COVID Impact on ART Program in South Africa

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HARD REPORTED TO AND PREVENTION

19 August 2020

Outline

HIV and COVID-19 epidemics in South Africa
 Impact of COVID-19 on health services in South Africa
 CDC response to COVID-19 in South Africa
 Site-support/monitoring in the context of COVID-19

HIV and COVID-19 Epidemics in South Africa



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South Africa HIV Epidemic & Program Context

HIV in South Africa

- Total Population: 58.7 million
- PLHIV: 7.7 million
- Adult (15+) HIV prevalence: 18%
- New HIV infections: 166,000 per year



HIV statistics reported are projections for mid-2020 Source: Thembisa 4.3 (June 2020)

HIV prevalence by district, Sept 2020



South Africa HIV Epidemic & Program Context

2nd 90 remains largest barrier to epidemic control in South Africa, with an estimated 2.4 million PLHIV not on ART



Source: Thembisa 4.3 (June 2020)



Estimated PLHIV not on ART, by age and sex



ART Coverage is the **highest in women 25+** and in **men 40+** years of age

ART Coverage is lower in men compared to women, with lowest coverage in men 20-29 years of age.

More than 2/3 (69%) of untreated PLHIV are over 30 years old, and 50% are over 35 years old

South Africa PEPFAR Program Recent History



- PEPFAR South Africa is supporting a 2-year surge in FY19 and FY20
- Approximately 50% of the PEPFAR treatment program is supported by CDC in South Africa
- The program increased TX_CURR by over 700,000 in the first 18 months of the surge
- Gains were achieved through implementation of the "Siyenza" program, which involves intensive site support and close monitoring of core program areas

South Africa has the 5th highest global burden of COVID-19



DNEDMED CASES 50

- There have been over 590,000 cases and over 12,000 deaths since the beginning of March
- There have likely been 24,000 deaths due to TB over the same time period

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RECOVERIES: 9187

TT

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2020

180

160

COVID-19 in South Africa



COVID-19 Cases, Tests, Hospitalizations, and Deaths

Daily case count with 7-day moving average, South Africa



COVID-19 hospital admissions in sentinel facilities, by health sector, South Africa



https://www.nicd.ac.za/diseases-a-z-index/covid-19/surveillance-reports/ https://ourworldindata.org/coronavirus

COVID-19 tests, by health sector, South Africa



100

50

COVID-19 by Province

Daily Case Count, by Province



Change in % Positive, by Province

25%

2 Aug-8 Aug

- There are Provincial differences in the timing of the epidemiologic peak; Western Cape led the epidemic, and has been followed by Gauteng, Eastern Cape, and KZN.
- The decline in cases partially explained by shift to focused testing strategy and long turnaround times.
- However, decline in proportion positive in WC, EC, KZN, GP and decline in COVID-19 hospital admissions (not shown) indicate improvement.

Impact of COVID-19 on Health Services in South Africa



Impact Of COVID-19 Felt Across The Health Sector



Key lockdown statistics:

- Facility attendance dropped from 41% in children <5yrs and 27% overall in March 2020
- ~ 17% of CDCsupported facilities were closed at least 1-day due to COVID
- TB, VL, and CD4 tests all reported
 significant declines during the month of April
- Increased HCW infections among DOH and partner staff from May to June

tralised HIV VIRAL LOAD

Impact of COVID-19 on Treatment Initiation

1st day of COVID-19 Lockdown



- HTS_POS and TX_NEW dropped from the first day of lock down
- Proxy linkage remained high
- TPT initiations also decreased



Effects of COVID-19 on Retention on ART



- Data from CDC-supported Siyenza sites
- Most substantial declines noted corresponded with start of lockdown on 27 March and continued through May 8th
- Variable recovery and worsening of status afterward dependent on significance of outbreak in affected province

Supply Chain Roses and Thorns

- TLD transition began in Dec 2019 and moved very slowly for the first 3months of implementation
- Prior to COVID-19 PEPFAR team working closely with NDOH on 3MD, 6MD, and accelerating roll-out of TLD
- In the setting of COVID, TLD uptake initially increased & 3MD was launched
- COVID-related challenges remain significant with critical shortages of both first-line ARVs now making it difficult to continue with the rapid roll-out of MMD





South Africa's poor scramble for anti-HIV drugs amid virus

JOHANNESBURG (AP) — When her regular clinic ran out of her government-funded HIV medications amid South Africa's COVID-19 lockdown, Sibongile Zulu panicked. A local

CDC Response to COVID-19 in South Africa



Coordinated USG Response To COVID-19

- Close interagency collaboration on leveraging of PEPFAR resources and application for supplemental funding
- Initially instituted weekly calls with partners to discuss PEPFAR guidance and other updates
- PEPFAR community healthcare workers (CHW) supported the DOH in nationwide household COVID-19 campaign integrating HIV/TB education and screening
- Comms campaigns updated to incorporate COVID-19
- eLABS mobile application updated to include COVID-19 tracking; now rolling out to more than 2,500 PEPFAR-supported facilities
- CDC deployment of >30 staff to national and provincial incident management teams to support development of guidance, epidemiologic analysis, data support, etc.





PEPFAR CHWs Support for an Integrated Response

Staff and Materials

- 3,538 PEPFAR CHW's provided no-touch household screening
- 5,417 PEPFAR devices distributed to partner-supported CHWs
- T-shirts, caps, and educational materials in 11 national languages, distributed nationwide

• Training

- Guidance documents, presentations and videos for COVID-19 household screening developed
- DSPs trained in COVID-19 Basics, COVID-19 response,
 Conducting home visits, Personal safety and infection control

• Accomplishments (27 March to 11 June):

- 240,027 households visited
- 652,982 individuals screened
- Referrals
 - 4,084 referred for COVID-19 testing
 - 13,677 referred for HIV/TB testing
- Distributions
 - 287,374 condoms distributed
 - 345 self-screening kits distributed



27-Mar 30-Mar 5-Apr 8-Apr 8-Apr 11-Apr 11-Apr 20-Apr 23-Apr 23-May 8-May 11-May 11-May 12-May 23-May 22-May 22-May 23-May

Reporting Date

500

0

eLABS to Monitor VL and COVID-19 Results Return



Latest Update

2020/08/18 (11:02

Total Tests

1,436

Provincial Deployer Support

NORTH WEST

21,837 cases 542 per 100,000

2 deployers | 79 person days

Key accomplishments: [1] Conducted data analysis for provincial and national reporting. [2] Trained staff on guidelines and reporting processes. [3] Conducted field visits to assess data process flow and improve data quality.

WESTERN CAPE

99,959 cases 1,461 per 100,000

4 deployers | 154 person days

Key accomplishments: [1] Supported case and hospitalization surveillance efforts. [2] Standardized reporting tools. [3] Developed daily situational reports.

EASTERN CAPE

82,401 cases 1,228 per 100,000

4 deployers | 143 person days

Key accomplishments: [1] Developed a data reporting tool for contact tracing. [2] Trained contact tracing teams. [3] Conducted data analysis and supported development of epidemiology daily reports.



LIMPOPO

10,546 cases 176 per 100,000

2 deployers | 82 person days

Key accomplishments: [1] Revised screening tools and plans. [2] Supported development of guidelines for return to work/school and IPC. [3] Facilitated trainings on mapping, screening, data flow, and reporting.

GAUTENG

192,767 cases 1,270 per 100,000

4 deployers | 151 person days

Key accomplishments: [1] Supported development of guidelines and trainings for prisons, schools, and transportation hub. [2] Conducted data analysis and hotspot mapping. [3] Supported development of data quality strategy.

KWAZULU-NATAL

98,068 cases 869 per 100,000 3 deployers | 165 person days

Key accomplishments: [1] Streamlined community screening and contact tracing tools. [2] Worked on district plan for cluster outbreak and management of hotspots. [3] Provided epi and surveillance district support.

FREE STATE

28,370 cases 983 per 100,000

2 deployers | 89 person days

Key accomplishments: [1] Enabled electronic data entry of cases lists and case investigation tools. [2] Provided TA on contact tracing efforts. [3] Prepared provincial reports.

Interventions to Improve Treatment and Retention



Enhanced IPC To Prevent COVID-19 Infections

In April and May, PEPFAR team worked with IAS to host IPC webinars for implementing partners

> Focused on facility flow, mgmt. of patient ques; screening, triage, and separation; and social distancing,



Subsequently CDC developed dashboard of key IPC minimum requirements that partners now report on monthly

> Assesses handwashing; availability of PPE, screening, triage, and separation; cleaning; and social distancing



Average score (%) amongst facilities assessed (see "IPC Minimum Requirements")



Improving infection control during COVID-19

Utilized COVID-19 specific funds to roll-out innovative **stand-alone handwashing stations** through PEPFAR implementing partner





- Handwashing stations reach many people quickly in public places near health facilities
- Enables the client to be part of the solution
- Aurum deployed 15 units with >50 more planned
- Each unit does 20,000 washes before needing water change
- Excellent initial user and facility leadership feedback



Improving HTS Services in Setting of COVID-19



HTS provided outside facilities through gazebos and mobile units – minimizing entry into clinics for clients only needing an HIV test

Adapting HTS programming and facilities to govt directives or policies on social distancing-





Ensuring adequate PPE is provided for staff and adjusting the facility clinic flow Stronger partnership with UNITAID for **HIV Self Screening** mentorship for our IP's and donated kits during shortages



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Enhanced Patient Outreach to Improve Retention

- Flyers created per province with contact numbers per district to help link people separated from home to treatment
- DOH and Partners have enhanced all patient engagement through remote channels, including WhatsApp groups and SMS
 - Policing Forum Say hi to your new Facebook frie Ward 21 community Let us Fight Corona Virus cere latseba this Virus its destroy the immune system/ Masole a Mmele this Saturday Bophelong OD Clinic va bulwa if Date va hao va dipisi tsa Chronic e fitile tioho rtlo ofa so that immune system ya hao ebe shap nd we also Offer HIV/AIDS texting hore we taebe immune system ya hao e jwang piz share the message three you Apr 11 - Bent from Mobik D Like A Share 00 2 Shares Madume abuti mona 3816 k5 Apr. 11 Sent Incen Mobili Abuti ke neke IIa ka hore ke felletswe ke dipilisi tsa hiy okase nthuse its only 4 one salis or etioba every satis 4 Apr 11 - Bent from Mobili iose hu default follow up date?? < 0 0



- Community Facebook Pages have been used to:
 Communicate facility
 - service accessEngage with patients
 - who message privately about returning to care

Interventions to Improve Treatment and Retention



Scaling-up Patient-Centered Care for ART Clients



NDOH Circulars/SOPs for ART clients during COVID

				r						
	health Destinant: Republic of South Africa								NDO	
	SyNCH CHANGE CONTROL FORM			L FORM	TITLE	CCMDD: HOME DELIVERY SERVICE				
	The purpose of this change control form is to provide the National Departme standardised process to manage change requests for the SyNCH system. Use				INSTITUTION	DEPARTMENT OF HEALTH			and	
			ange requests for the SyNe s on this standard form and		REFERENCE NUMBER	CCMDD SOP 22	EFFECTIVE DATE	June 2020		
	of Health for consideration.				PURPOSE Outline the CCMDD Home Delivery Model					
	Note: This is purely a mechanism for logging and recording requests. All reque formal and rigorous change control review process.									
					PERSONS AFFECTED					
	Requested	Ms. S. Mazibuko	Date	28 April 2020	Province/District Facility staff/ Authorised prescriber/ CCMDD Champion					
	Ву		Dute	20 April 202	 CCMDD service provider PuP service provider 	ider				
	Facility	N/A District		Province	 Pup service provider Home delivery Courie 	ars				
	Request No	0001	Name of Request	PMP Upliftn						
	Change Request	Amend extension of P	MP upliftment to 14 days		health					
	Change Reason* To provide the patient an additional week to collect their medicine COVID-19 lockdown constraints				s during the STANDARD OPERATING PROCEDURE					
						TITLE	CCMDD OPERATIONS DURING COVID-19 NATIONAL DEPARTMENT OF HEALTH			
🐯 h						INSTITUTION				
Dep Heat	ntment: In UBLIC OF SOUTH AFRICA					REFERENCE NUMBER	CCMDD SOP 24	EFFECTIVE DATE	MARCH 2020	
STANDARD OPERATING PROCEDURE					PURPOSE					
TITLE			FOVIR & LAMIVUDIN		GRAVIR (TLD) -	Outline the process to be for pandemic	llowed by all stakeholders	with regard to CCMDD opera	tions during the COVID-19	
PATIENT REGISTRATION OR TRANSITION					PERSONS AFFECTED					
INSTITUTION NATIONAL DEPARTMENT OF HEALTH					Authorised prescribers CCMDD service providers CCMDD PuP service providers					
REFERENCE NUMBER CCMDD SOP-16 EFFECTIVE DATE I			December 2019							
PURPO	PURPOSE					Districts	·			
Emtrici	tabine + Efavi	renz) to TĽD (Teno	dult patients on ART fro fovir + Lamivudine + I n of new patients into C	Dolutegravir)		 Facility pharmacy period Health Facilities NDoH Provinces 	ersonnel (pharmacist/PA)			
PERSO	NS AFFECTE	D								
•	Health Facility : Authorised Pre Patients CCMDD servic									

NDOH streamlined circulars and SOPs to improve access and retention during COVID-19

- Allowing CCMDD clients extra days to pick up ART
- Allowing for 12-month rescripting of ART
- Encouraging new and current ART patients to switch to TLD
- Permitting home delivery of ART

PeleBoxes as the Preferred External Pick-Up Point



Results

- 18 Peleboxes installed in all Aurum-supported Districts (12 in EKN; 4 in BOJ;1 in DKK and NMM, respectively)
- Majority of Pelebox users are men
- Patient Survey in Q1:
 - >59% of all users stated Pelebox as preferred mode of external Pick-up Point
 - Preferred by decanting staff

Home Delivery of ART to Reduce LTFU



Campaigns Newly Launched to Regain Losses

- The Zenzele campaign focuses on welcoming patients back to care
- The **DablapMeds campaign** was launched with COVID messaging to promote CCMDD and alternative PuPs outside of the facility.
- "Dablap" is a commonly used colloquial term for a shortcut



Site-support/Monitoring in the Context of COVID-19



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Siyenza-Driven Increases in TX_CURR Since FY19

Increase in TX_CURR in PEPFAR SA program quarter-on-quarter from FY19Q1 - FY20Q2



Source: PAWS Siyenza-MER Dossier, accessed 11 June 2020



17 YEARS OF SAVING LIVES THROUGH AMERICAN GENEROSITY AND PARTNERSHIPS

Adapted Strategies In Light Of COVID-19

- During **biweekly Virtual Visits**, Siyenza Site Leads focus on 6 key priority areas:
 - Recommended action items
 - Mitigation plans and best practices
 - Challenges that require intervention from district, province, or national DOH
- Virtual Visits continue to involve a variety of stakeholders, including:
 - Facility staff, Operations Managers, and Sub-district and District Management Teams





CDC's Siyenza Support Transitioned to 100% Virtual





3,806 CDC total visits/calls from Feb 2019 – Aug 2020





17 YEARS OF SAVING LIVES THROUGH AMERICAN GENEROSITY AND PARTNERSHIPS

Adapted Siyenza Approach in Light of COVID-19

New strategies make virtual visits more efficient and feasible

1. Maximizing a variety of platforms,

- Including WhatsApp, Zoom, Skype, Webex, etc.
- Often low bandwidth settings
- Ensures consistent communication

2. Establishing new routines

- Requires flexibility, patience, creativity
- Teamwork Site Leads are working together, allowing facilities to learn from the strengths of PEPFAR Site Leads

3. Employing a new "roundtable" approach

- Multiple sites participate on the same Virtual Visit
- Many sites face similar challenges
- New innovation to cross-pollinate ideas
- Receiving positive feedback from facility staff who rarely have the opportunity to interact and learn from colleagues at other facilities



Monitoring COVID-19 Impact on HIV Program

• Weekly and Monthly data from CDC-supported Siyenza facilities

- Trends in case identification, treatment initiation, total on treatment
- Total number of patients visiting facilities

 New monthly HIV-COVID indicators to track impact on partner, sites, and changes in approaches

- Site closures
- Partner staff affected by COVID
- Novel approaches employed under COVID

National data sources tracking trends in access to services

- Laboratory test data from SA National Health Laboratory Services (NHLS)
 - Trends in HIV VL tests completed, Infant PCR tests
- National health indicator data

COVID-19 Dashboard



 On a monthly basis, partners report key process indicators and program outputs at district (PSNU) level.

 Program staff use this data to understand the impact of COVID on the HIV program and scale-up of priority activities

COVID Tracker

Summary of CDC-SA Response To COVID-19



- Providing Clinical, M&E, and admin staff to support national and provincial incident management
- Working closely with the National Department of Health to Scale-up ART Provision Outside of Facilities through both Existing and Innovative New Approaches
- Provided Key Leadership in the Area of Infection Prevention and Control

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- Deploying the innovative eLABS mobile application at more than 2,500 PEPFAR-supported facilities to track COVID-19 specimens and results
- Monitoring through remote Siyenza, COVID-specific dashboards to allow rapid feedback and implementation of new solutions



Thank you for your attention



The American Government in partnership with the South African Government to wage war against HIV and COVID-19 pandemic