

South African National HIV Prevalence, Incidence, Behaviour and Communication Survey, 2017

TOWARDS ACHIEVING THE UNAIDS 90-90-90 TARGETS





SABSSM V

To date, the HSRC and its partners have undertaken five population-based HIV and behavioural surveys, in previous surveys were conducted in

2002, 2005, 2008 & 2012

These surveys have provided an important gauge of the HIV epidemic of South Africa



HIV Surveillance

HIV surveillance has been key in monitoring the response to the HIV epidemic, ART exposure, incidence testing and Viral Load testing

HIVDR

HIV Drug Resistance

HIV drug resistance (HIVDR) testing was included in the 2017 survey for the first time in the survey series



RESEARCH METHODS

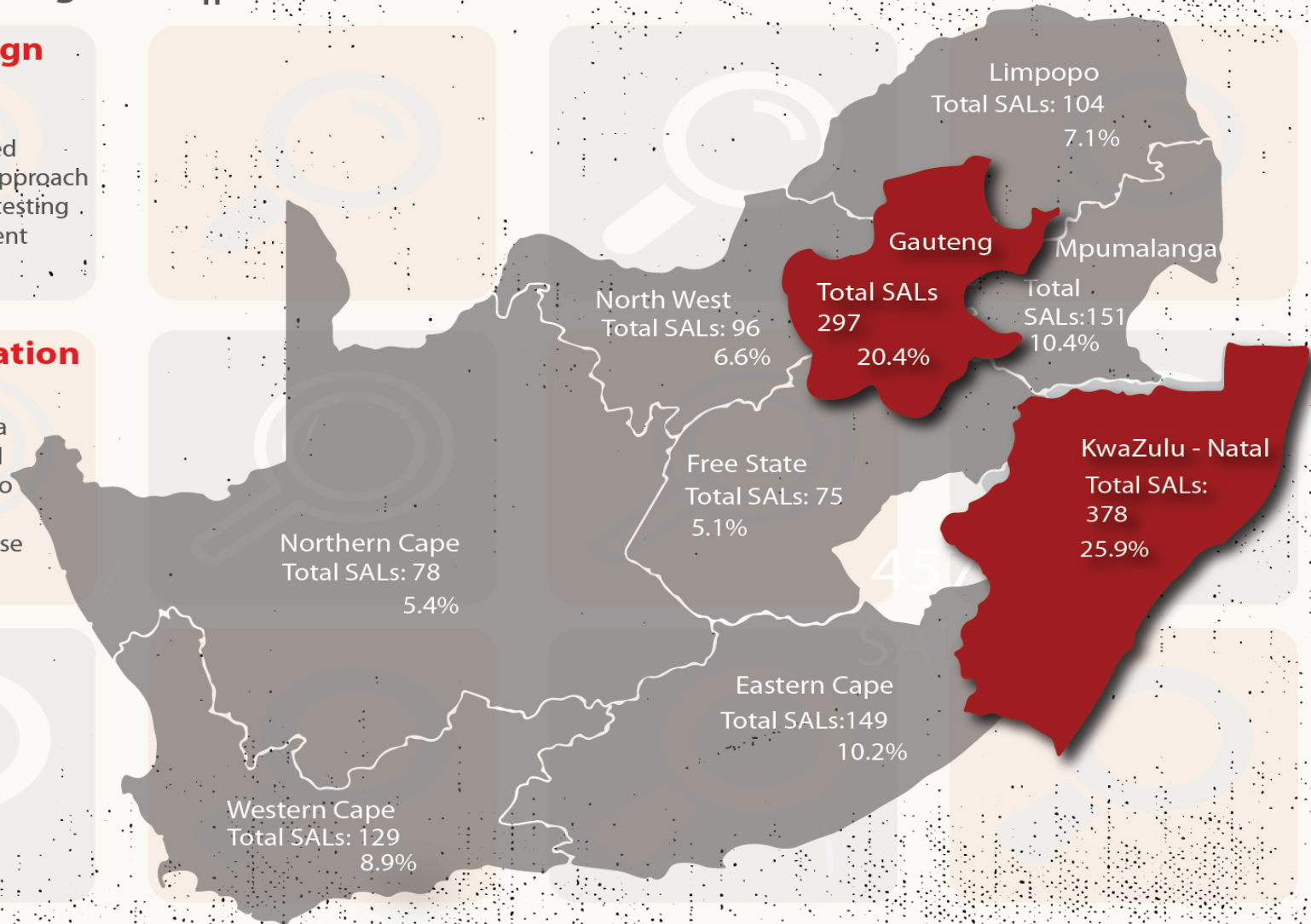
Sampling Frame || SABSSM V - National + 16 District / Metro-level estimates

Survey Design

- Red ribbon icon Cross-sectional
- Red ribbon icon Population-based
- Red ribbon icon Multi-stage stratified
- Red ribbon icon Random sampling approach
- Red ribbon icon Linked anonymous testing with informed consent

Survey Population

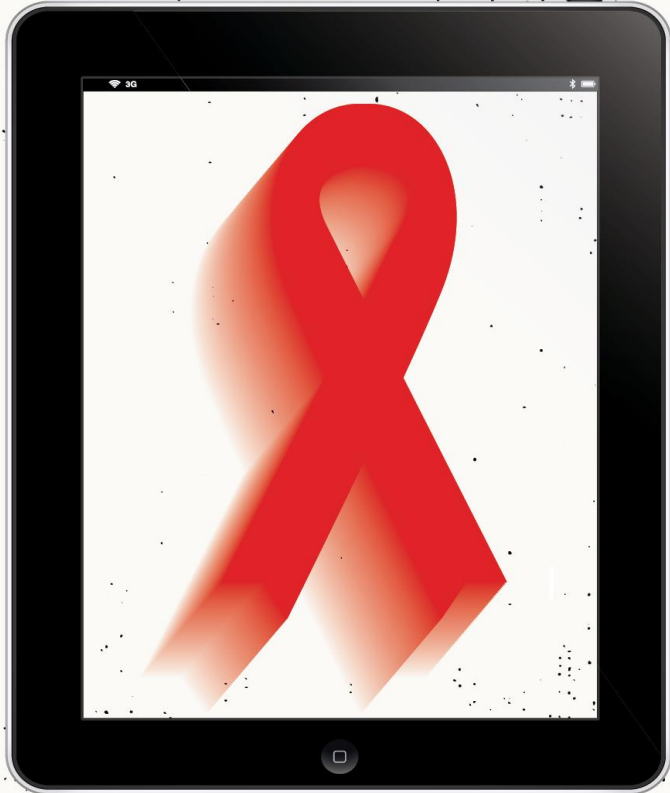
- Red ribbon icon Person of all ages
- Red ribbon icon Living in South Africa
- Red ribbon icon Members of selected households invited to participate in the survey including those living in hostels



DATA COLLECTION TOOLS AND PROCESSES

Four questionnaires were used in this survey:

- 🚫 Household Questionnaire
- 🚫 Parent / guardian of children aged 0 to 11 years
- 🚫 Children aged 12 to 14 years
- 🚫 Persons aged 15 years and older



Blood Sample Collection

- 🚫 All DBS samples were tested for HIV in the laboratory using approved methods
- 🚫 Those found to be positive were confirmed by doing additional tests

LABORATORY TESTING

NATIONAL HIV HOUSEHOLD SURVEY, SOUTH AFRICA 2017



Dried Blood Spot
HIV Ab screening,
Nucleic Acid Amplification test

HIV
Positive





Valid Households

11,776



HIV Testing Response

61.1 %



Household level response

82.2 %

RESPONSE RATE SOUTH AFRICA 2017

Blood Samples

23,923



Eligible individuals



39,132



Individual level response

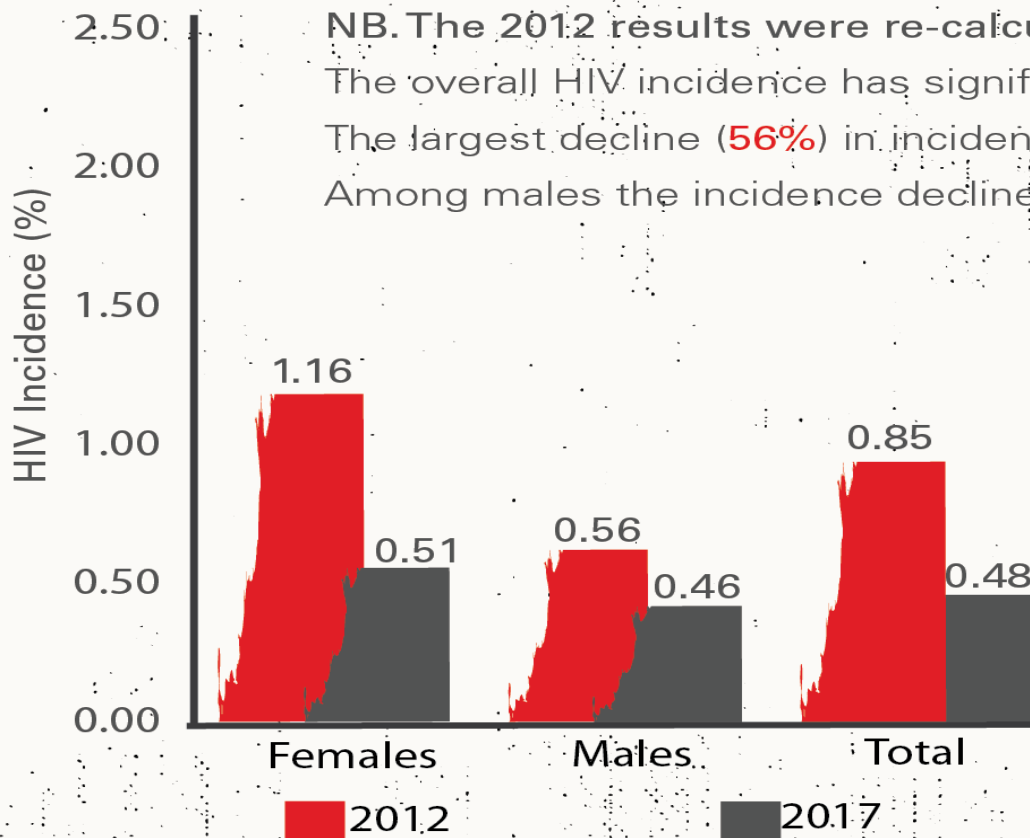
93.6 %

RESULTS

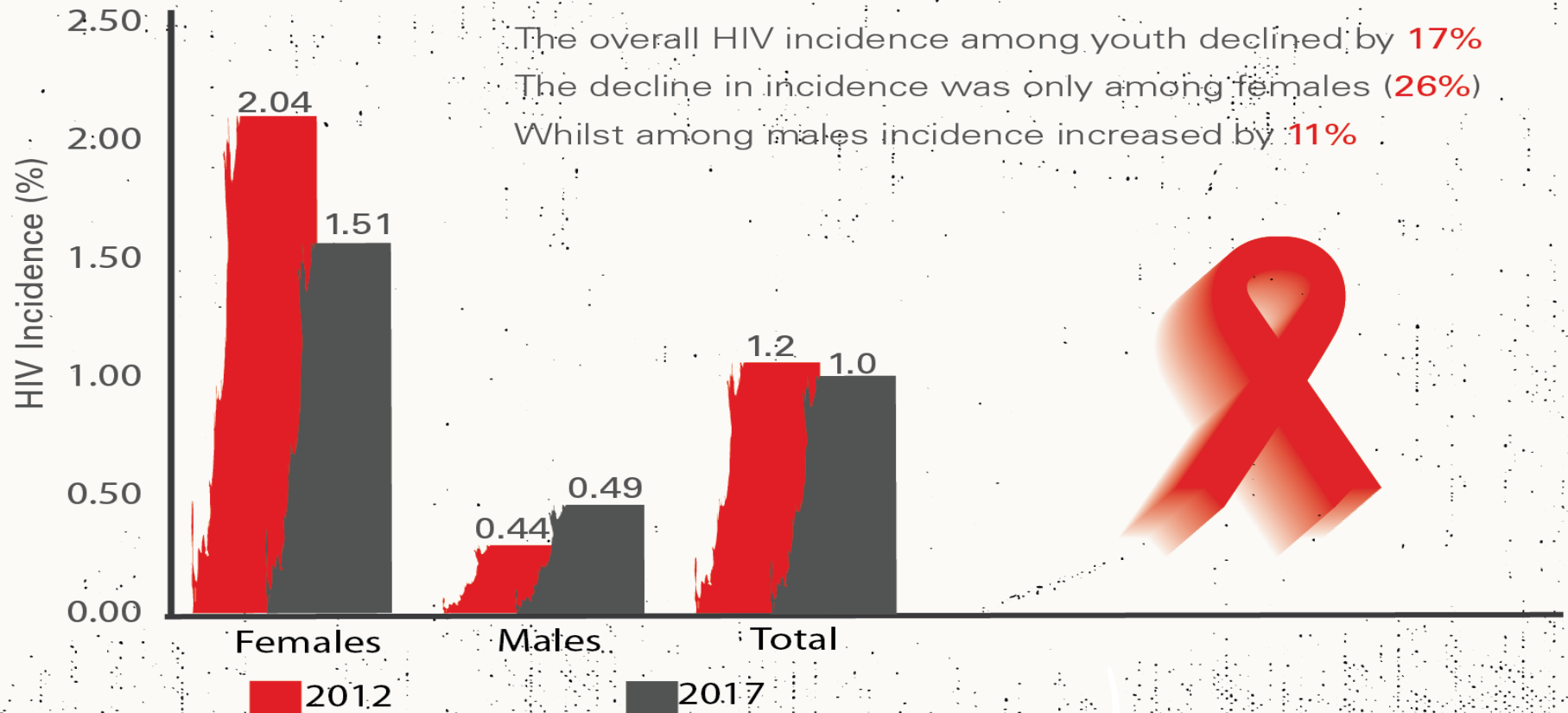


Changes to HIV Incidence among those aged two years and older by Sex, South Africa, 2012-2017

NB. The 2012 results were re-calculated using the 2017 test parameters
The overall HIV incidence has significantly dropped by **44%**.
The largest decline (**56%**) in incidence was among females.
Among males the incidence declined by **18%**.

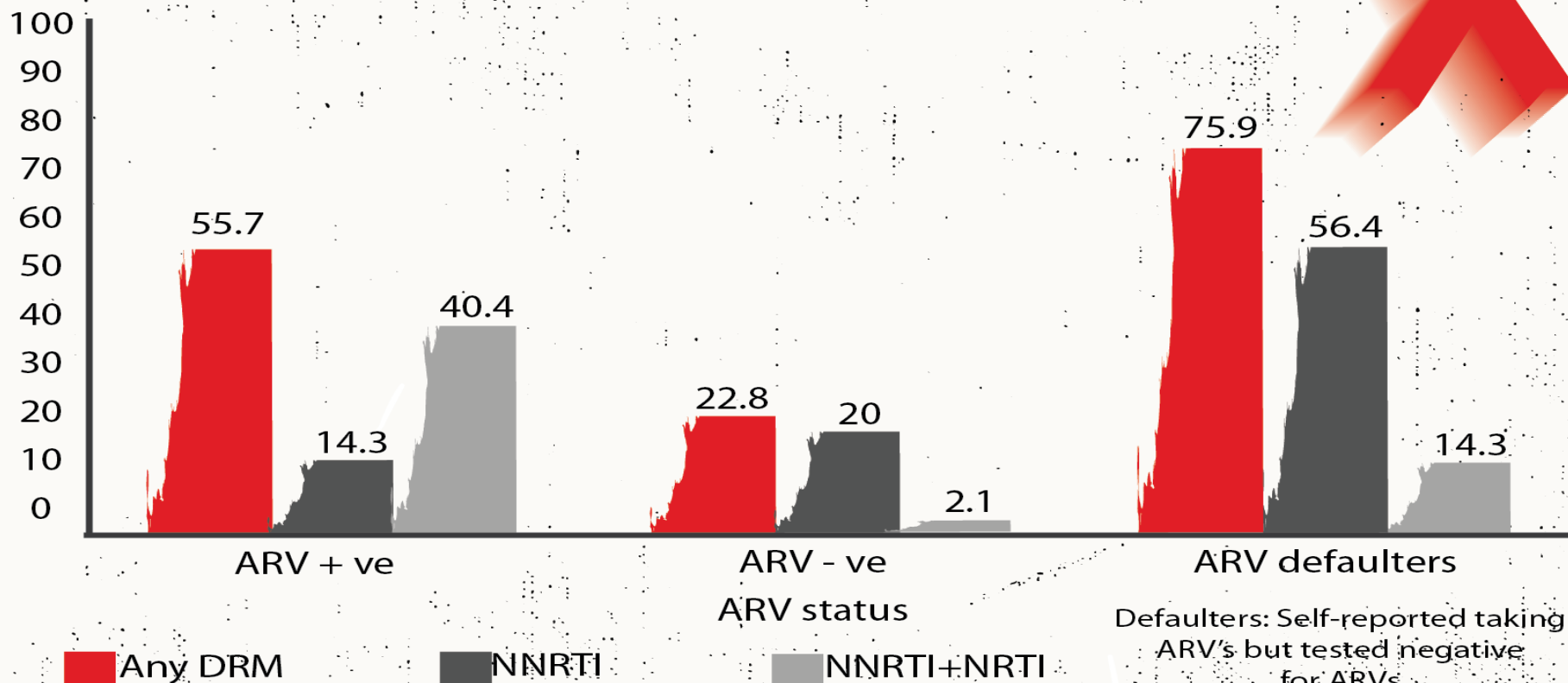


Changes to HIV Incidence among those aged 15 to 24 years by sex, South Africa, 2012-2017



HIV drug resistance by ARV status

South Africa, 2017



NATIONAL KEY COUNTRY INDICATORS



National Key Country Indicators

**Overall HIV
Prevalence**
14.0%

**Overall Drug
Resistance**
27.4%

People aged 15 - 64

**Diagnosed
(first 90)**
84.9%

**ART exposure
(second 90)**
70.6%

**Virally suppressed
(third 90)**
87.5%


For people 15 years and older

HIV Testing
75.2%

**Medical Male
Circumcision**
30.8%

**Condom use
at last sex**
38.9%

Nuances from National results



HIV prevalence is increasing because mortality rates are decreasing due to more people being on treatment.

HIV incidence has declined significantly by **44%**, dropping from **378 700** new infections in 2012 to **231 100** new infections in 2017.

Overall, the number of new HIV infections had dropped by **14%**, from **270 000** in 2016 to **231 000** in 2017.

However: The incidence of new HIV infections remains high, especially among females aged 15 - 24 (**1.51%**) and females aged 15 - 49 (**0.93%**). Treatment uptake had more than doubled since the 2012 survey.

More than two-thirds of males aged 15 - 24 were circumcised, with over half being medical circumcisions.

Sustained gains have been recorded for the **awareness** of HIV status and HIV-testing. Generally, **two-thirds** of people indicated that they had **been tested** during the previous 12 months. Male testing rates were now nearly equal to those for females.

PROVINCIAL AND DISTRICT KEY COUNTRY INDICATORS



Provincial and Districts results

HIV Prevalence will be presented for all ages

90 90 90 indicators will be presented for people aged 15-64

Medical Male Circumcision and Condom use at last sex will be presented for people aged 15 years and older



WESTERN CAPE Province

**Overall HIV
Prevalence
8.9%**

People aged 15 - 64

| | | |
|-------------------------|-----------------------------|----------------------------------|
| Diagnosed (first 90) | ART exposure (second 90) | Virally suppressed (third 90) |
| 80.9% | 67.1% | 89.0% |

For people 15 years and older

| | |
|------------------------------|---------------------------|
| Medical Male Circumcision | Condom use at last sex |
| 18.3% | 28.6% |

WESTERN CAPE District Level

City of Cape Town

Overall HIV
Prevalence
9.5%

People aged 15 - 64

Diagnosed (first 90) ART exposure (second 90) Virally suppressed (third 90)

87.8% **76.2%** **92.4%**

For people 15 years and older

Medical Male
Circumcision

18.5%

Condom use
at last sex

35.3%

EASTERN CAPE Province

**Overall HIV
Prevalence
15.3%**

People aged 15 - 64

Diagnosed
(first 90) **89.5%**

ART exposure
(second 90) **76.7%**

Virally suppressed
(third 90) **90.5%**

15 years and older
Medical Male Circumcision
14.0%

15 years and older
Condom use at last sex
38.4%

EASTERN CAPE District Level

OR Tambo

People aged 15 - 64

**Overall HIV
Prevalence
17.3%**

Diagnosed
(first 90) **94.1%**

ART exposure
(second 90) **69.0%**

Virally suppressed
(third 90) **82.5%**

**15 years and older
Medical Male Circumcision
11.2%**

**15 years and older
Condom use at last sex
42.3%**

NORTHERN CAPE Province

15 years and older
Medical Male Circumcision
22.8%

15 years and older
Condom use at last sex
37.0%

Overall HIV
Prevalence
8.3%

People aged 15 - 64

Diagnosed
(first 90) **73.8%**

ART exposure
(second 90) **72.2%**

Virally suppressed
(third 90) **87.1%**

FREESTATE Province

People aged 15 - 64

Diagnosed
(first 90) **91.8%**

ART exposure
(second 90) **68.2%**

Virally suppressed
(third 90) **89.8%**

15 years and older
Medical Male Circumcision

36.5%

15 years and older
Condom use at last sex

41.0%

Overall HIV
Prevalence
17.8%

KWAZULU NATAL

Province

15 years and older
Medical Male Circumcision **29.1%**

15 years and older
Condom use at last sex **42.6%**

People aged 15 - 64

Diagnosed
(first 90) **86.2%**

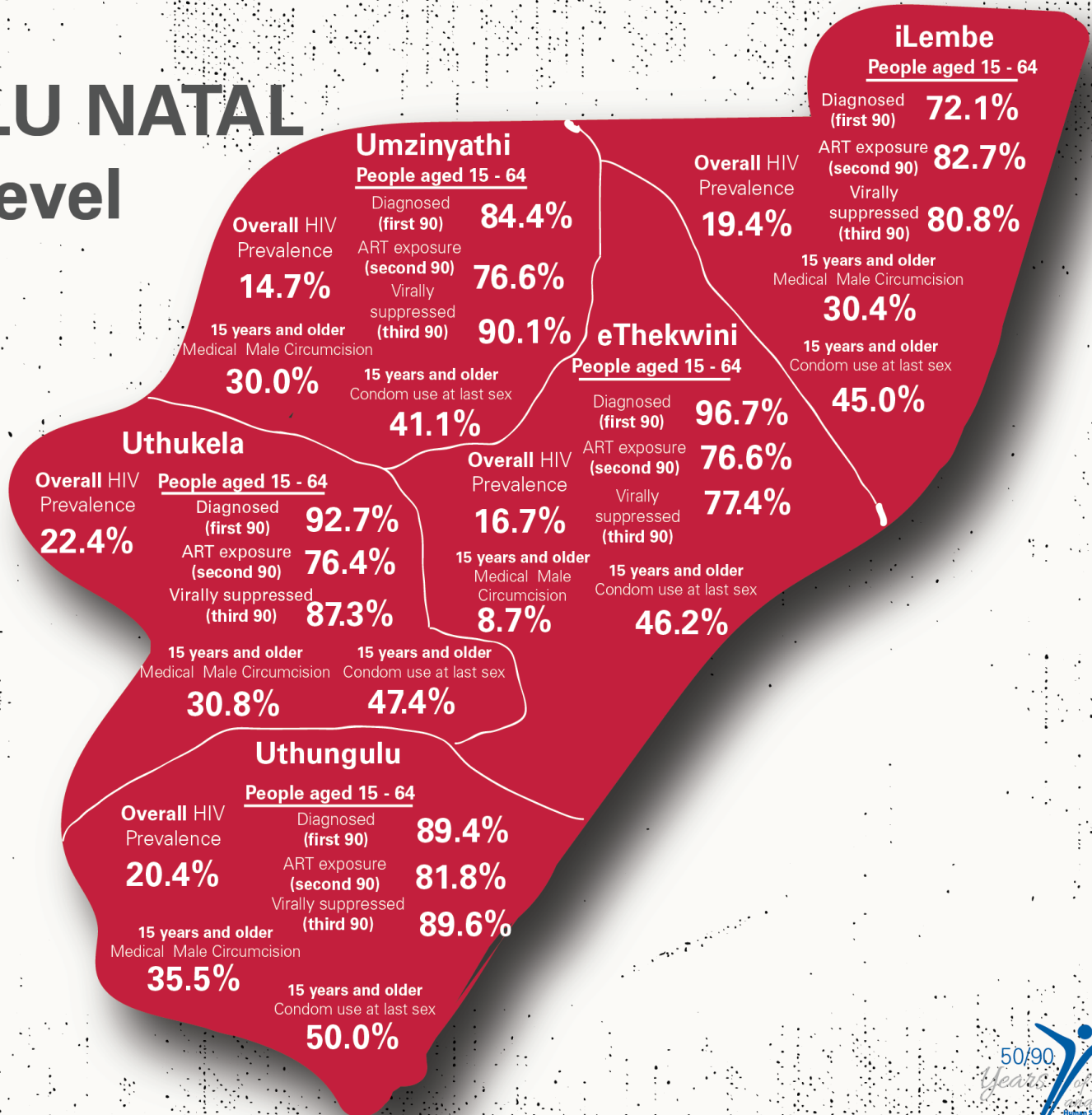
ART exposure
(second 90) **79.3%**

Virally suppressed
(third 90) **85.7%**

**Overall HIV
Prevalence
18.1%**

KWAZULU NATAL

District level



NORTH WEST Province

**Overall HIV
Prevalence
14.5%**

People aged 15 - 64

| Diagnosed (first 90) | ART exposure (second 90) | Virally suppressed (third 90) |
|-------------------------|-----------------------------|----------------------------------|
| 77.6% | 64.8% | 90.8% |

For people 15 years and older

| | |
|------------------------------|---------------------------|
| Medical Male Circumcision | Condom use at last sex |
| 28.1% | 43.6% |

NORTH WEST District Level

Bojanala Platinum

People aged 15 - 64

| Diagnosed (first 90) | ART exposure (second 90) | Virally suppressed (third 90) |
|-------------------------|-----------------------------|----------------------------------|
| 87.7% | 69.5% | 86.2% |

Overall HIV
Prevalence

16.0%

For people 15 years and older

| | |
|------------------------------|---------------------------|
| Medical Male Circumcision | Condom use at last sex |
| 25.2% | 41.6% |

GAUTENG Province

15 years and older
Medical Male Circumcision
43.6%

People aged 15 - 64

Diagnosed
(first 90)
86.9%

ART exposure
(second 90)
60.9%

Virally suppressed
(third 90)
87.6%

Overall HIV
Prevalence
12.5%

15 years and older
Condom use at last sex
36.9%

GAUTENG District Level

City of Tshwane

People aged 15 - 64

Diagnosed (first 90) **77.4%**

ART exposure (second 90) **55.1%**

Virally suppressed (third 90) **91.1%**

Overall HIV Prevalence **10.5%**

15 years and older Medical Male Circumcision **40.6%**

15 years and older Condom use at last sex **32.2%**

City of JHB

People aged 15 - 64

Diagnosed (first 90) **81.3%**

ART exposure (second 90) **67.2%**

Virally suppressed (third 90) **88.8%**

Overall HIV Prevalence **12.9%**

15 years and older Medical Male Circumcision **50.2%**

Condom use at last sex **33.1%**

Ekurhuleni

People aged 15 - 64

Diagnosed (first 90) **89.0%**

ART exposure (second 90) **59.8%**

Virally suppressed (third 90) **88.9%**

Overall HIV Prevalence **15.0%**

15 years and older Medical Male Circumcision **33.6%**

15 years and older Condom use at last sex **38.6%**

West Rand

People aged 15 - 64

Diagnosed (first 90) **93.6%**

ART exposure (second 90) **69.4%**

Virally suppressed (third 90) **92.0%**

Overall HIV Prevalence **12.3%**

15 years and older Medical Male Circumcision **25.2%**

15 years and older Condom use at last sex **40.1%**

Sedibeng

People aged 15 - 64

Diagnosed (first 90) **81.8%**

ART exposure (second 90) **67.2%**

Virally suppressed (third 90) **92.5%**

15 years and older Medical Male Circumcision **40.6%**

15 years and older Condom use at last sex **49.6%**

Overall HIV Prevalence **12.8%**

MPUMALANGA Province

Overall HIV
Prevalence
17.3%

People aged 15 - 64

| Diagnosed (first 90) | ART exposure (second 90) | Virally suppressed (third 90) |
|-------------------------|-----------------------------|----------------------------------|
| 84.3% | 73.1% | 83.0% |

For people 15 years and older

| | |
|------------------------------|---------------------------|
| Medical Male Circumcision | Condom use at last sex |
| 35.8% | 46.3% |

MPUMALANGA

District Level

Ehlanzeni

Overall HIV
Prevalence

20.0%

People aged 15 - 64

| Diagnosed (first 90) | ART exposure (second 90) | Virally suppressed (third 90) |
|-------------------------|-----------------------------|----------------------------------|
| 90.6% | 73.2% | 84.9% |

For people 15 years and older

| Medical Male Circumcision | Condom use at last sex |
|------------------------------|---------------------------|
| 38.0 | 46.8 |

Gert Sibande

People aged 15 - 64

| Diagnosed (first 90) | ART exposure (second 90) | Virally suppressed (third 90) |
|-------------------------|-----------------------------|----------------------------------|
| 81.2% | 81.2% | 77.0% |

For people 15 years and older

Overall HIV
Prevalence
22.9%

| Medical Male Circumcision | Condom use at last sex |
|------------------------------|---------------------------|
| 38.3% | 49.3% |

LIMPOPO Province

People aged 15 - 64

**Overall HIV
Prevalence**
10.9%

Diagnosed
(first 90) **75.9%**

ART exposure
(second 90) **67.8%**

Virally suppressed
(third 90) **87.6%**

15 years and older
Medical Male Circumcision

26.4%

15 years and older
Condom use at last sex

41.2%

LIMPOPO District Level

SEKHUKHUNE

People aged 15 - 64

HIV
Prevalence
7.5%

Diagnosed
(first 90) **88.6%**

ART exposure
(second 90) **67.6%**

Virally suppressed
(third 90) **80.6%**

15 years and older
Medical Male Circumcision
8.7%

15 years and older
Condom use at last sex
39.9%



Nuances among provinces and districts

- HIV prevalence and behavioural data for the additional selected districts were presented for the first time, yielding 16 districts in total.
- HIV prevalence has increased in all provinces and certain rankings have changed.
- Eastern Cape displayed the fourth highest HIV prevalence and now ranks higher than Gauteng and North West province.
- HIV prevalence remains high in eThekweni (KZN) and Ekurhuleni (Gauteng).
- Four districts in Mpumalanga and KwaZulu-Natal accounted for a fifth of people living with HIV in the 16 selected districts.
- Overall, VL suppression detected in the laboratory tests was below 65% for all people living with HIV, irrespective of whether they were on treatment.

BEHAVIOURAL MEASURES: Sexual Partnerships



Age disparate relationships

Age-disparate relationships among adolescent males and females aged 15–19, South Africa, 2002–2017



Overall, the prevalence of HIV was 7.5% among all respondents who reported being in an age-disparate relationship, with females having higher HIV prevalence (11.7%) than males (3.7%). HIV prevalence among people who were in relationships was higher among respondents aged 15–19, who reported having a partner more than five years older than themselves (16.5%) than those whose partners were aged within five years (5.4%).



Intimate Partner Violence

The most commonly reported acts of IPV among both sexes were:



7.4% vs. 2.8%

Arms twisted || Hair pulled



12.9%

Pushed || Shaken
Objects thrown

More females experienced:

8.5% vs. 2.9%

Females || Kicked,
dragged, beaten up



3.5% vs 1.4% having been forced to
have sex against their will

Compared to people who were not violent towards their partners, among males the difference in HIV status was significant: 28.6% vs 14.1%; $p=0.001$.



BEHAVIOURAL MEASURES: Perceptions, Knowledge & SBCC



Social and Behavioural

Change Communication programmes' exposure, reach and behavioural outcomes



Approximately 15.7 million people (46.6%) were exposed to between 5 and 15 SBCC programmes (moderate exposure).

An estimated population of 5.7 million people (16.8% of respondents) indicated that they had heard, seen, watched or participated in 16 or more of the 43 programmes that were listed and assessed in the survey (high exposure).



92.5% SBCC exposure
HIV tested

68.5% Rejected HIV
transmission myths

78.7% Within the last year
HIV tested

15.4% Two or more
sexual partners

55.6% Medically circumcised
males



ACKNOWLEDGEMENTS



science
& technology
Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA



unicef 

Right
to care

TREATING EARTH'S POOR



SOUL CITY
INSTITUTE
FOR SOCIAL JUSTICE



loveLife



USAID
FROM THE AMERICAN PEOPLE



The Global Fund
TO FIGHT AIDS, TUBERCULOSIS AND MALARIA

U.S. President's Emergency Plan for AIDS Relief (PEPFAR) through the U.S. CDC (Cooperative Agreement #GH001629)
Department of Science and Technology, South African National AIDS Council, Global Fund, Right to Care, UNICEF, Joint
United Nations Programme on HIV and AIDS, Soul City, LoveLife

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THANK
YOU

