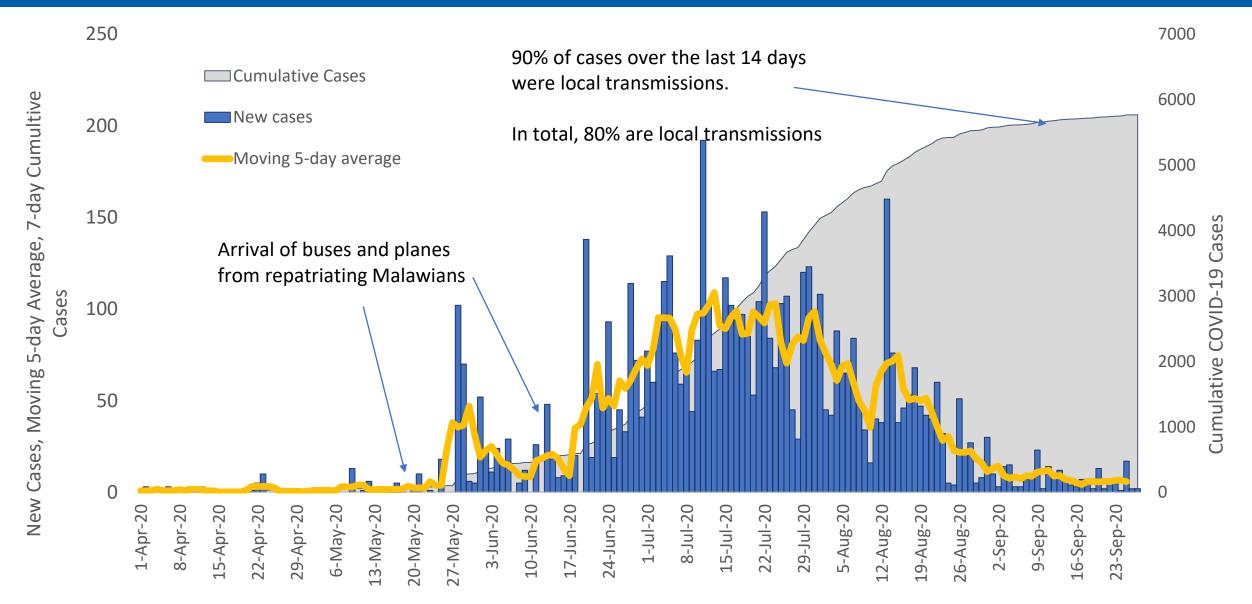
1. Epidemiology of COVID-19 in Malawi

2. Integration of COVID-19 risk mitigation measures in HIV service delivery

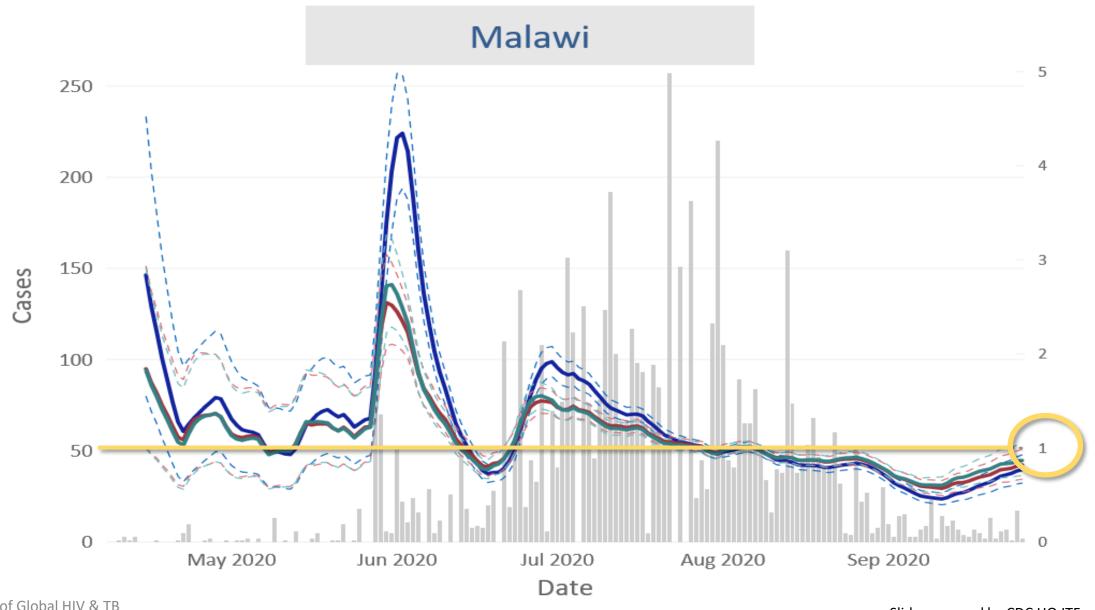
3. Impact of COVID-19 on HIV service delivery

1. Epidemiology of COVID-19 in Malawi

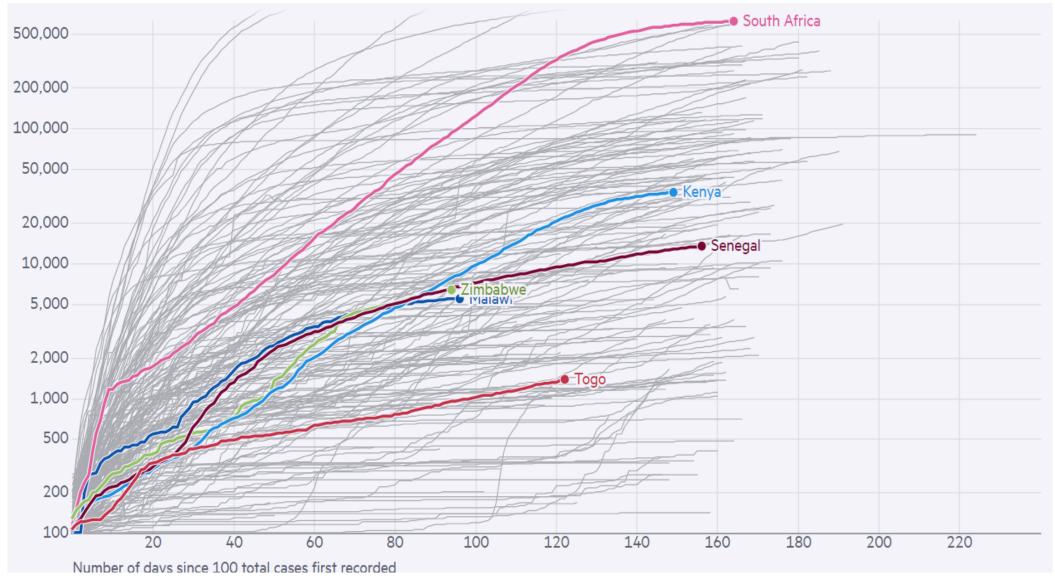
Epidemic Curve – **Sept 20** | Most recent 5-day moving average is 6 cases/day flat from about 5/day 2 weeks ago, and down from 11/day 4 weeks ago



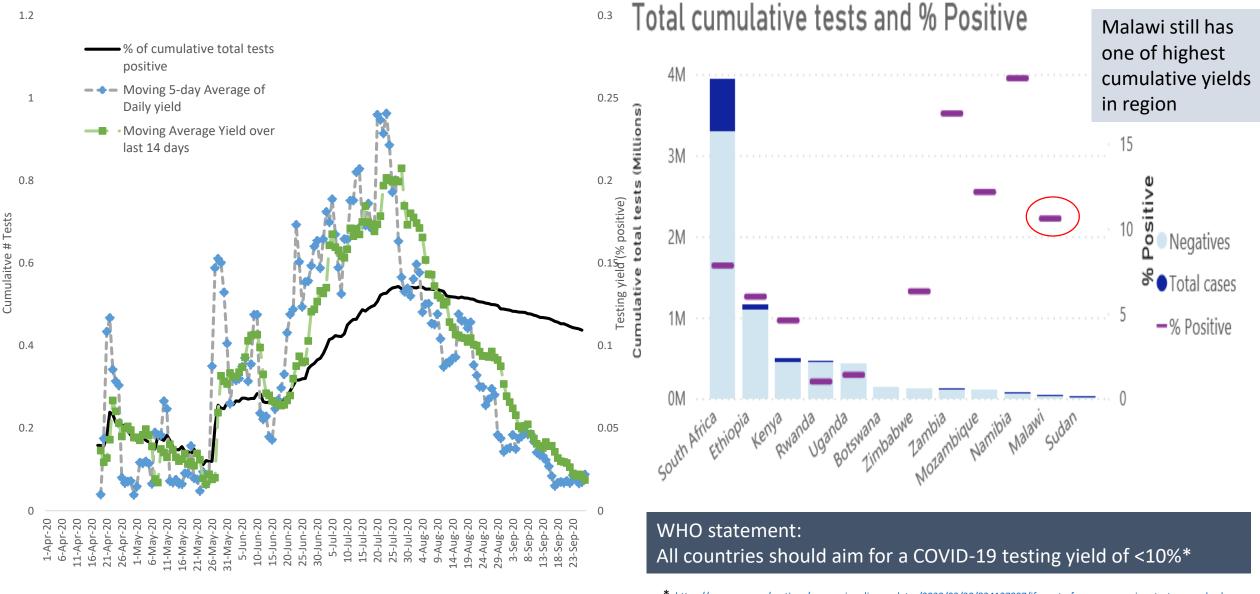
Malawi Rt Analysis COVID-19 cases in Malawi have been in "sustained decline" | Rt Consistently Below 1 since August, 2020



Cumulative New Cases (log) | Malawi appears similar to other countries

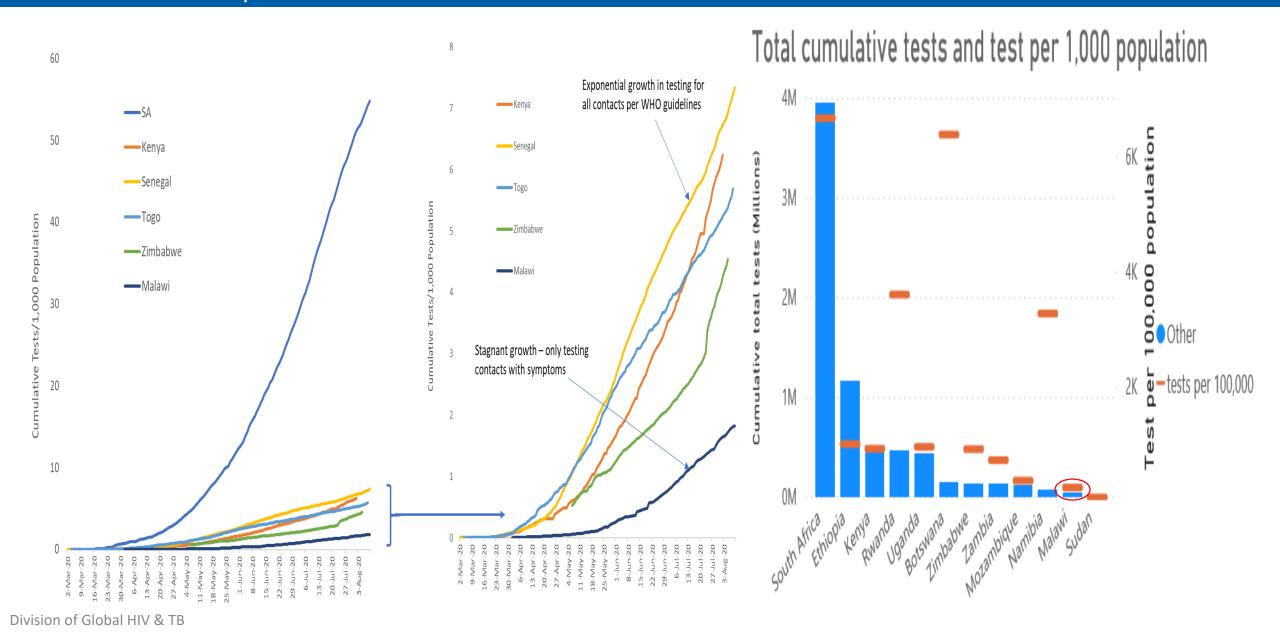


Testing Yield (% Positive) | 11% of Cumulative COVID-19 PCR Tests Positive through Sept 28 - Moving 5-day average now 2%, down slightly from 3% 2 weeks ago.

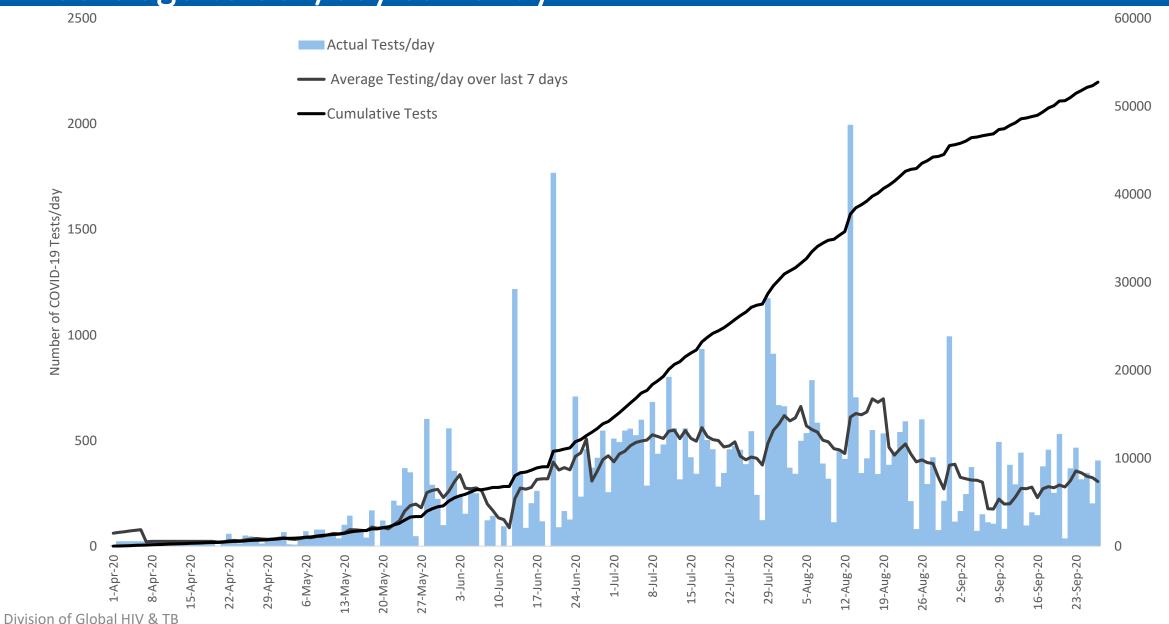


^{*}_https://www.npr.org/sections/coronavirus-live-updates/2020/03/30/824127807/if-most-of-your-coronavirus-tests-come-back-positive-youre-not-testing-enough

Malawi has one of lowest testing rates in Africa | Only Sudan lower out of 12 countries compared below



Gradually Increasing testing volume from an average of 178/day three weeks ago to 307/day currently



Dwindling Stock of both COVID PCR and Test Swabs | Malawi MOH will Only Adopt WHO Testing Guidelines when Sufficient Testing Stock Confirmed

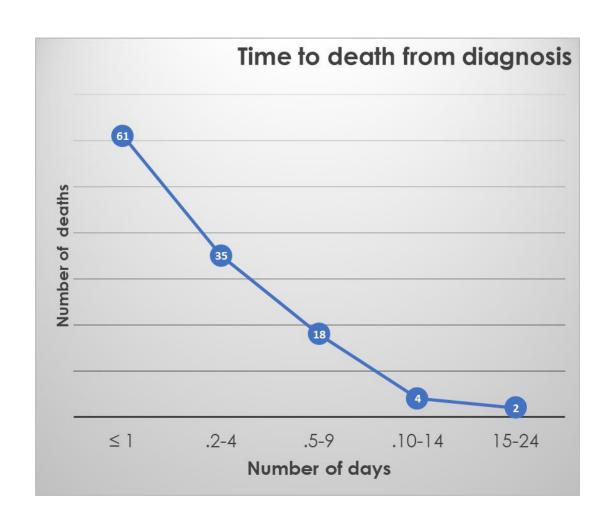
		NATIONAL STOCK LEVELS									
		ltem	Supported By	Number of Tests D Received	ate expected or received	Number of Tests Distributed to Facilities	Number of tests/swabs used at Facilities	Number of tests /swabs still available at Facilities	Stock at Hand at Central Warehouse (Number of Tests)	Total number of tests available	Comment
		Abbott Test Kits	CDC/UMB	25536	22-Jul	25536	24500	1036	0	1036	
		TIB	WHO/AFRICA CDC	10000	Apr-20	10000	8213	1787	0	1787	
		TAQPATH	WHO	10000	Aug-20	0	02.0	0	10000		Missing Accessories
		TAQPATH	UNICEF	38000	Aug-20	0	0				Missing Accessories
		I A GU A LIII	WHO/AFRICA	00000	7.0g 20	Ü	Ü		00000		Only CHSU has
		TIB	CDC	10000	Sep-20	10000	300	9700	0		accessories
		DAAN GENE	STD BANK MALAWI	3000	Sep-20	3000	000	3000	0		Using VL accessories
>		Total PCR Tests	MALATT	83536	3CD-20	35536	32713	2823	48000	50823	OSING VE accessories
ountr				65556		33336	32713	2023	48000	30623	
ly in-c		GeneXpert Cartridges	CHAI/UNICEF	17500	Jun-20	17500	17123	377	0	377	
Already in-country		Total GeneXpert cartridges		17500		17500	17123	377	0	377	
	Lab- PCR+ GeneXp ert	Total lab-based PCR + GeneXpert Tests		101036		53036	49836	3200	48000	51200	
	y,	Extraction kits	Jack Ma	18912	May-20	18100	10862	950	6288	7238	
	₹	total Etraction kits	Jack Ma	22912	May-20	18100	10862	950	6288	7238	
	Extraction kits	Iolai Eliaciion kiis		22712		18100	10002	730	0200	7230	
	and	Sample collection swabs	WHO	38000	Jul-20	5000	5000	0	33000	33000	
	abs	Sample collection									
	Š	swabs	CDC/UMB	28000	Jul-20	19000	9865			9135	
		Total Swabs***		66000		24000	14865	2135	40000	42135	
		Pipeline reagents									
		D. A. M. O. F. M. T.	CHINESE	00055	24.0						
e d		DAAN GENE	EMBASSY	20000	26-Sep	0	0	0	0	0	
5		Alaban Taal Kii	MoH/Global	(0000	0.1.00				_		
pro		Abbott Test Kits	Fund	60000	Oct-20	0			0		
þe		Abbott Test Kits Total PCR Kits	UNICEF	49000	N0v-30	0	0	0	0	100000	
\$	-	I OTAL PCK KITS		109000		0	0	0	0	109000	
Ħ	je je	G									
about to be procured	GeneXpert	GeneXpert Cartridges	UNICEF	6500	No Leadtime	O			0		
d o	- B	Total Cartridaes		6500						6500	
Procured	Lab- PCR+ Gene Xpert	Total lab-based PCR + GeneXpert Tests		115500		0	0	0	0	115500	
<u>-</u>											
	Swabs and VTM	Total Swabs		0		0	. 0	0			

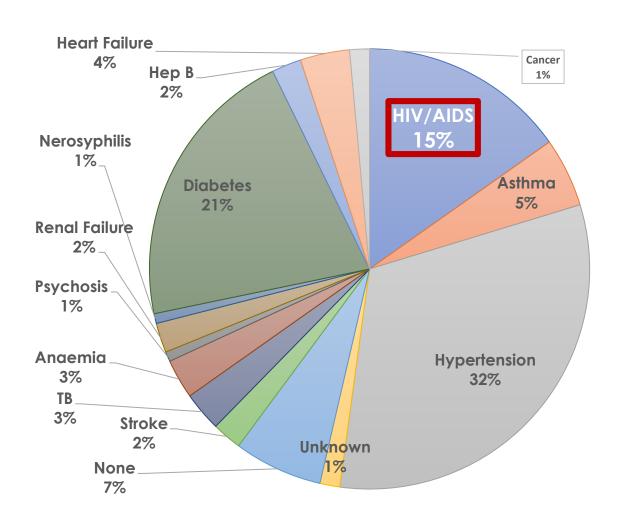
>50,000 tests in the warehouse, but 48,000 missing accessories

GFATM supplies expected to arrive in October

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COVID-19 Deaths | Death Occurs Early after Diagnosis – 15% of Deaths had HIV Comorbidity





2. Integration of COVID-19 in HIV Service Delivery Settings

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CDC activities for COVID that are directly benefitting PLHIV

	COVID package of care
	 Infection prevention and control Handwashing materials/commodities PPE for health workers Provision of masks for patients
	Risk mitigation: infection prevention and control
(((,))	Community sensitization
<u>\$</u>	Diagnostics data management support (LMIS)
Q	Surveillance

The majority of CDC implementing partners are supporting COVID related activities



COVID-19 Risk Mitigation Measures in HIV Clinic Settings

- Routine COVID-19 symptom screening of patients at entry points
- Personal protective equipment was consistently supplied to implementing partner health care workers
- Disinfection protocols established
- Cloth masks produced by HIV community groups were distributed to all ART clients
- Hotline for patients established to allow communication from patient to provider





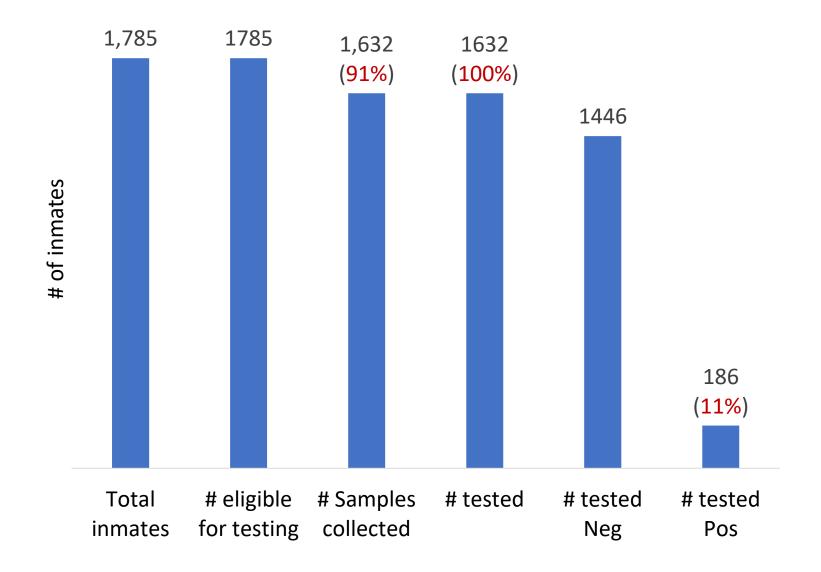
Site specific data shows variation in COVID testing positivity rates

Health Facilities				Symptomatic Persons Attending Health Facilties			
	Region	District	Health Facility Name	Positive (N, %)	Number of tests done		
	Central	Lilongwe	Kabudula Commuinty Hospital	(0,0%)	0		
	Central	Ntchisi	Ntchisi District Hospital	(0.0%)	20		
	Central	Lilongwe	Bwaila Hospital	(5,11.9%)	42		
	Central	Lilongwe	Kawale Health Center	(1,6.25%)	16		
	Northern	Karonga	Karonga District Hospital	(0,0%)	0		
	Northern	Rumphi	Rumphi District Hospital	(0,0%)	0		
	Northern	Mzimba	Mzimba District Hospital	(1,3.33%)	30		
	Northern	Nkhatabay	Nkhata Bay District Hospital	(0,0%)	0		
	Northern	Mzimba	Mzuzu Health Center	(0,0%)	0		
	Northern	Mzimba	Mzuzu Central Hospital	(0,0%)	0		
	Southern	Blantyre	St. Joseph's Hospital	(0,0%)	0		
	Southern	Zomba	Matawale Health Center	(0,0%)	0		
	Southern	Chiradzulu	Chiradzulu District Hospital	(0,0%)	0		
	Southern	Zomba	Zomba Central Hospital	(0,0%)	0		
				(7, 6.48%)	108		

Prisons

- 19 prisons in 11 PEPFAR/CDC supported districts (Lilongwe, Blantyre, Ntchisi, Dedza, Ntcheu, Mzimba, Nkhata bay, Rumphi, Zomba, Thyolo and Mwanza)
 - 1,376 contacts of known COVID-19 cases tested; 338 (25%) tested positive (By August 31, 2020)

COVID testing among inmates in a high-volume prison, August 11-21, 2020 | High uptake (at 91%) of testing among inmates and positivity rate at 11%



Screening and testing exercise conducted jointly by Malawi Prisons Services, District Health Office and EGPAF, August 11-21, 2020

- Of the 186 positives, 50 (27%) had comorbidities
 - 47 with HIV
 - 3 with TB
- The most common age band affected by COVID 19 were 25-29 and 35-39 years
- All inmates testing positive were put in isolation

Lighthouse ECHO Platform Adapted for COVID Screening and Case Management

- Led a 6-week training for weekly ECHO® sessions via Zoom® on COVID-19 for frontline HCW covering the following topics:
 - Basic epidemiology and virology
 - Infection prevention in COVID-19
 - Triage, diagnosis and isolation of COVID-19
 - Management of COVID-19 patients
 - HIV and TB care in times of COVID-19
 - Psychological aspects and social media in COVID-19





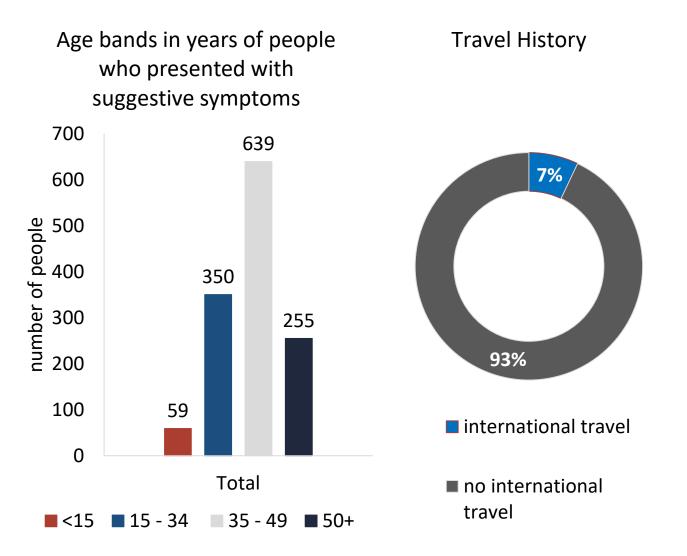
Innovations in a COVID pandemic era | Utilization of ART/TB services to identify COVID patients

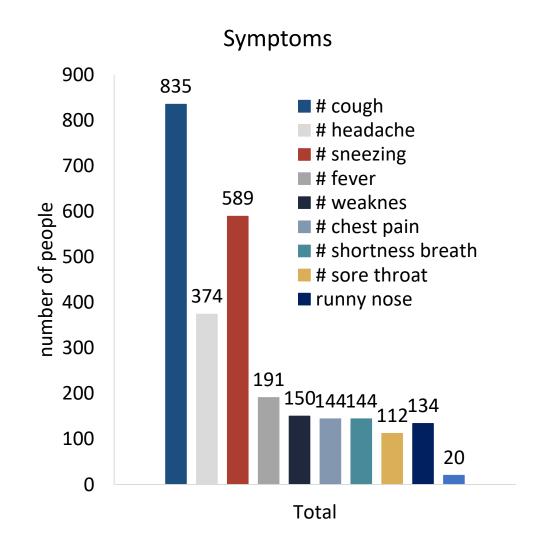
- ART and TB clinics are often primary contact point for patients with fever and cough
- Close communication was established with the lab to improve SARS COV-2 results turn-around time



- Preliminary data from 6 sites in Blantyre implementing an integrated COVID-19 and TB screening SOP (Sept 21st-25th, 2020):
 - 2,343 patients screened
 - 44 COVID-19 suspects identified and referred for testing
 - 72 TB presumptive cases identified
 - 57 samples were collected and 11 (19.2%) confirmed TB.

Characteristics of patients presenting at high-volume referral level HIV clinics | Most are aged 35-49, presenting with cough and no history of international travel



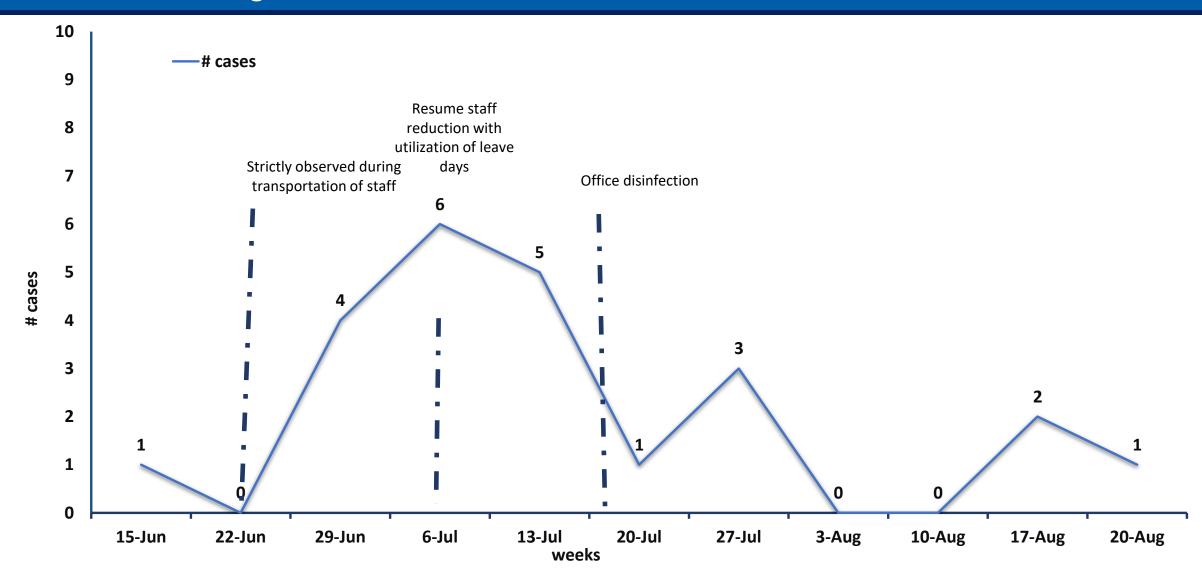


Effects of COVID on Human Resources for PEPFAR HRH Overall | No absenteeism observed amongst HRH despite COVID Fears

Program Areas	Key Interventions	Most Affected	Level of Occurence			
Piogram Aleas	Key litter veritions	Geographic Areas	May	June	July	August
	Repurposing PEPFAR-supported HRH from HIV to COVID response	All Districts	0%	0%	< 25%	< 25%
Case Finding	Repurposing PEPFAR-supported HRH within HIV response (e.g: shifting HCWs from index contact tracing to distributing self tests)	All Districts	< 25%	< 25%	> 25%	> 25%
	Absenteeism among PEPFAR-supported HCWs due to COVID	All Districts	0%	0%	0%	0%
	Repurposing PEPFAR-supported HRH from HIV to COVID response	All districts	0%	0%	< 25%	< 25%
Treatment	Repurposing PEPFAR-supported HRH within HIV response (e.g: shifting nurses from VMMC to conduct community ART initation)	Mulanje, Machinga, Mangochi, Phalombe and Chikwawa	< 25%	< 25%	< 25%	< 25%
	Absenteeism among PEPFAR-supported HCWs due to COVID	All districts	0%	0%	0%	0%
	Repurposing PEPFAR-supported HRH from HIV to COVID response	All districts	> 25%	0%	< 25%	< 25%
Viral Suppression	Repurposing PEPFAR-supported HRH within HIV response (e.g: shifting lab workers designated for VL testing to conduct non-lab related tasks)	All districts	0%	0%	< 25%	< 25%
	Absenteeism among PEPFAR-supported HCWs due to COVID	All districts	0%	0%	0%	0%

Data sourced from Implementation Tracking Tool(ITT) – August 2020

Managing COVID-19 Exposure Risks in High Volume HIV Clinic Settings | Tracking case notifications among IP Health Care Workers



3. Impact of COVID-19 on HIV Service Delivery

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PEPFAR Implementation Tracker for Q3, FY20 | National guidance on Case Finding

- *According to the recent MOH/DHA COVID implementation guidance, <u>HIV services will resume (expect HIV Recency testing).</u>
- IPs should provide community services with precaution.

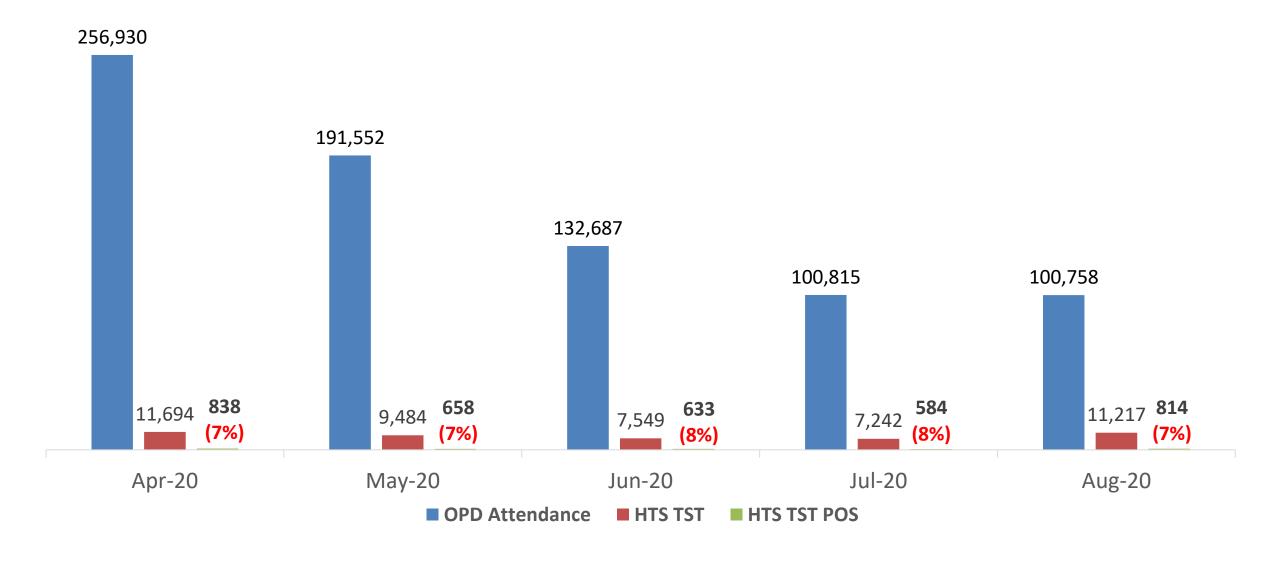
	Program Areas	Key Interventions	Maγ 1-30, 2020	June 1-30, 2020	August 1-31
		HIV Self-testing (inc. through use of	Ongoing, scaled up	Ongoing, scaled up	Ongoing, scaled up
	Facility-based HTS, all	social network testing)			
	modalities except Index	Service delivery at non-PITC and non	Paused until further	Paused until further	Paused until furthe
		ANC areas	notice	notice	notice
	Community-based HTS,	Service delivery at standalone clinics	Paused until further	Paused until further	Paused until furthe
	•		notice	notice	notice
	all modalities except	Service delivery through outreach or	Paused until further	Paused until further	Paused until furthe
	Index	mobile	notice	notice	notice
80		Provider-assisted partner	Ongoing, but scaled	Ongoing, but scaled	Ongoing, but scaled
ä	Index/focility and	notification	down	down	down
Finding	Index (facility- and	Testing of pediatric contacts	Ongoing, but scaled	Ongoing, but scaled	Ongoing, but scaled
	community-based)		down	down	down
Case		IPV or GBV monitoring	Ongoing, no change	Ongoing, no change	Ongoing, no change
C	Early Infant Diagnosis	stock out of EID services for children	Ongoing, no change	Ongoing, no change	Ongoing, no change
	(EID)				
		Repurposing PEPFAR-supported HRH	Less than 25% of	Less than 25% of	Less than 25% of
		from HIV to COVID response	occurrence	occurrence	occurrence
	Effects on Human				

PEPFAR Implementation Tracker for FY20 Q3 | Treatment and VLS (National)

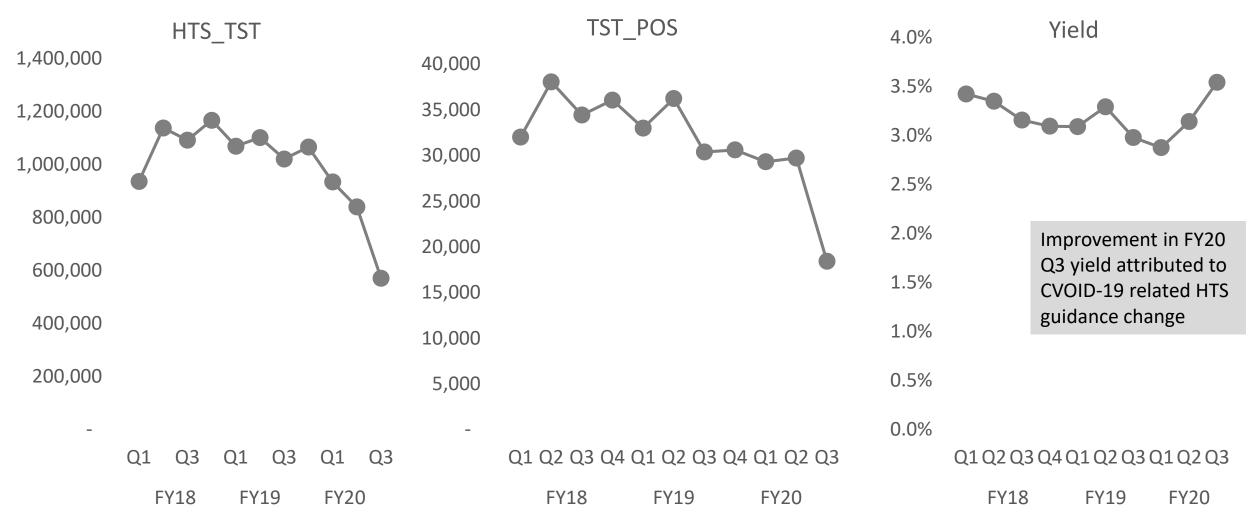
Program Areas	Key Interventions	May 1-30, 2020	June 1-30, 2020	August 1-31, 2020
Test and Treat	Facility-based same-day ART initiation	Ongoing, no change	Ongoing, no change	Ongoing, no change
Differentiated Service Delivery	3 month MMD for eligible dients (including children <20kg)	Ongoing, no change	Ongoing, no change	Ongoing, no change
	3 month MMD for children <20kg	Ongoing, no change	Ongoing, no change	Ongoing, no change
	6 month MMD for eligible dients	Ongoing, scaled up	Ongoing, scaled up	Ongoing, scaled up
	Community-based ARV dispensation/refills	Ongoing, no change	Ongoing, scaled up	Ongoing, scaled up
ART Optimization	TLD Transition	Ongoing, no change	Ongoing, no change	Ongoing, no change
Retention tracking	Telephone tracking of missed appointments, defaulters, and LTFU tracking/tracing	Ongoing, scaled up	Ongoing, scaled up	Ongoing, scaled up
	Physical tracking and home visits deferred	Paused until	Paused until	Paused until further notice
Adherence Counseling and/or Monitoring	Virtual adherence counseling/telemedicine follow-up	Newly Initiated	Ongoing, scaled up	Ongoing, scaled up
TB Diagnosis and Treatment	TB screening, diagnosis. Initation and complention of TB treatment	Ongoing, no change	Ongoing, no change	Ongoing, no change
Viral Load Services	Sample collection from children and adults	Ongoing, no change	Ongoing, no change	Ongoing, no change
	Virtual monitoring/adherence counseling of unsuppressed dients	Newly Initiated	Ongoing, no change	Ongoing, no change
Vi ral Load Ser vi ces	Sample collection for routine Viral load test	Paused until further notice	Ongoing, no change	Ongoing, no change
HRH	Repurposing PEPFAR-supported HRH from HIV to COVID response	Less than 25% of occurrence	Less than 25% of occurrence	Less than 25% of occurrence



OPD Attendance Steadily Dropped from April to August 2020 (Blantyre, Chiradzulu, Thyolo and Zomba) | HTS_TST and HTS_POS numbers are increasing



HIV testing trends at OU level | Overall decline in testing volume, continued decline in new positives, but slight increase in yield

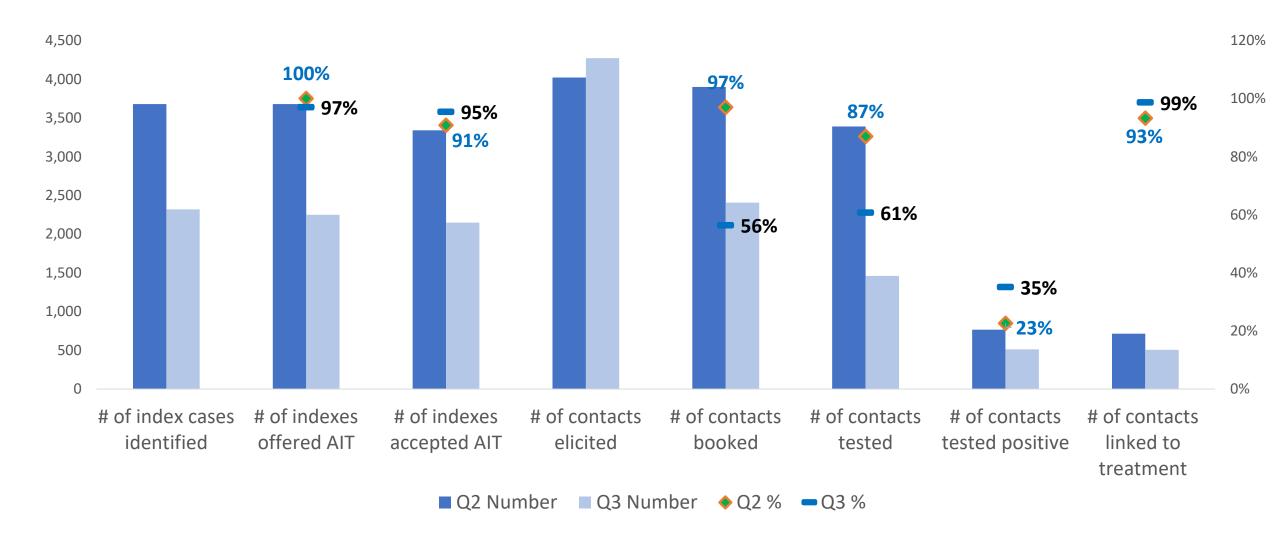


Q2: 496 of 725 sites (68%) reported results, this subset of sites contributed to 90% of results in Q1.

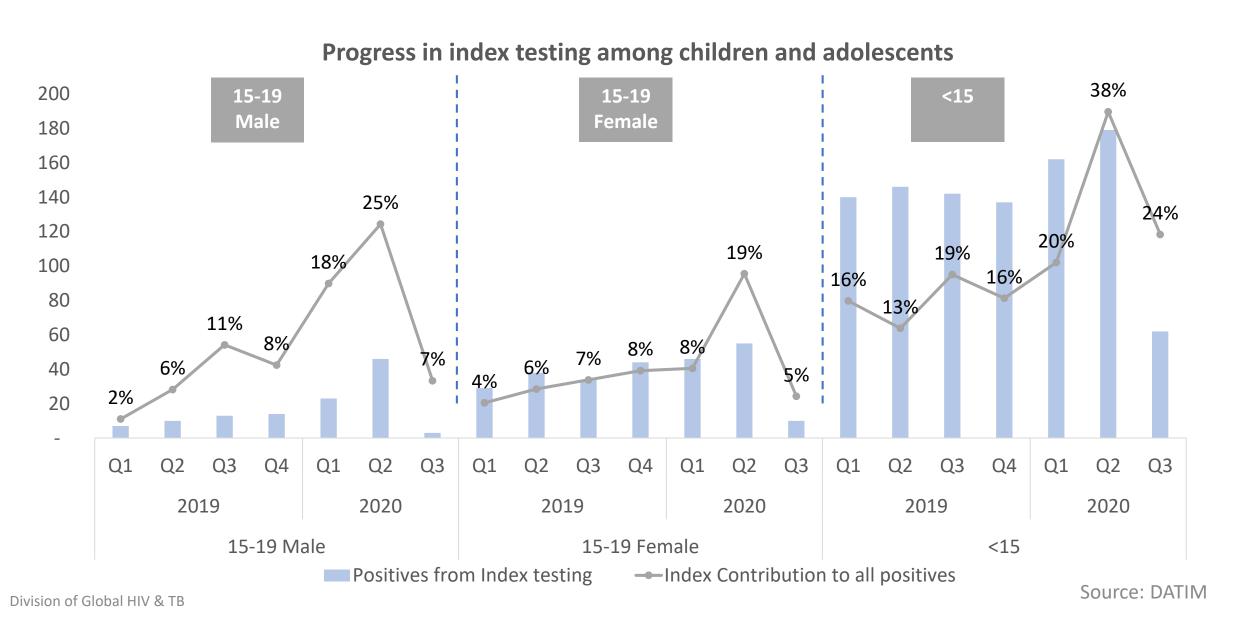
Q3: 696 of 725 sites (96%) reported HTS_TST results.

PAW: FY18 & FY19 DATIM: FY20 (Pre-Clean)

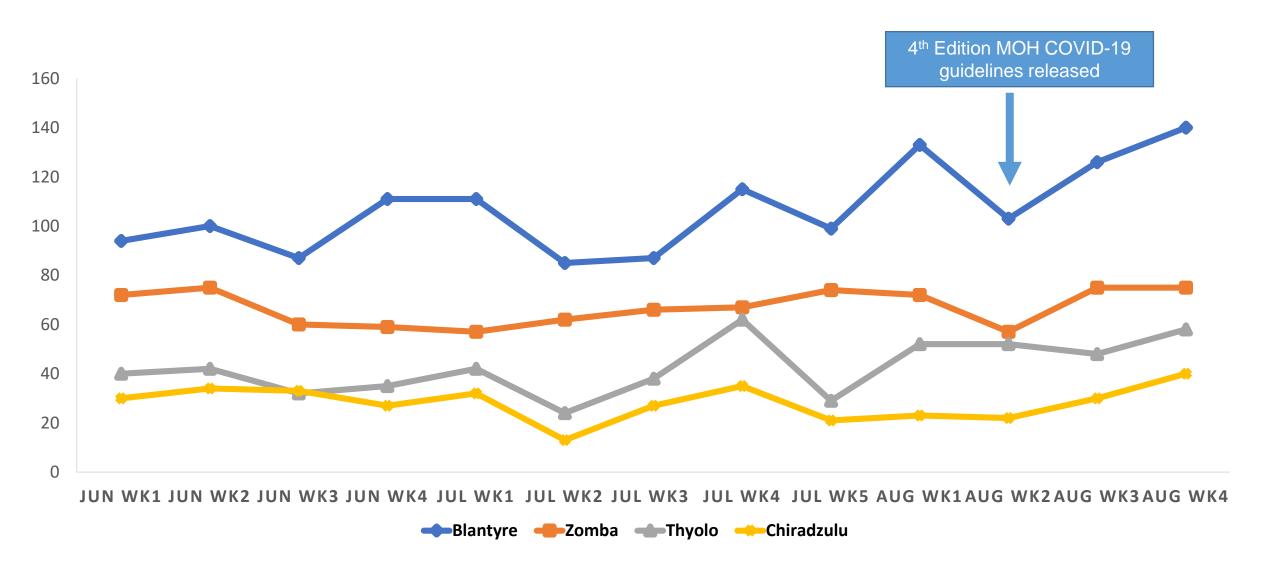
Partner Active Index Testing Cascade in Blantyre: Number of positives identified decreased due to COVID-19



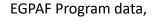
Progressive improvement in new positives diagnosed through index testing among children and adolescents with a drop in FY20 Q3 due to COVID-19

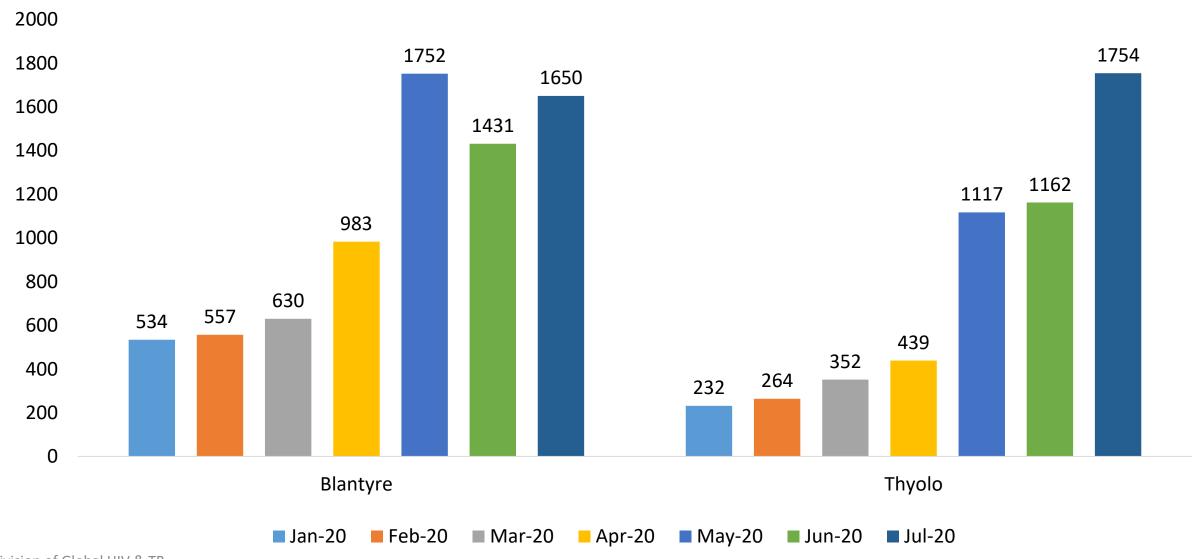


Weekly Trends in HIV+ identified via PITC: Following MOH guidance, HIV+ identified via PITC gradually rising in 4 scale up districts (EGPAF)

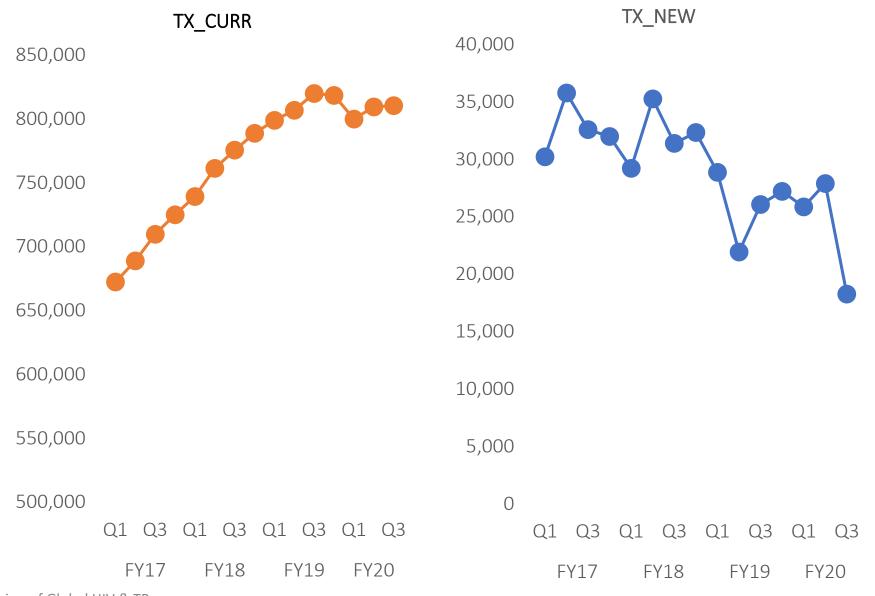


CDC IPs intensified HIVST kits distribution in the wake of COVID-19 | An example of monthly HIVST distribution in scale up districts





Growth in TX_CURR slowed down in FY20 Q3, with only a modest positive NET increase



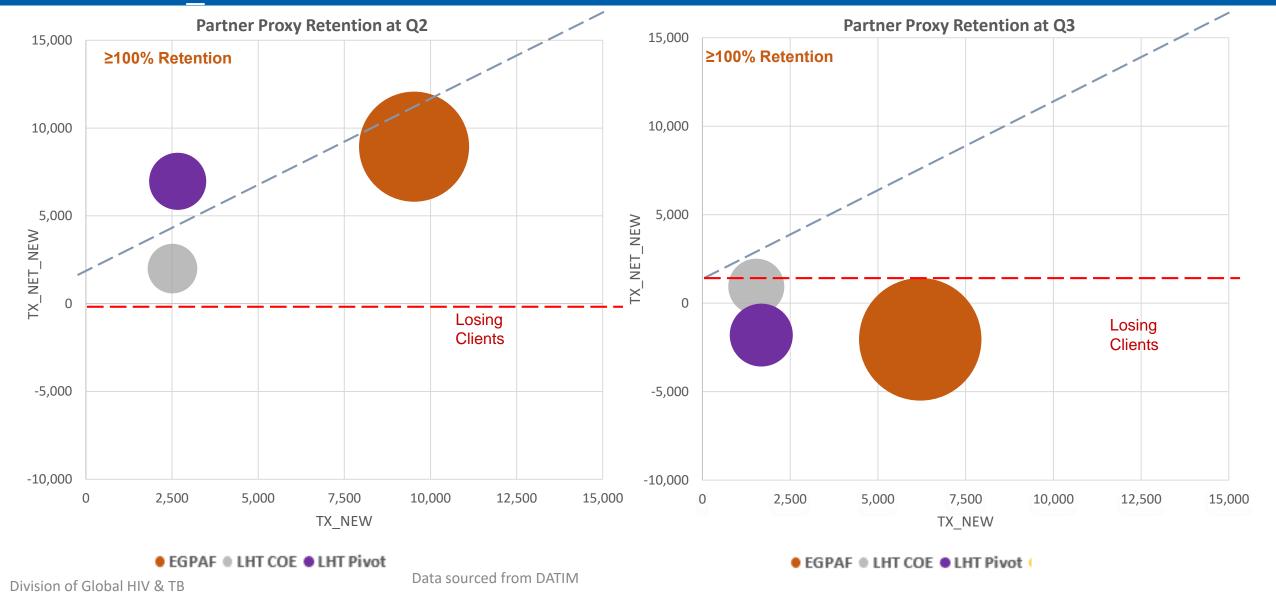
Implication of COVID on 2nd 95

- Higher number of missed appointments (transport and access)
- Suspension of Community Defaulter Tracing
- 3. Low phone ownership for contact tracing
- 4. Reassignment of Expert Clients& limited ability to provide retention and adherence support
- 5. Decrease in Case-finding despite strong linkages.

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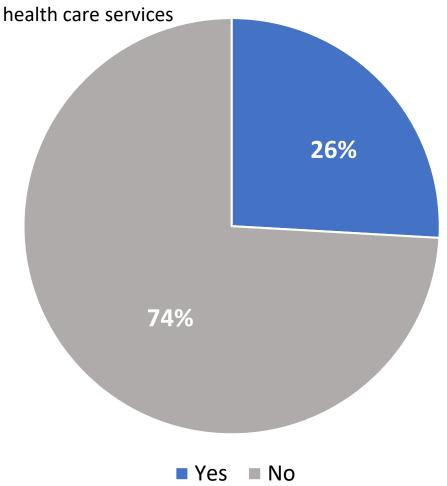
Source: PAW: FY18 & FY19; DATIM: FY20

Three largest CDC treatment IPs experienced slight net loss in FY20 Q3, but CDC's smallest TA mechanism (not shown) accounted for net growth in the overall PEPFAR TX CURR cohort



EGPAF syndromic surveillance survey – Preliminary data | Closed health facilities and lack of transport were key reasons for missing appointments

26% of respondents reported challenges in accessing



	PLHIV- N (%)	General Population N(%)
Health Facility Closed	32 (9.8%)	159 (7.7%)
Didn't have transport	57 (17.5%)	165 (8%)
Travel restrictions	16 (4.9%)	27 (1.3%)
Because couldn't afford to go to the health facility	17 (5.2%)	47 (2.3%)
Unable to obtain medication	9 (2.7%)	97 (4.7%)
Other reasons	195 (59.8%)	1580 (76.1%)
Total	326 (100%)	2075 (100%)

Review of questionnaire comments- 2 main themes affecting access:

- Inadequate resources for health workers
- Patients prevented from accessing services

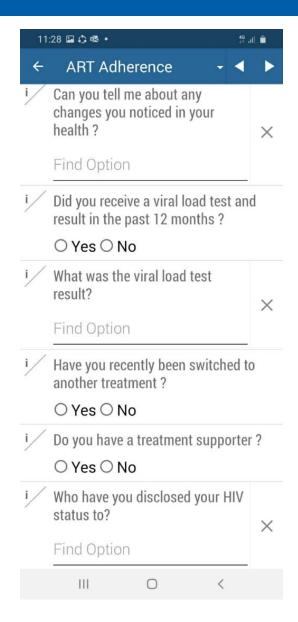
Mitigation plans for the PEPFAR treatment program to address challenges due to COVID-19

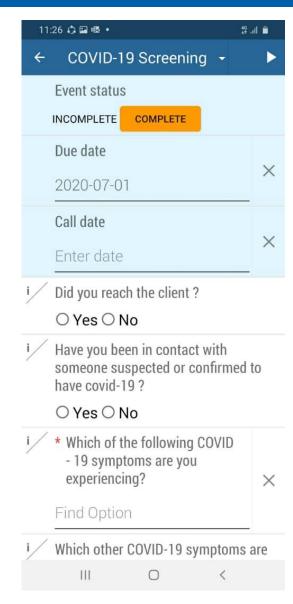
Challenges due to COVID-19

- Low case finding and new initiations due to restrictions
- Increased Missed appointments
- Unable to conduct physical tracing
- Low phone coverage among clients
- Staff sit-ins/strikes

Catch-up missed appointment tracing	IPs are following up those who missed appointments since MoH reopened physical tracing (August 14, 2020)
DSD to Decongest clinics and improve retention	Increase enrollment into DSD models including 6MMD, community models, extended/flexi hours
Innovative, responsive approaches	Continued efforts for telephonic services including, more phones for Expert clients, updating client contact details, virtual support, SMS appointment reminders
Right sizing PSS cadres	Repositioning some HTS staff (HDAs) to focus on retention, case management for new and other high-risk patients

Screenshots of a phone application for virtual support



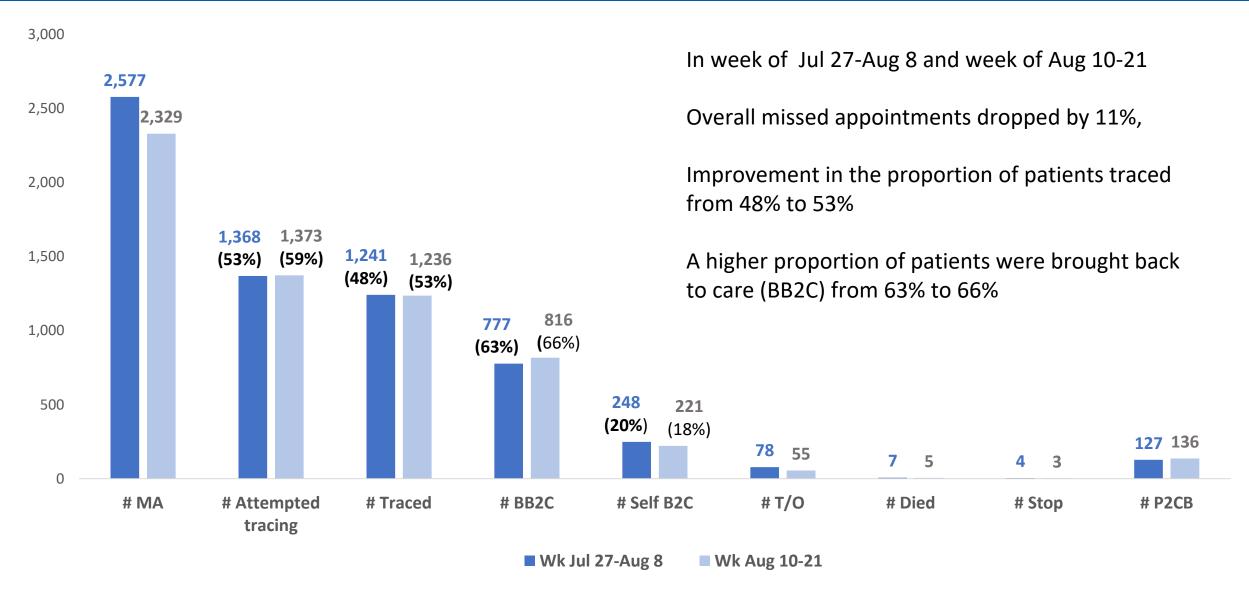


- Phone App was developed in Q3 FY20
- It acts as script and data capture tool

Investments

- Trainings on the use
- Airtime for each holder per month for data sync with server
- 136 android phones reserved for installation

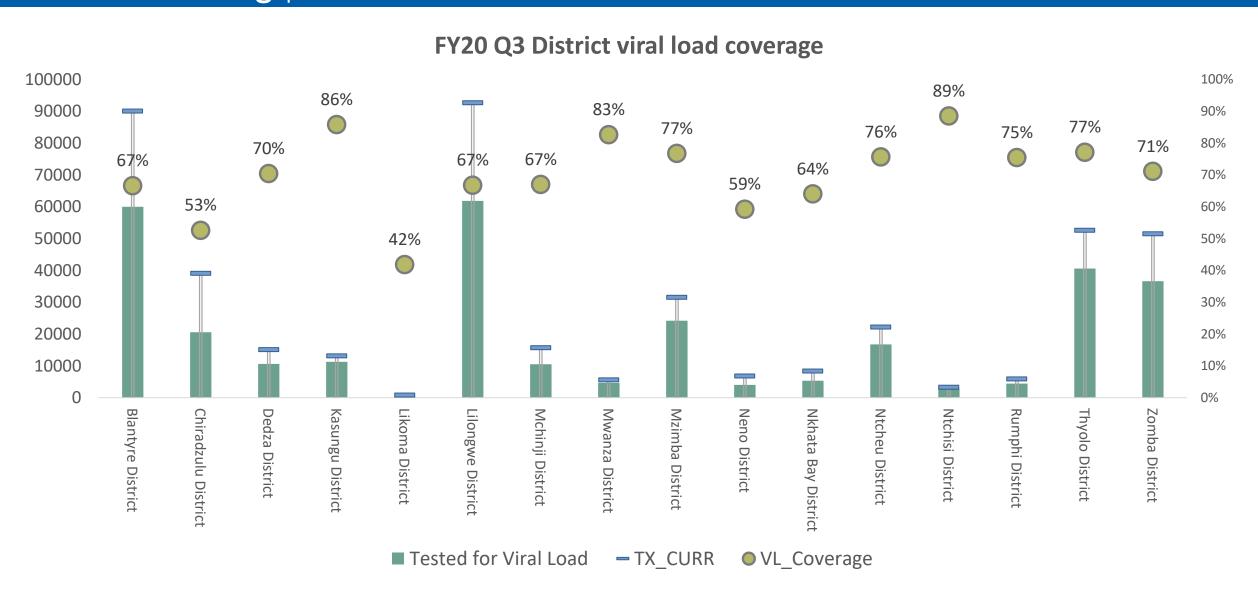
Slight Improvements in Missed Appointment Tracing Demonstrated Two Weeks Before & After Suspension of Physical Tracing was Lifted



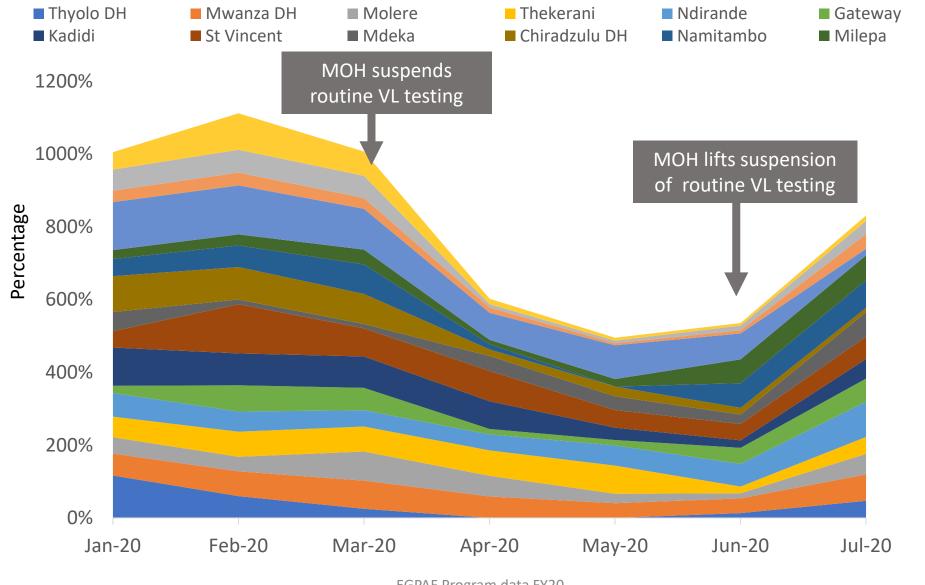
Proportion of TX_CURR Enrolled on Six Monthly Dispensing (6 MMD)in 21 sites by Q4* FY20 Overall gradual increase in % TX_CURR on 6 MMD from Q2-Q4 FY20

	TX_	CURR Q2 F	Y20	TX_	CURR Q3 F	Y20	TX_CURR	Q4* FY20 (A	August 31)
Sites	TX-CURR	# on 6 MMD	% on 6 MMD	TX-CURR	# on 6 MMD	# on 6 MMD	TX-CURR	# on 6 MMD	% on 6 MMD
Limbe	7,649	3,383	44%	7,432	5,553	75%	7,561	6,100	81%
Ndirande	5,888	2,277	39%	5,946	4,079	69%	5,875	4,626	79%
Makata	668	75	11%	712	514	72%	736	557	76%
Bangwe	5,583	512	9%	5,676	3,208	57%	5,840	4,400	75%
Matiya	2,436	706	29%	2,522	1,749	69%	2,554	1,920	75%
Chilomoni	4,104	954	23%	4,104	2,872	70%	4,140	3,111	75%
Mpemba	1,773	543	31%	1,773	1,130	64%	1,841	1,347	73%
Mdeka	1,512	791	52%	1,539	1,181	77%	1,548	1,107	72%
Mangunda	3,174	322	10%	3,052	2,061	68%	3,143	2,186	70%
Namitambo	5,263	2,122	40%	5,264	3,400	65%	5,361	3,731	69%
Bvumbwe	5,200	1,632	31%	5,133	3,691	72%	5,177	3,519	68%
Mlambe	6,534	4,760	73%	6,586	4,350	66%	6,576	4,399	67%
Khonjeni *	3,971	1,339	34%	4,073	2,780	68%	3,882	2,491	64%
Bilal Clinic*	3,671	826	23%	3,670	2,470	67%	3,674	2,453	67%
South Lunzu*	2,841	1,065	37%	2,732	1,633	60%	2,873	1,620	56%
Chiradzulu DH	6,408	1,797	28%	6,416	3,243	51%	6,416	3,369	53%

Low viral load coverage in most districts during FY20 Q3 following the suspension of routine testing | 68% for all PEPFAR IPs



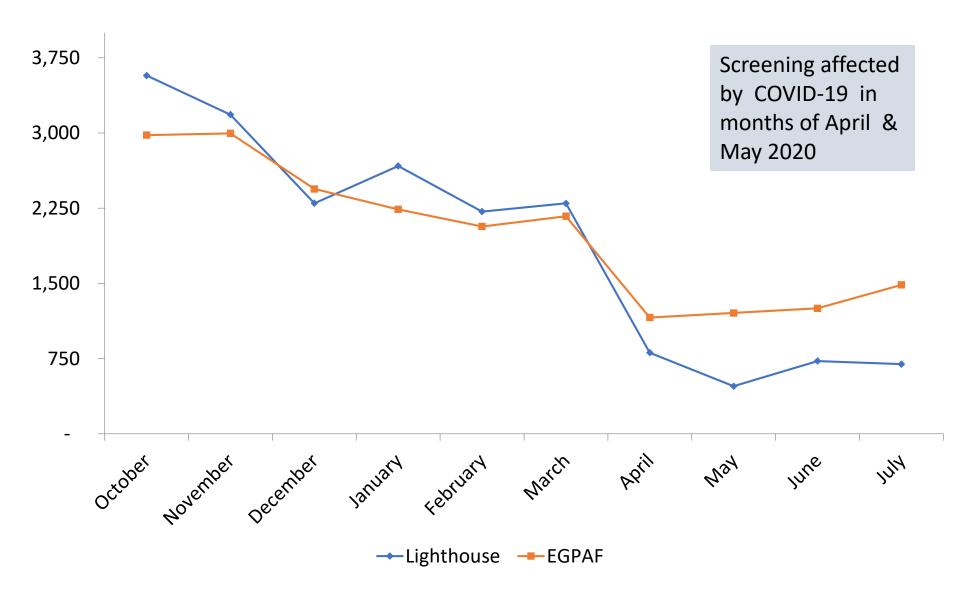
QI Initiative to improve Viral Load Testing | Increasing Uptake in 16 Health Facilities



Interventions:

- Use of screening tool to optimize the identification of VL eligible clients
- Redesign client flow to allow sending clients for VI collection before ART refill.
- Health talks on VL testing and demand creation
- Allocation of specific VL sample collector on weekly basis
- Site level targets for catch up testing

FY20 VIA Screening affected by COVID-related suspension



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Key lessons learned

COVID-19 impacted HIV service provision in Malawi through interplay of three key processes:

- MOH stopped certain activities via policy directives (e.g., in-person PITC in OPD, routine VL testing, VMMC) for a period
- 2. Implementing partners were affected by COVID-19 outbreaks
- Clients could not access needed services due to closed health facilities and problems with transport

Solutions and next steps:

- Development of catch-up plans to address progress shortfalls
- Responsive adaptation of patient flow and reinforcement of COVID-19 risk mitigation measures
- Continued monitoring of performance against weekly targets at site level
- Importance of outreach services for HIV case finding and retention
- Continue granular site management to track catch-up activities
- Virtual site visits

Thank you!

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