



TARGETS UPDATE

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HIV and COVID-19: Drawing Lessons from Dual Pandemics

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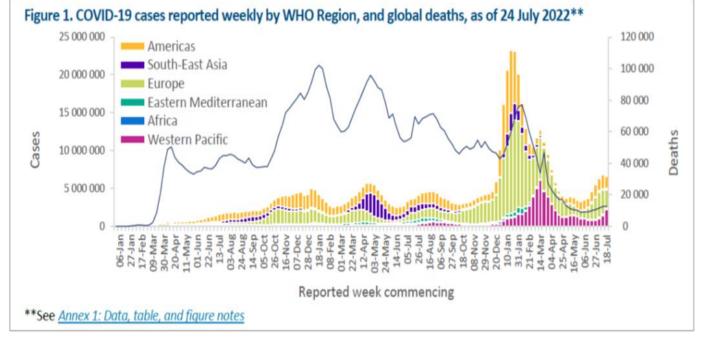


COVID-19 Situation: COVID-19 is not over

Globally, as of 4:28pm CEST, 27 July 2022, there have been 570,005,017 confirmed cases of COVID-19,

including 6,384,128 deaths, reported to WHO. As of 26 July 2022, a total of 12,248,795,623 vaccine

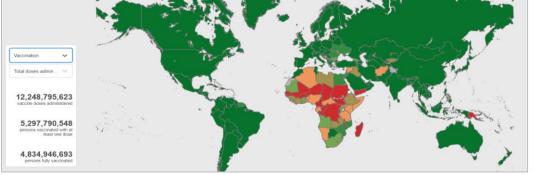
doses have been administered.



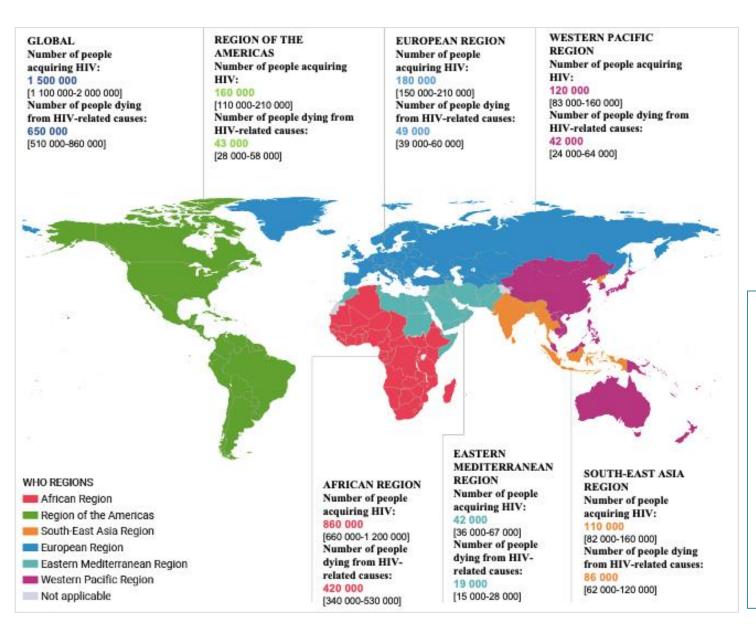


Organization





Global and regional HIV epidemic, 2021





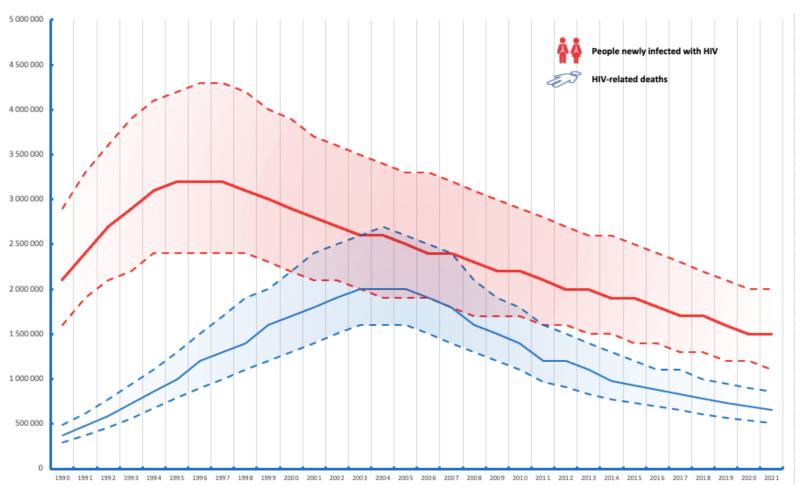


New infection every two minutes in AGYW 2021

- Eastern Europe and central Asia, Latin America, and the Middle East and North Africa have all seen increases in annual HIV infections over several years
- New HIV infections are rising where they had been falling
- New infections dropped only 3.6% between 2020 and 2021, the smallest annual decline since 2016

Decline in number of people acquiring HIV and HIVrelated deaths globally over time





- Decline in number of new HIV infections has stagnated.
- Will miss the 2025 target unless treatment coverage is accelerated and effective prevention efforts reinvigorated and barriers to inclusion are removed.

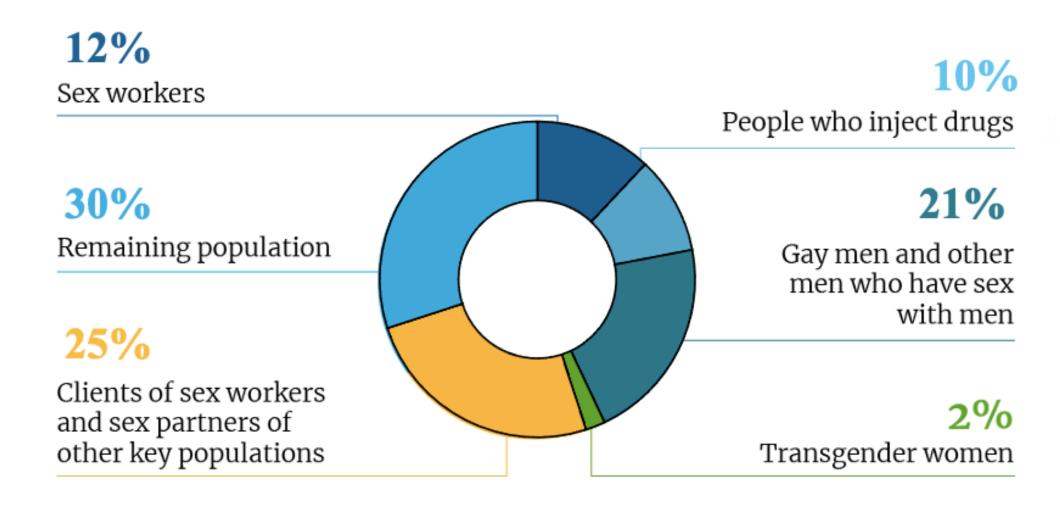
2021 new HIV infections 1 500 000 [1 100 000-2 000 000]

2021 AIDS-related deaths 650 000 [510 000-860 000]

Source: UNAIDS/WHO estimates

Distribution of acquisition of new HIV infections by population, global, 2021

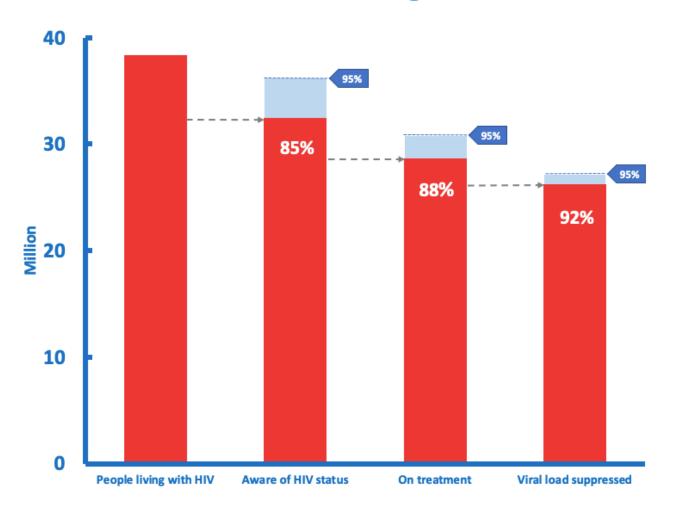




Source: UNAIDS special analysis, 2022

HIV service cascade, global, 2021





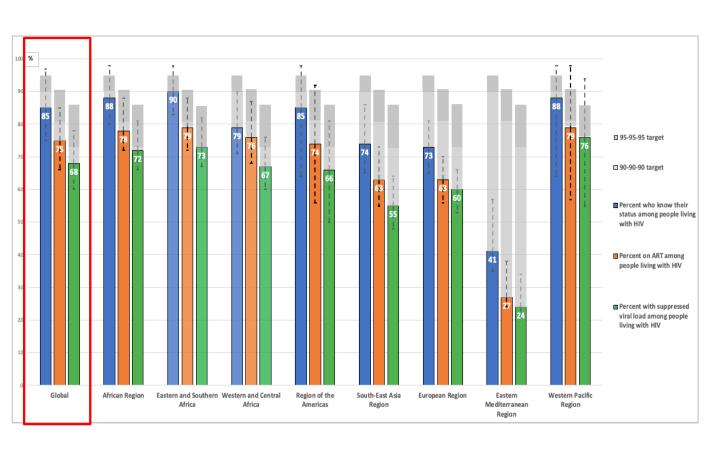
95-95-95 targets by 2030

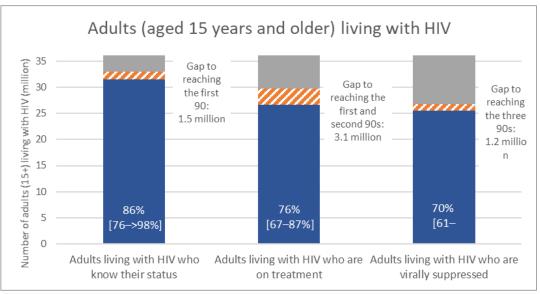
- 95 percent of people living with HIV know their status
- 95 percent of people living with HIV who know their status are receiving treatment
- 95 percent of people on treatment have suppressed viral loads
- Number of people on HIV treatment grew more slowly in 2021 than it has in over a decade

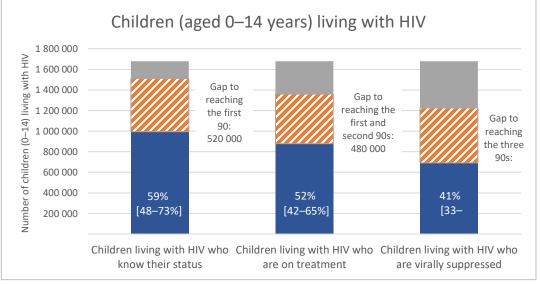
The denominator is the value from the previous bar in the last three bars. For example, 88% of people who were aware of their status were receiving ART.

Progress towards 90–90–90 and 95–95–95 targets of the HIV service cascade, by WHO region, 2021







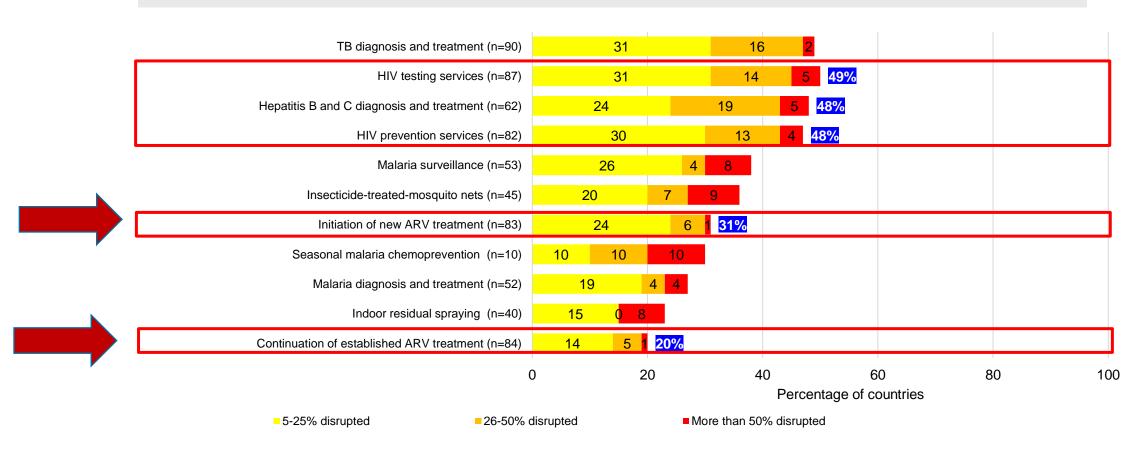


Source: UNAIDS/WHO estimates

Percentage of countries reporting disruptions in communicable disease (TB, HIV, hepatitis and malaria) services during the COVID-19



About half of countries report disruptions HIV testing and prevention services, and hepatitis B & C diagnosis and treatment

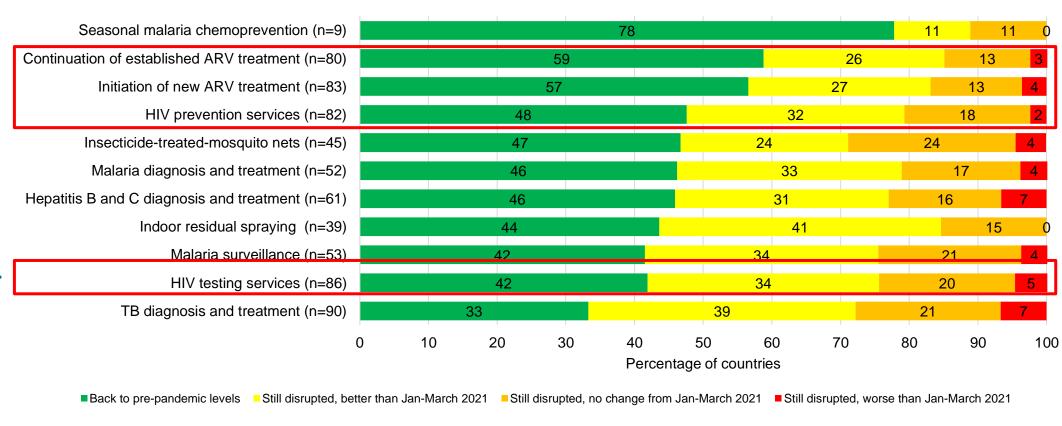


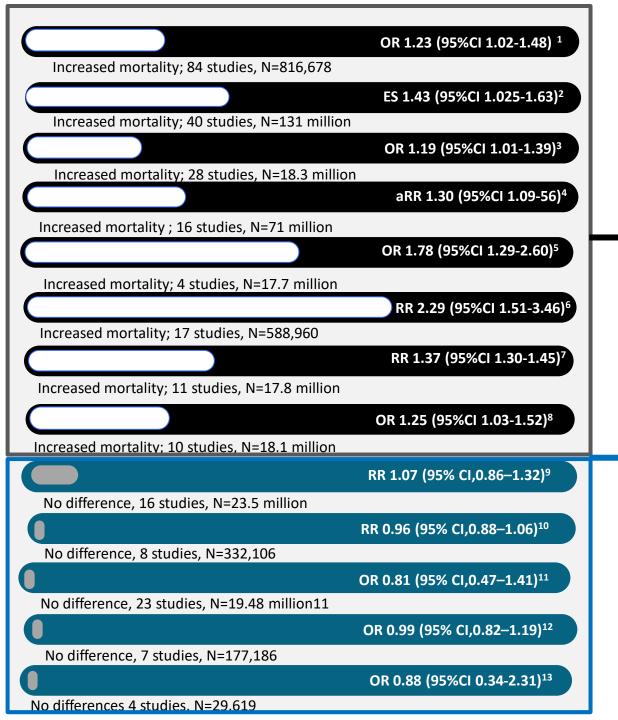
pandemic in Q4 2021

Perceptions of levels of disruption and recovery in communicable disease services during the COVID-19 pandemic in Q4 2021 as compared to Q1 2021



About half of countries report disruptions HIV testing and prevention services, and hepatitis B & C diagnosis and treatment





HIV and COVID-19 mortality: a review of systematic reviews and meta-analysis

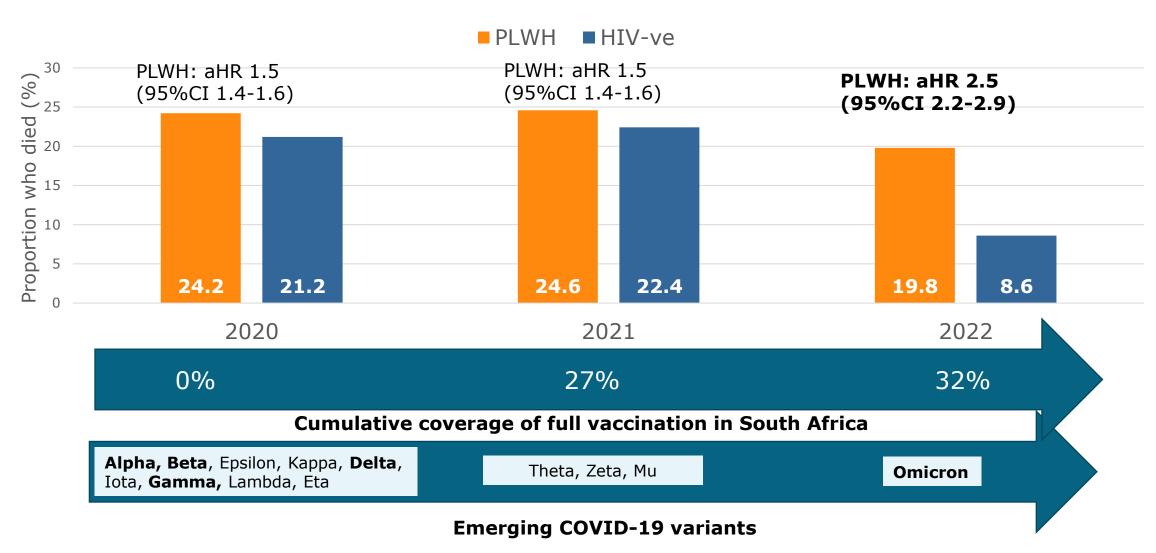
- 8/13 reviews reported an increased risk of COVID-19 mortality in PLWHIV (ranging from 19% to 129%)
- 5/13 reported similar mortality risk
- No review showed a reduced risk among PLWHIV



References: Wang Y et al¹; Han X et al²; Hariyanto T³; Wang Y et al⁴; Ssentongo P et al⁵; Oyelade T et al⁶; Moradi Y et al⁷; Dong Y et al⁸; Dzinamarira T et al⁹; Liang M et al¹⁰; Danwang C et al¹¹; Sarkar S et al¹²; Ssentongo P et al¹³;

COVID-19 mortality over time by HIV status

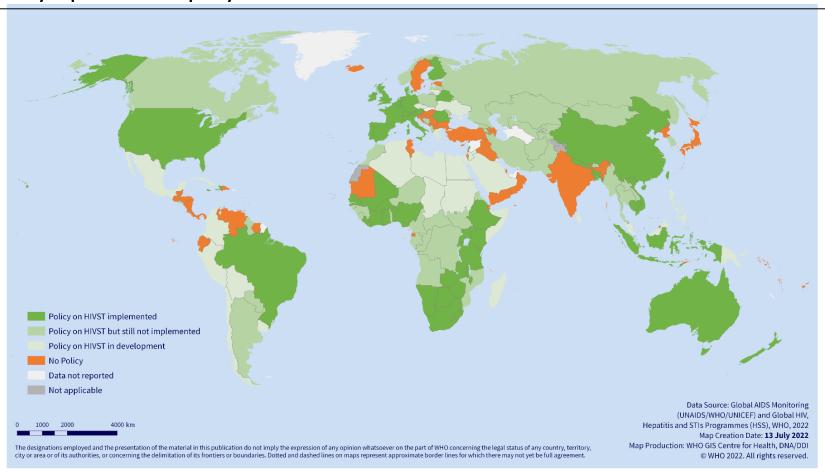




National policy on HIV self-testing and implementation status, July 2022



By July 2022, 98 countries adopted HIV self-testing policies in their national guidelines, with 52 countries routinely implemented the policy.

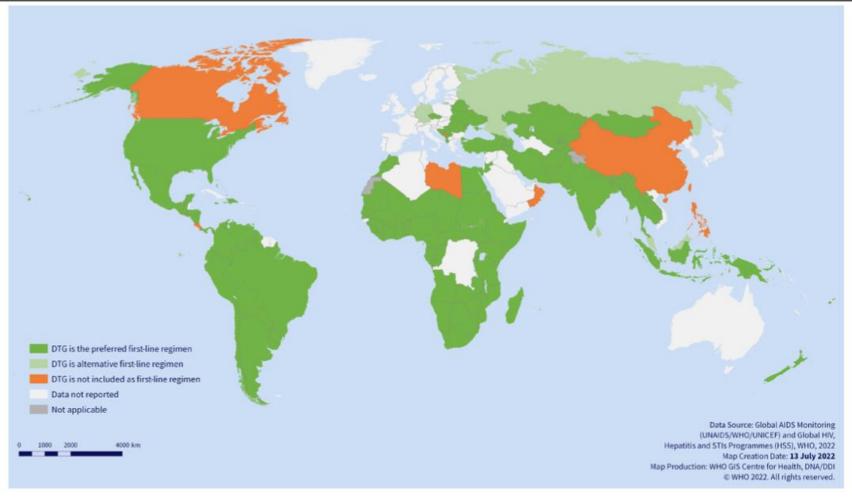


Source: Global AIDS Monitoring (UNAIDS/WHO/UNICEF) and Global HIV, Hepatitis and STIs Programmes (HHS), WHO, 2022

Adoption of TDF+3TC (or FTC) + DTG as the preferred first-line antiretroviral combination for treatment initiation in national guidelines for adults and adolescents, July 2022



By July 2022, 108 countries (88%) adopting DTG as part of the preferred first-line antiretroviral therapy for adults and adolescents, an 80% increase from 60 countries in 2020 when data for this indicator was first collected.



Source: Global AIDS Monitoring (UNAIDS/WHO/UNICEF) and Global HIV, Hepatitis and STIs Programmes (HHS), WHO, 2022

Adoption of DTG regimens as the preferred treatment option in national guidelines for all infants and children living with HIV, July 2022



By July 2022, DTG has been adopted as the preferred treatment initiation option for infants and children in 55% (60/110) of reporting countries, this represents a 71% increase from 2020, when adoption of DTG as the preferred treatment initiation option was reported by 35 countries.



Source: Global AIDS Monitoring (UNAIDS/WHO/UNICEF) and Global HIV, Hepatitis and STIs Programmes (HHS), WHO, 2022

National policy on routine viral load testing for monitoring ART and implementation status among adults and adolescents living with HIV in low- and middle-income countries, July 2022



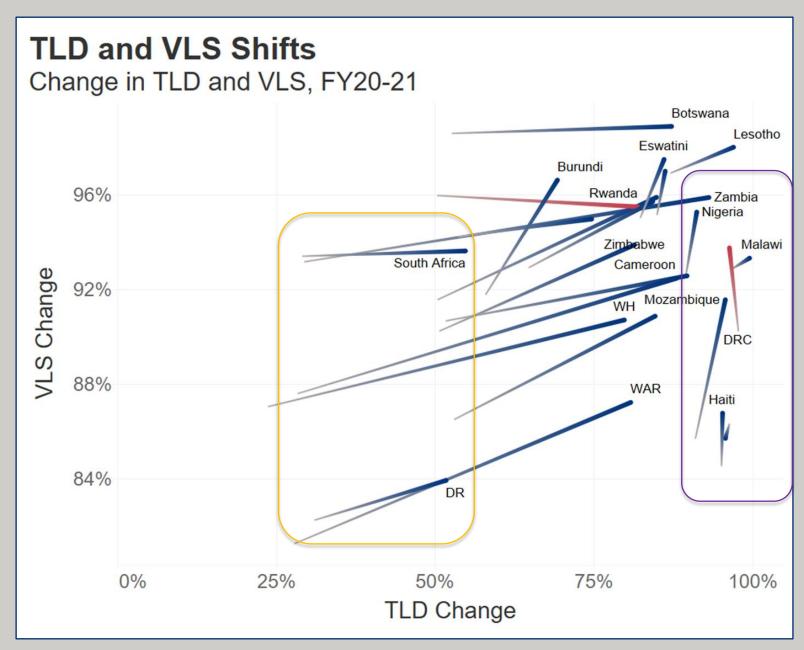
By July 2022, routine viral load monitoring for adults and adolescents has been implemented countrywide in 74% (91/123) of reporting low- and middle-income countries; of the remainder almost half (47%, 15/32) reported implementation in many (50–95%) treatment sites



Source: Global AIDS Monitoring (UNAIDS/WHO/UNICEF) and Global HIV, Hepatitis and STIs Programmes (HHS), WHO, 2022

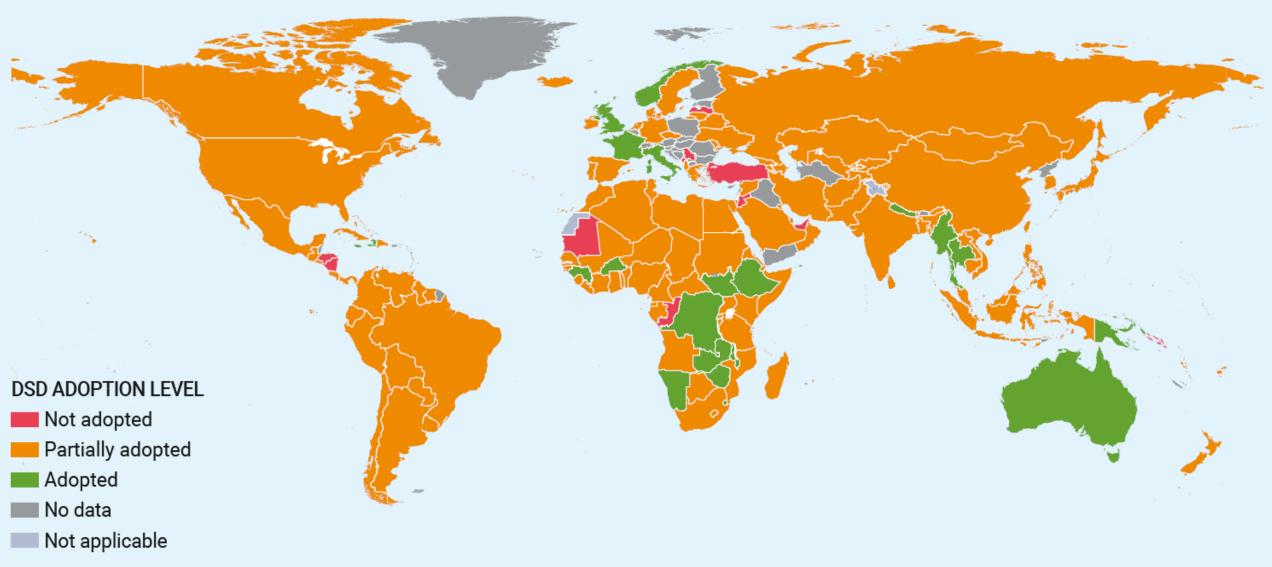
Overall impact of a guideline change: significant improvements to the VLS

- Transition to TLD was followed by near universal improvements in viral load suppression
- Due to better tolerance/adhesion?
 Getting rid of NNRTI resistance
 issues? Combination?
- Early adopters (such as Nigeria, Haiti, and DRC) are still seeing populationlevel improvements in BSSs
- Slightly flatter curves for the countries furthest behind in adopting TLDs



Globally, majority of countries have partially adopted at least 1 DSD model in their national policies, by end 2021

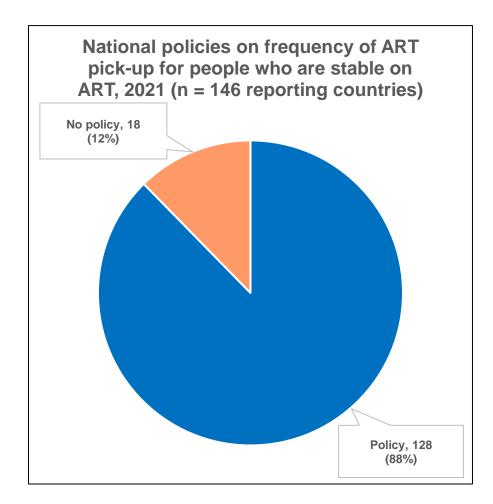


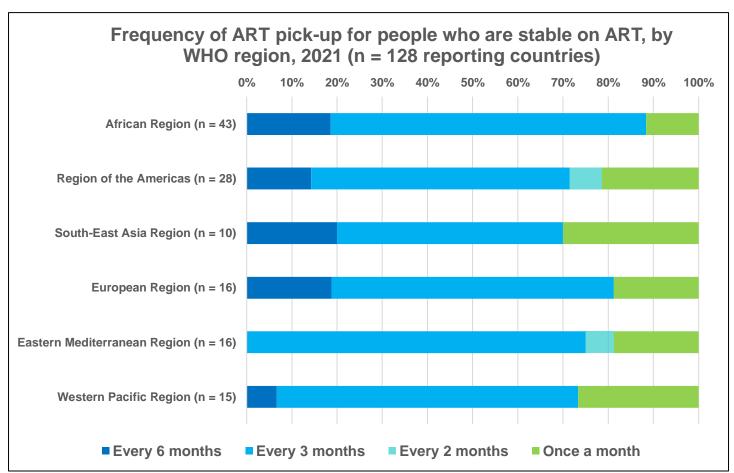


Source: HIV Policy Lab, 2021.

National policies on frequency of ART pick-up for people who are stable on ART, 2021

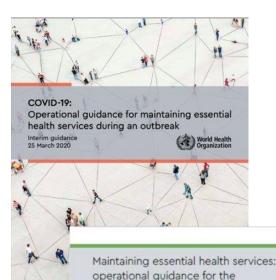






Maintenance Essential Health Services





COVID-19 context

WHO Operational guidance for maintaining HIV services in the COVID-19 context

- Emphasize same-day start for ART including starting outside of a facility (e.g. during outreach or when attending mobile services).
- Extend to 6-monthly dispensing
- Promote and scale-up of models of ART dispensing outside the facility (community)

Countries make pivotal changes to maintain HIV services during the COVID-19 pandemic and these will likely build long-term benefits

Resilient responses includes:

- DSD models and multi-month provision of meds, community pickup, use of ehealth and mhealth technology, & strong community engagement
- Expanding eligibility and transitioning from 3 to 6 months supply when possible
- Embracing out of facility (community) models,
- Less frequent visits to a health facility with less frequent medication pick-ups,
- Integrating/aligning ART refills with other health services (preventive and chronic medications such as TB, TPT, AHD, NCDs, FP)
- Virtual Case Management
- Improved focus on people-centered care



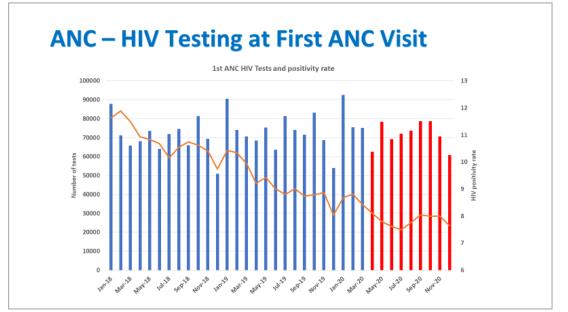


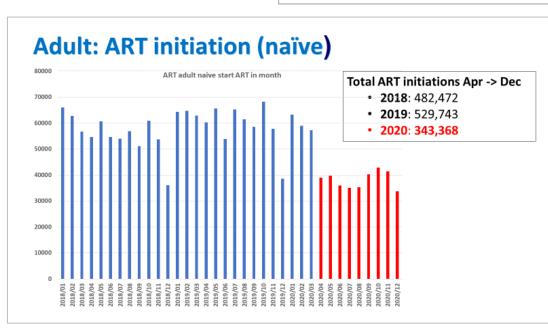
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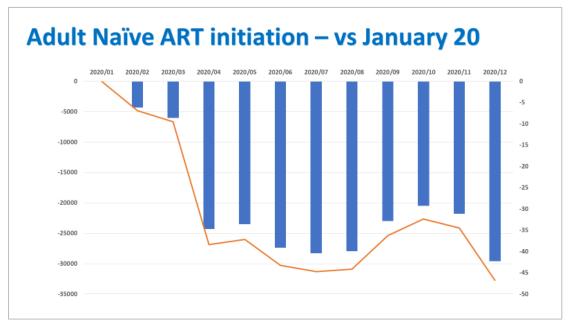
Links: https://www.who.int/news-room/detail/01-06-2020-maintaining-essential-health-services-new-operational-guidance-for-the-covid-19-context

Reduction in testing and ART initiation during C19







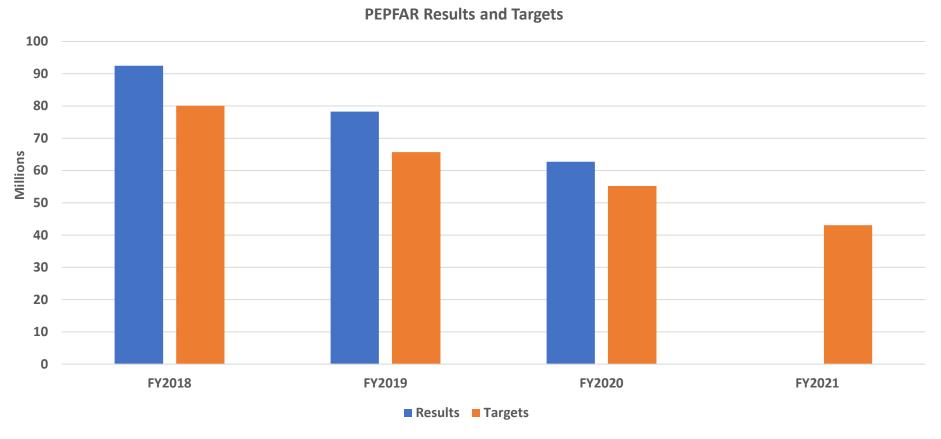






Change in PEPFAR HIV testing strategy

Transitioning from a wide-scale HIV testing services to more targeted testing – 35% reduction in PEPFAR testing volume targets between 2018 & 2020





Continuation of testing services during the COVID-19

pandemic





- Focus on maintaining access to treatment and care
 - MMD, pharmacy/community pick up, home delivery, keeping PHC open, virtual and digital platforms for remote support and appropriate PPE for health workers

But need to also try and maintain testing services

Planning needed to avoid stockouts

HIV testing uptake

- avoid losing substantial HIV, STI and Hepatitis gains
- support people with who are undiagnosed or unlinked to treatment
- Maintain prevention services for those at high ongoing risk

*Some reports highlighted **COVD-19 affecting HIV testing** services - w/ HIV testing volumes and total positive

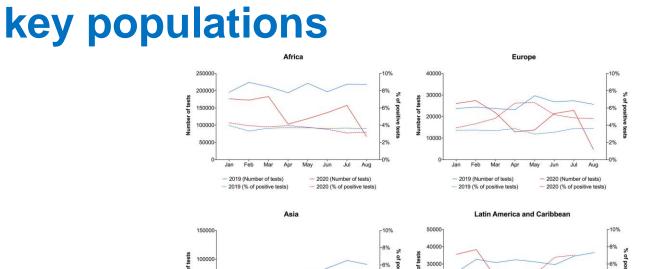
diagnoses Biggest contributor to reductions and in

HTS likely pre-dates COVID-19, largely due to scale-up of suboptimal targeted testing in high HIV burden countries

COVID-19 disruptions in all regions, especially

2019 (% of positive tests)





Population	% Reduction in tests HIV tests	% Increase in HIV positive tests
MSM	41.82 (41.58-42.06	2.92 (1.74-4.58)
TG	52.85 (51.60-54.10)	33.37 (30.09-36.78)
SW	58.75 (58.38-59.12)	24.14 (19.54-29.22)
PWID	10.74 (10.43-11.05)	49.04 (45.07-53.03)
Migrants	41.3 (41.04-41.58)	63.07 (55.48-70.21)
People in prison	0 (slight increase reported)	0 (slight decrease reported)

Retrospective analysis comparing 2019 and 2020 data, from 44 countries, showed:

- **35.4% reduction in testing** (45% in LAC, 39% in Asia, 35% in Africa and 26% in Europe.)
- 9.5% increase in HIV positivity (44% in Europe, 19% in LAC, 14% in Asia and 2% in Africa)
- Key and vulnerable populations received substantially fewer tests than before, especially SW, TG, MSM and migrants.
- Trends illustrate targeted testing strategies used increasingly during COVID-19
- Catch-up strategies may be needed for some settings and populations missed, especially key and vulnerable populations.

WHO HTS and ART initiation adaptations for COVID-19

Key considerations

- 1. Prepare a **strategy for HTS adaptation** gradual and proportional COVID-19 community circulation and heath system disruptions
- 2. Protect and support **frontline HIV providers**: IPC training, access to PPE, and COVID-19 care and vaccine
- 3. Prioritization of HTS:
 - Individuals suspected of advanced HIV disease
 - Individuals suspected or diagnosed with TB, STI, malnutrition
 - ANC, including retesting, as well as early infant diagnosis (EID)
- **4. ART initiation** should be offered on the **same day** as HIV testing to people who are ready to start and different DSD models available to ensure access
- 5. **Scale-up HIV self-testing (HIVST) especially outside of facilities, including PEP/PrEP
- 6. HTS with higher HIV positivity, e.g., index testing, should be prioritized
- 7. Maintain services for **key population** using **virtual interventions** (outreach and follow-up; information on COVID-19; tracing; virtual consultations and referrals)
- **8. Greater integration** and explore potential **synergy between COVID-19 & HTS**: simultaneous testing (e.g. integrate HTS/HIVST with mask distribution, vaccinations in high HIV burden settings)
- 9. Mitigate impact of COVID-19 on demand side factors: **Promote** use of services; **protect** patients; ensure **access** to essential services
- 10. Data monitoring and operational research: report and scale-up initiatives





HIVST in the COVID-19 context



Key considerations for HIVST

- HIVST can be used to maintain services while adhering to physical distancing guidance.
- Important to strategically implement HIVST prioritizing areas & populations with greatest needs and gaps in testing coverage.
- HIVST approaches include:
 - distribution for personal use and/or sexual and/or drug injecting partners of PLHIV and social contacts of key populations
 - in high HIV burden settings, pregnant women may also provide HIVST kits to their male partners.
- Priority settings to consider:
 - pick up at facilities or community sites
 - virtual platforms (e.g., websites and social media) and distribution through mail
 - pharmacies, retail vendors, vending machines
 - linked to PrEP and PEP programmes











Countries with HIVST programmes

Replace facility with HIVST (to decongest health facilities)

Expand and adapt HIVST

Use HIVST for partner services, workplace and social network testing

HIVST for maintaining PrEP/PEP services

Countries yet to offer HIVST

Lobby for rapid HIVST approval, registration and use

Select HIVST products Start procurement

Start pilot or full implementation in priority populations and geographies

Source: WHO 2020 & STAR 2020: https://www.psi.org/project/star/hiv-self-testing-during-covid-19/



\$1 HIV self-test kit increasing access



Source: <u>WHO 2022</u>, <u>Devex 2022</u>

- 98 countries with HIVST policies & >10 million HIVST kits procured in LMIC annually
 - Yet only 52 countries implementing HIVST with an estimated unmet need of 180 million tests per year
- WHO has now prequalified 6 HIV self-tests, with this new \$1 option in 140 countries more countries will be able to implement
 - MedAccess estimates over next 5 years 8.1 million people will use the test, closing gaps in HIV testing, treatment and prevention
- Cost barriers have been an issue hindering wide-scale implementation in many settings
 - Expanding existing uses for case finding, as well as new opportunities for prevention programmes, broader health system efficiencies and integration efforts (such as in family planning and SRH services)

Scale-up and innovative DSD models made real



Studies show the feasibility of introducing innovative approaches for testing, PrEP and ART, OST and other treatment distribution as possible and important solutions in LMIC settings during COVID-19

Busting myths and delivering services

CW !!!



GLOBAL NETWORK OF



"We have done a 30 minutes radio talk show covering most frequent asked questions around COVID-19 and being young, HIV positive and COVID-19." Africaid Zvandiri, Zimbabwe

Findings from a survey of networks of people living with HIV





PrEP/ART teleconsultation

- In <u>Brazil</u>, PrEP teleconsultation was experienced by 23% of users, with 89% feeling satisfied and 70% reporting high openness and acceptability to PrEP teleconsultation. (Q2 #1)
- In Italy, 24% of patients in a large HIV clinic used teleconsulting, with no patients visiting the unit presented with acute COVID. (Q2 #5)
- In Australia, HIV care continued with 95% and 98% being able to access their HIV provider and antiretroviral therapy (ART), respectively. Telehealth was used by 92% and was largely well received. (Q2 #14)
- Multi-month dispensing: In Egypt, multi-month dispensing of ART was implemented among a small group
 of participants (n=40) who self-reported increased adherence. (Q2#2)
- <u>Telemedicine Pre-Planning:</u> In a randomized trial of visits delivered by telemedicine <u>in the US</u>, HIV patients were randomized to have a pre-visit planning call to address barriers to telemedicine visit versus a standard reminder call. No difference between pre-visit and control in scheduled visit attendance (83% v. 78%, OR 1.38, 95% CI 0.67–2.81). (Q2#3)

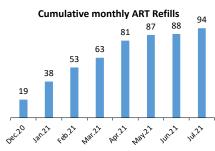
Country examples and innovations from EPIC Program

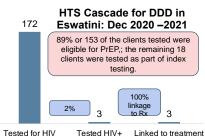


Eswatini: Community distribution model

MoBaCo Model **MO**ther **BA**bv **CO**mmunity Community

- Eswatini government-initiated model in response to COVID-19
- Community sites: drug shops, closed schools, churches, etc.
- Distributes ARVs. TB. and NCD medications (antidiabetic, antihypertensives) FP products, PrEP, and condoms
- Targets populations extend beyond ART clients.



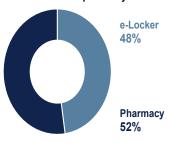


Lesotho: Automated dispensing model: BonoloMeds





Proportion of clients who chose the e-locker and pharmacy model

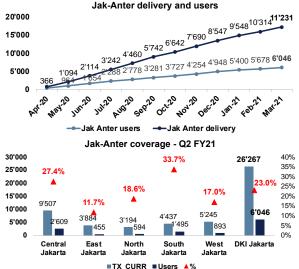




Parcels of ARVs are made available in secure automated lockers from which clients can take out their parcel of ARV refills

Indonesia: Ride-based app and courier service home delivery





"When we provide twomonths of ARVs - or send medications through Jak-Anter - our workload decreases and we can focus on other key tasks, including COVID-19 contact tracing. - Health care provider in

risk of COVID-19. The medicine is wrapped to protect my identity and the app] means that my neighbors do not know the ents of the delivery."

- · Health facility staff contacted the client to confirm address and desire for ARV home delivery.
- Medication is packed in containers concealing the contents and sent to the client through the Jak-Anter delivery system via a ride-based app or transport courier service such as Tiki, JNE, Grab, or Gojek.
- Facilities first pay the transportation fees and then are reimbursed by USAID/LINKAGES.





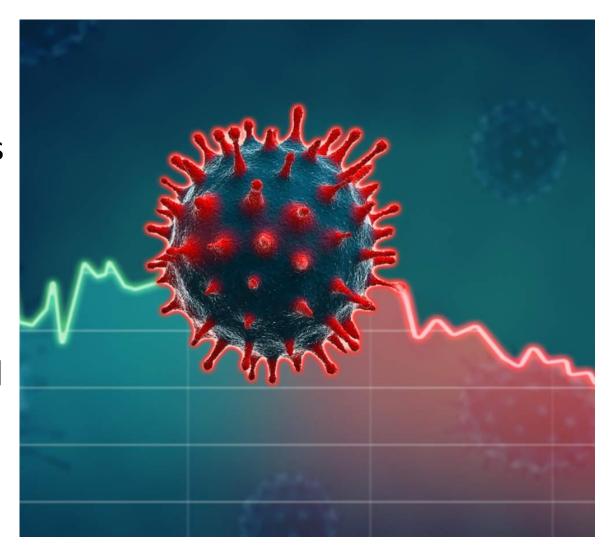


Source: FHI360 EPIC

Virtual Interventions - Rapid COVID 19 response



- Mitigate the impact of COVID 19 on programmes
- **Self care** option of accessing services
- Decongest the facilities to avoid infection related risks
- Home delivery of HIV ST kits, ART,
 PrEP for self and partners
- Can be adapted for all populations and services
- Real time tracking and data management

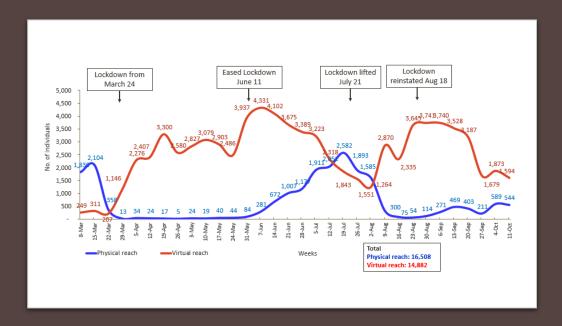


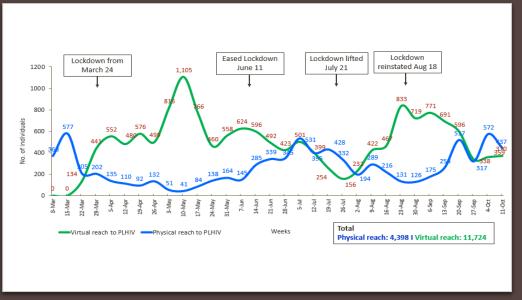
Virtual Case Management as a response to COVID 19

- Physical vs virtual outreach during COVID
 19 lockdowns in Nepal
- Use of social media platforms and dating apps to reach new populations online
- Use of digital social content on prevention and treatment;
- Peer champions, case management teams, and community-based supporters delivered ART directly to clients' homes
- Case management support for 75% PLHIV shifted online

Source: FHI360 Nepal









New section on monitoring DSD in 2022 WHO SI

guidelines



WHO 2022 Five key recommendations for the patient monitoring system

- Analyse and use routine testing data to optimise HIV testing services
- Use person-centred patient data to assess ART interruption, improve reengagement and retention in care
- 3. Integrate the monitoring of DSD within the HIV patient monitoring system
- 4. Enhance data quality and use
- 5. Use drug stock data

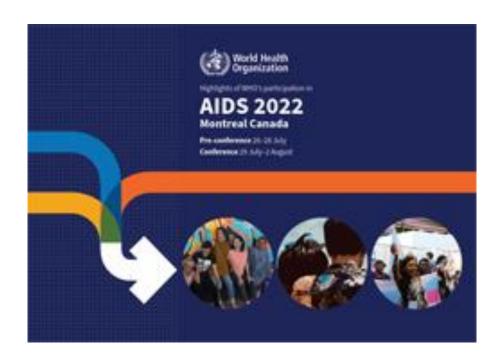
Differentiated service delivery

- 5 new indicators for monitoring DSD implementation and outcomes
 - ✓ DSD 1. Multi month ARV dispensation
- ✓ Example tools and country case study
- ✓ Minimum data elements for monitoring DSD
- Update of patient monitoring tools for tracing DSD interventions and monitoring retention and health outcomes
- Update of patient monitoring tools, ART cohort and crosssectional reports to enable monitoring of DSD

WHO at AIDS 2022













Thank you

For more information, please contact:

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Transmitted Infections Programmes
E-mail: hiv-aids@who.int
www.who.int/health-topics/hepatitis



