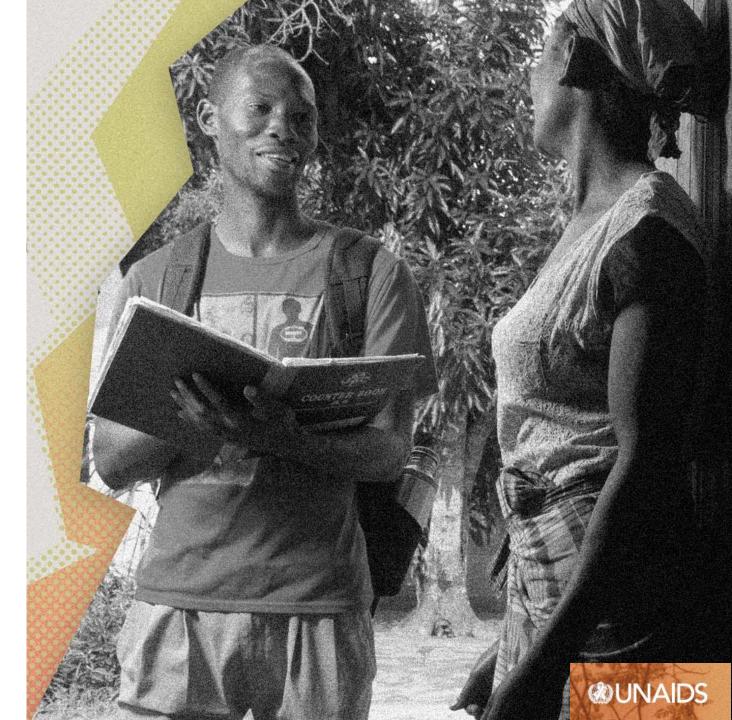
Panel 1: Leveraging Data to fill gaps in HIV service coverage

Leveraging data, technologies, & innovation to meet 2025 and 2030 goals

PCB THEMATIC SEGMENT Consolidated presentations from Panel 1

Friday, 10 December 2021





What are the data telling us about inequalities among sub-populations in New South Wales, Australia?

Andrew Grulich

Theme Director, Populations and Prevention, and Head, HIV Epidemiology and Prevention Program, Kirby Institute, UNSW Sydney

UNAIDS PCB meeting | December 2021

Trends in HIV diagnoses in NSW: context and data sources

Context

- HIV concentrated in gay men (70%+ of all diagnoses)
- HIV diagnoses were stable 2000-16, despite reaching UNAIDS 90/90/90 goals in 2016
- Data sources for today's analyses
 - HIV diagnoses based on routine HIV surveillance
 - Data on age, postcode and country of birth
 - Postcodes categorized by proportion of males who are gay (>20%; 5-19%; <5%)
 - Based on census information on cohabiting male couples
 - HIV testing, HIV treatment and PrEP data based on two sources
 - A clinical sentinel surveillance system of MSM attending high-caseload clinics based on electronic data capture (the ACCESS system, since 2013)
 - Annual gay community behavioural surveys (since 1996, annual)

Declining HIV, but emerging disparities in HIV diagnoses

Figure 1. All new HIV diagnoses in MSM for Australian-born and overseas-born men

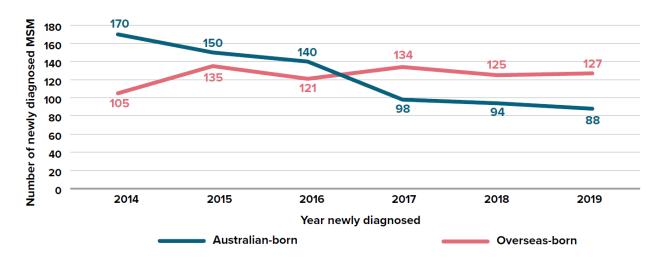
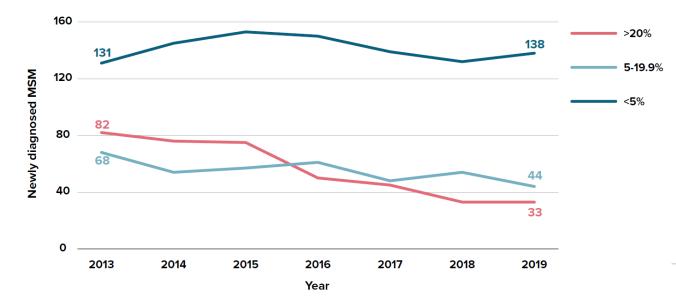


Figure 16. HIV diagnoses in MSM by proportion of adult males in the postcode who are gay



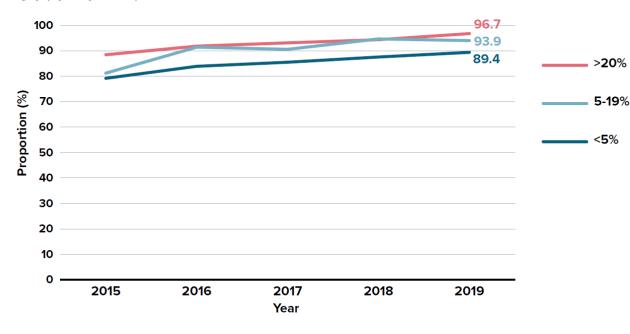
Trends, 2015-2019

- 25% decline in HIV diagnoses overall
- 41% decline in HIV diagnoses in Australian-born men; 6% decline in overseas-born
 - Increases in HIV in those recently arrived (<4 years)
- 56% decline in highest-concentration gay postcodes, compared to 10% in lowest-concentration postcodes
- declines in all age-groups but least in those aged <25 years (20%)

https://kirby.unsw.edu.au/report/trends-in-hiv-in-nsw-2015-2019

Disparities in HIV testing trends

Figure 21. Proportion of men who reported an HIV test in the last 12 months among men who reported some condomless anal intercourse with casual partners in the last 6 months by proportion of adult males in the postcode who are gay (Sydney GCPS)



Trends, 2015-2019

- very high rates of HIV testing overall, slightly increasing
- no difference by country of birth
- lower HIV testing rates in suburbs with lowest concentration of gay men
- slightly lower testing rates in MSM aged less than 25 and > 55 years

Disparities in HIV treatment trends

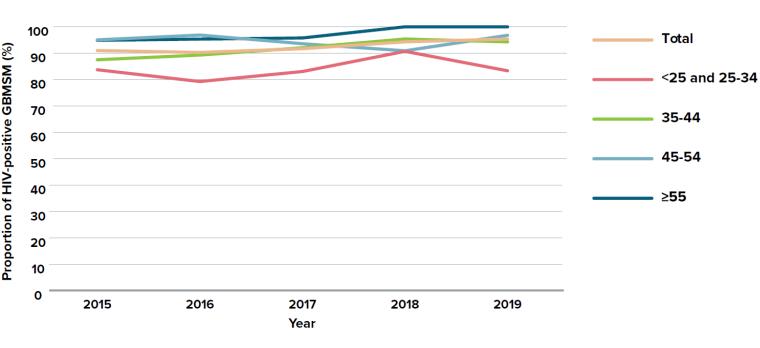
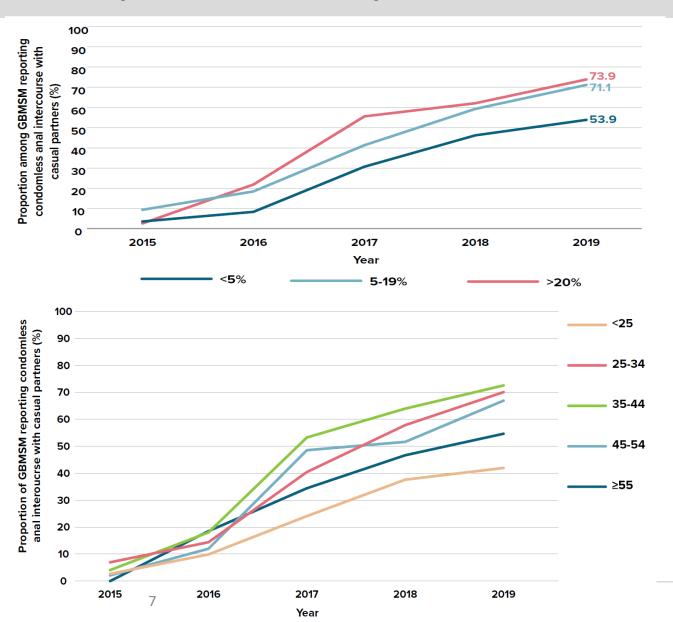


Figure 38. HIV-positive men on treatment, by age (Sydney GCPS)

Trends, 2015-2019

- very high treatment levels overall (>90%)
- no difference by country of birth
- no difference by proportion of postcode gay
- slightly lower treatment rates in MSM aged less than 35

Disparities in PrEP uptake trends



Trends, 2015-2019

- enormous increases in PrEP use between 2015 and 2019
- no difference by country of birth
- markedly lower PrEP use in the lowest-concentration gay postcodes
- lower PrEP use in MSM aged less than 25

Data analysis for policy action

• Declining HIV diagnoses as PrEP was introduced on a background of high levels of treatment as prevention

- Disparities in HIV diagnosis trends explained by different access to HIV testing and PrEP
- New NSW HIV strategy 2021 specifically targets increased HIV prevention action focussed on
 - Recently arrived overseas-born MSM
 - MSM living outside of central Sydney
 - Young MSM aged < 25 years

NSW HIV Prevention Partnership Project

Investigators and Steering Committee Professor Andrew Grulich Dr Christine Selvev Professor Rebecca Guy A/Professor Garrett Prestage Professor Martin Holt Ms Carolyn Murray Professor Anthony Kelleher Ms Jane Costello Ms Karen Price **Dr Prital Patel** Dr Angie Pinto Dr Ben Bavinton Dr Steven Nigro Mr Phillip Keen Professor John de Wit Professor John Kaldor Mr Bill Whittaker A/Professor Irvna Zablotska Professor David Wilson

PrEP Working Group Dr Ben Bavinton Ms Carolyn Murray Professor Martin Holt Professor Andrew Grulich Mr Scott McGill Ms Zinda Nanver Ms Karen Price Mr Matthew Vaughan Mr David Crawford Mr Phillip Keen

HIV Treatment Working

Group

Dr Angie Pinto Ms Carolyn Murray Professor Tony Kelleher Dr Prital Patel A/Professor Limin Mao Professor Andrew Grulich Ms Jane Costello Professor Rebecca Guy Mr Neil McKellar-Stewart Mr Neil Fraser Ms Kate Bath Mr Phillip Keen

Group Professor Rebecca Guy Ms Cherie Power Dr Prital Patel

HIV Testing Working

Professor Andrew Grulich Mr Karl Johnson A/Professor Limin Mao Ms Vickie Knight Ms Ruthy McIver Mr Philip Cunningham Mr Neil Fraser MS Vickie Bowden Mr Phillip Keen

Behaviour Working Group

A/Professor Garrett Prestage Ms Cherie Power Professor Martin Holt Professor Andrew Grulich Dr Ben Bavinton Ms Karen Price Mr Neil Fraser Mohamed Hammoud Ms Elisabeth Morgan Mr Phillip Keen

Molecular Epidemiology Working Group

Dr Angie Pinto Mr Steven Nigro Ms Carolyn Murray Professor Anthony Kelleher Dr Francesca Di Giallonardo Professor Andrew Grulich Dr Christine Selvey Ms Jane Costello Ms Karen Price Mr Neil Fraser Mr Phillip Keen





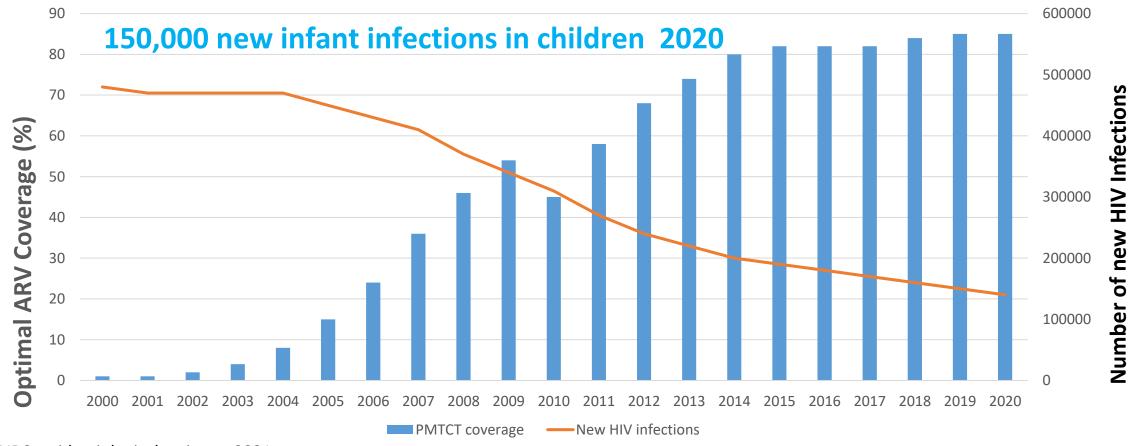






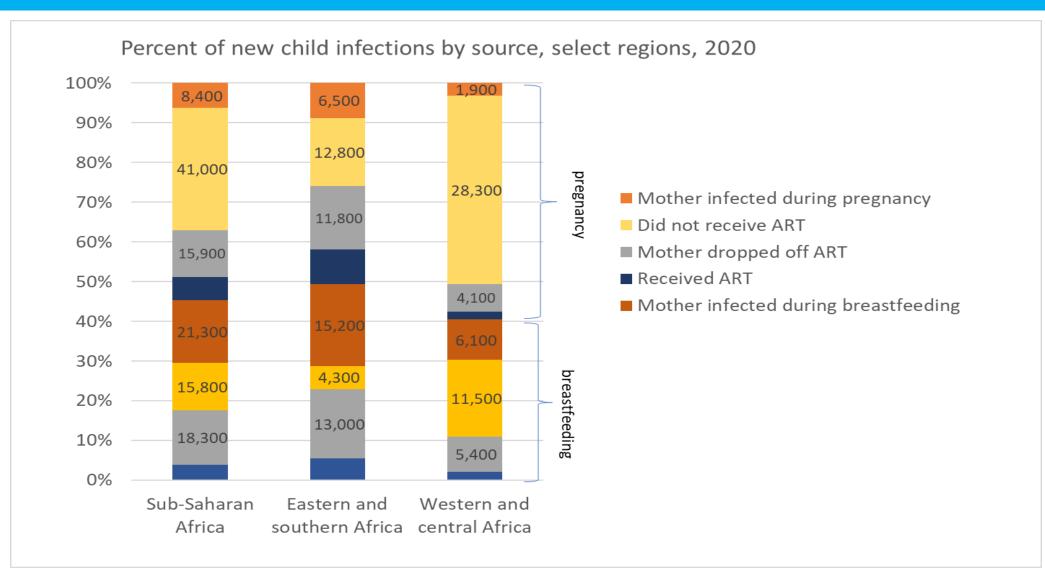


PMTCT Optimal ARV Coverage and Reductions in New HIV infections in children - 2000-2020

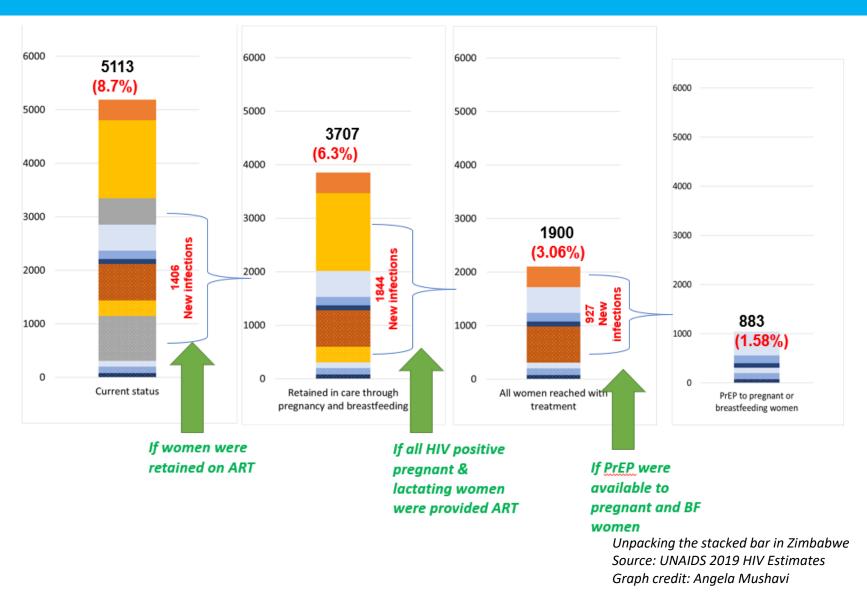


Source: UNAIDS epidemiological estimate 2021

Stacked bar analysis to improve PMTCT programme precision: Sources of new HIV infection in children



Data mining and use to improve PMTCT programme in Zimbabwe





GOING THE 'LAST MILE' TO EMTCT: A road map for ending the HIV epidemic in children

World Health Organization for every child

Intervention domains

HIV prevention services for women and girls

Timely engagement in antenatal care

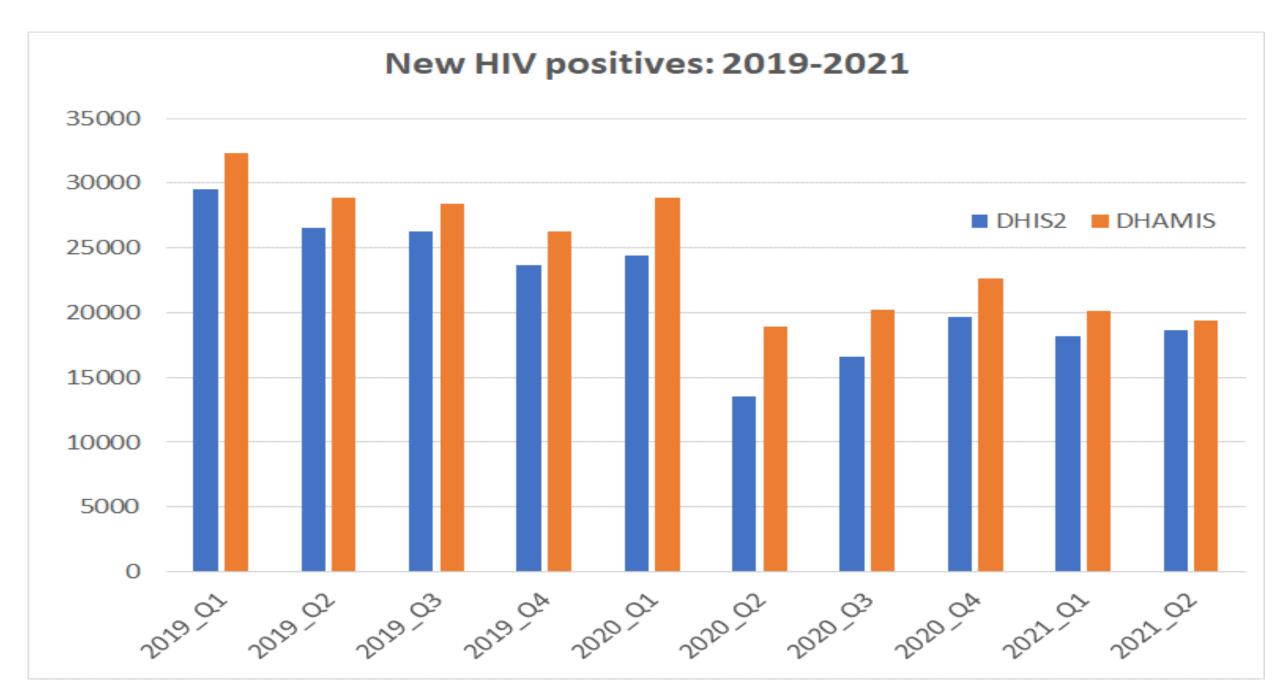
Timely access to HIV testing

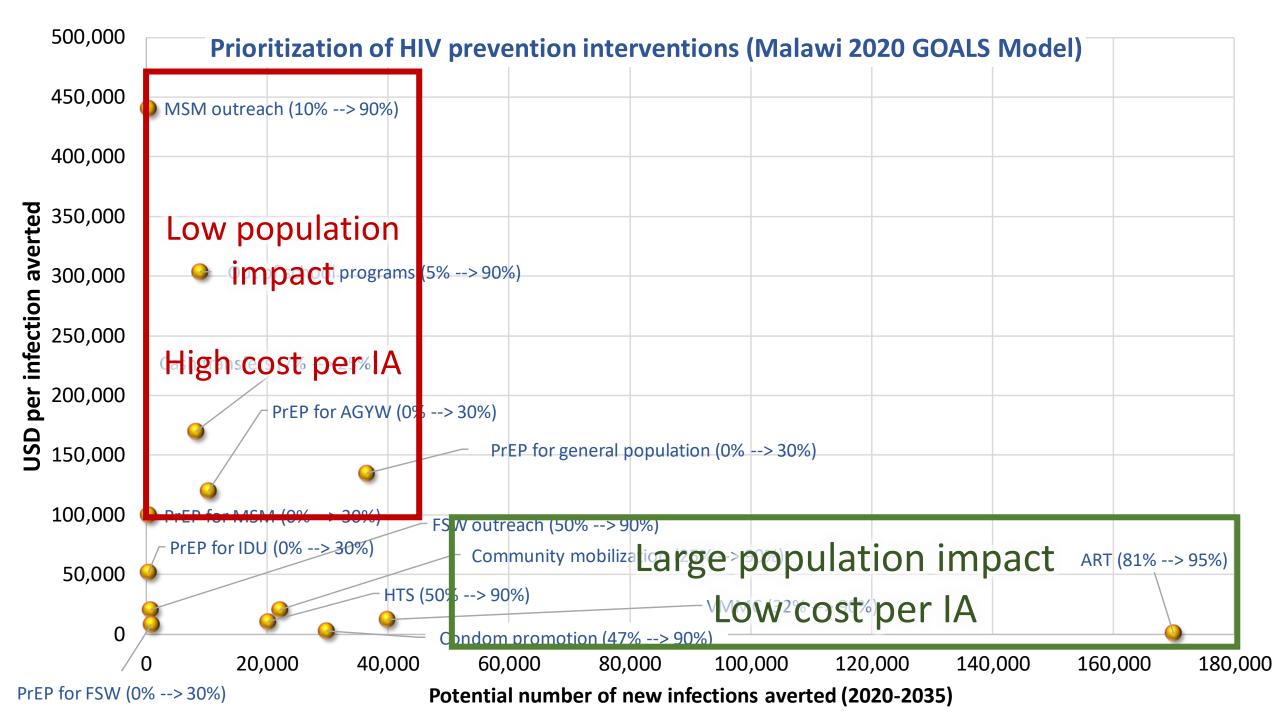
Timely ART initiation Programme retention and adherence support Services for infants at highest risk of HIV acquisition

HIV AND AIDS DATA OUTCOMES

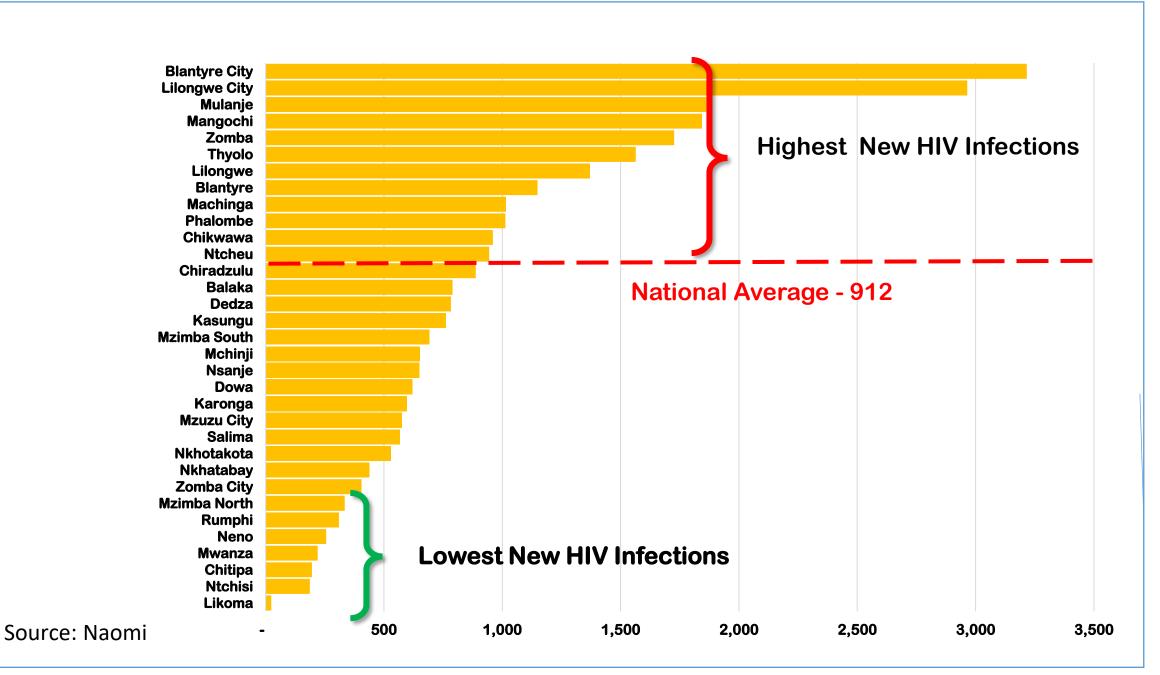
December 2021

Emanuel Zenengeya Head of Planning, M&E Division National AIDS Commission Malawi





Distribution of New HIV Infections - Adults 15+ Dec 2019







Of 10,302 patients: <u>only</u> **35%** said there was <u>always</u> enough staff to meet patients' needs.

Managers at facilities agreed: Of 397 Managers **77.3%** reported there was <u>not</u> enough clinical and/or non-clinical staff at the facility.







Staff attitude & missed appointments

63.7% of patients thought the staff were always friendly & professional.

But if you miss an ARV pick up visit:

- + **473 PLHIV** reported you are sent to the back of the queue next time
- + **305 PLHIV** reported you are reprimanded when you return
- + **816 PLHIV** reported being welcomed back
- + **431 PLHIV** reported staff provide counselling on adherence



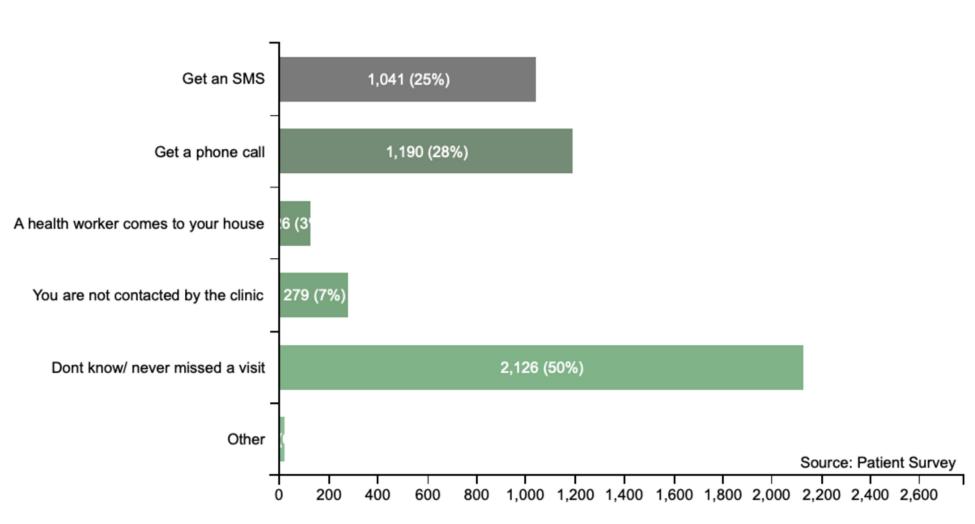
Some clinics are showing it can be done better:

234 clinics had no reports of PLHIV being sent to back of queue.165 of those clinics also had no reports of PLHIV being reprimanded.



Protocol if someone misses an appointment

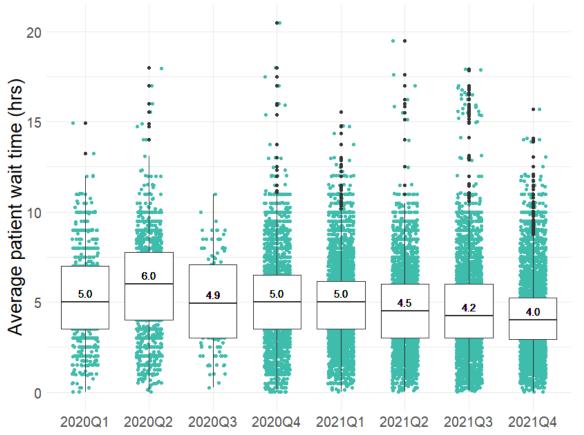
When Patients Miss a Visit to Collect ARVs:





Patients Surveyed: 4,247

Improvement in waiting times



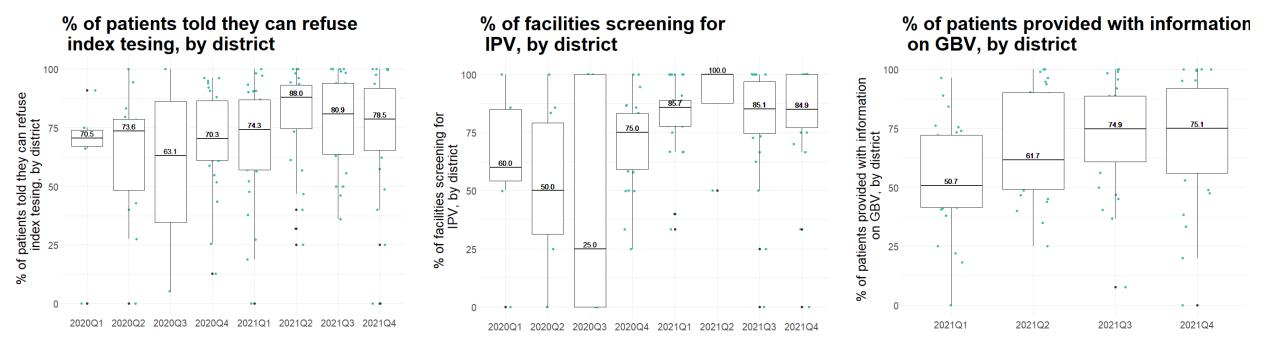
Average patient wait time (hrs)

Waiting times dropped by 33% from 2020 Q2 to 2021 Q4

(from six hours to four hours)



Index testing and GBV



More PLHIV are told they can refuse index testing (71% to 79%), more clinics screen for IPV

(60% to 85%) and more PLHIV provided with information on GBV (51% to 75%)



More information + all reports available online

Facility, District + Provincial reports available at:

http://data.ritshidze.org.za/ZA/reports

https://ritshidze.org.za/category/resources/

| PPP RITSHIDZE | Zo | one 17 Clin | ic Monitoring Report Gauteng - Sediberg: 2021 Q3 | 117 RITSHIDZE | Ugu District | Monitoring R KwaZutu-Nat | |
|--|---|---|---|--|--|---|-----------------------------------|
| Facility Hours and Waiting Times | | | | Facility Hours and Walting Times | | | |
| Facility is Open 24 Hours | Time Patients Sp Facility Amount of time spent | 2 | Earliest Patient Arrival Time Patient | Often public healthcare users experience long welfs people, particularly working people and those in sch refits, increases the risk of that person disergaging | col. Having people living with HIV spend an ext | inic. This simply does not w nded time at a clinic, simply | ork well for m y to collect AP |
| Open Time M-F: 7:00 Open Time Sat: NA Average stop time: 15:57 NDoH May 2019 Circular: | This ranks: • 51 of 396 Facilities N • 5 of 118 Facilities in Quarter) • 2 of 8 Facilities in the | istionally (Top Quarter) the Province (Top a District (Top Quarter) | This ranks: • 103 of 396 Facilities Nationally (Top Half) • 15 of 118 Facilities in the Province (Top Quarter) • 3 of 8 Facilities in the District (Top Half) | Time Patients Spend at t | | Facility Results (5 Be Pot Edward Ciric Keshtburde Ciric birgdweri Ciric | est/Worst) 201 213 23 |
| cilities must be open from) - 19.00, as well as 8.00 - 10 on Saturdays.* | + 2 of 8 Facables in the | District (10p Quarter) | | Amount of time spent: | 4:57 | Margane Clinic Golima Clinic | 244 |
| Incues at the Facility | Please specify the | - | How Safe is the Facility to Wait | Comparison Results National Average: | 4.12 | Southpart Clinic Port Shepstone Clinic | 8-16 8-35 |
| Long? | why the queues | | Before it Opens? | Province Average: Best District Result: Word District Result: | 2:46 1:52 7:32 | Unainto Clinic Marburg Clinic | 6:44 |
| of patients report long queues | No Data for this Indice | ator | Under Dr. 205 | | Paletti Responses 178 | Turton CHC Facility Results (5 Br | est/Worst) |
| | | | | Earliest Patient Arriv | 6:27 | Margate Clinic Pot Edward Clinic Gollima Clinic Iblingdweni Clinic | 8:52 8:10 8:00 8:00 |
| There is not enough staff 1 | | | | Comparison Results | | Gamalakhe CHC | 758 |
| | | | This ranks: | National Average: Province Average: | 5.51 | Southport Clinic | 812 |
| 0 01 02 03 04 05 04 07 08 0 | 17 | | 53 of 335 Facilities Nationally (Top Quarter) 12 of 108 Facilities in the Province (Top | Rest District Result: | 7:07 | Marburg Clinic Turtos CHC | 501 |
| | 1 | | Quarter) 1 of 7 Facilities in the District (Top Quarter) | Want District Result | 4:17 | Unzinto Clinic | 248 |
| y Staff | 1 | | | How Safe is the Facility to Wait | Before it Opens? | Facility Results Kealtburde Clinic | 5.00 |
| Are there Enough Staff at the Faci | lity? Patent | Are Staff F | riendly and Professional? | Stery Groute: 4% | District Score* 3.61 | Port Shepstone Clinic Southoart Clinic | 5.00 |
| n 805 | | Yes: 82% | | Sector Sec | Comparison Results | Marburg Clinic | 4.50 |
| n 20% | | Europines 20% | 20% | and the second s | National Average: 2.18 | Port Edward Clinic Turton CHC | 4.00 |
| | | | | They finds and the | Province Average: 2.18 Province Average: 2.14 | Unrainto Clinic | 2.41 |
| | | | | Sections 16 | Best District Result: 4.77 | Margate Clinic | 2.33 |
| | | | | | Worst District Result: 1.81 | | |
| | | | | 7% 17% | * Essens based on average of all survey responses with a maximum score of 8 and a minimum score of 1. HOHER scores are bellar. | | |
| hia ranka: | | This ranks: | | Are the Queues at the Fa | cility Long? | Facility Results (5 Be | est/Worst) |
| 46 of 396 Facilities Nationally (Top Quarter) 15 of 118 Facilities in the Province (Top Quarter) 5 of 8 Facilities in the District (Bottom Half) | | | s Nationally (Top Half) in the Province (Top Quarter) he District (Bottom Half) | Mas 8/15, | District Score* 62% | Kwahitbunde Clinic Margate Clinic | 12% |
| | | | | Decisions 25 | Comparison Results | Port Edward Clinic | 165 |
| Facility Manager: Does the Facility hav | e Enough | Which C | adres are Understaffed? | | National Average: 68% | Izingdweni Clinic | 42% |
| Staff? | Terperan I | C Dealer | R Professional nume | | Province Average: 64% | Marburg Clinic | 100% |
| | | English ourse assistant | C Promocial Inc. R Encoded Inc. B | | Best District Result: 12% | Port Shepstone Clinic | 100% |
| | No | Lab trabal | C) Lay counselors III Linkage officers | 115 | Worst District Result: 97% | Southpart Clinic | 100% |
| | | | | | | | |
| | | Afternice dub Solitato | C Data capturer C Security guard C Security guard C Security automated | | * Percent of survey responses responding Ves (excluding "Duril Know"), LONIER survey, are beller. | Turton CHC Unrainto Clinic | 100% |

