AIDS by the Numbers:
Where Do We Stand with 90-90-90?

Peter Ghys, UNAIDS
# Achieving the 90–90–90 Targets, 2016

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<tr>
<th>Country</th>
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<td><strong>First 90</strong></td>
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<td><strong>Viral Load</strong></td>
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**Figure 3.2. Countries that have achieved the 90–90–90 targets or are near to achieving them, most recent country data.**

*Source: UNAIDS special analysis, 2017; see annex on methods for more details.*

1 Data are for 2016, except as follows: 2015: Bulgaria, Germany, Hungary, Netherlands, Sweden, Switzerland, United Kingdom. 2014: Belgium, Canada, Serbia, Spain. 2013: Austria, France. 2012: Italy.

2 Estimates of people living with HIV are supplied by the country and not validated by UNAIDS: Austria, Belgium, Bulgaria, Canada, Denmark, France, Germany, Hungary, Iceland, Italy, Luxembourg, Malta, Netherlands, Portugal, Singapore, Spain, Switzerland, and the United Kingdom

3 Estimates for citizens of the country only.
BOTSWANA HAS ACHIEVED THE 90–90–90 TARGETS

FIGURE 3.10. KNOWLEDGE OF HIV STATUS, ANTIRETROVIRAL THERAPY COVERAGE AND VIRAL SUPPRESSION AMONG PEOPLE LIVING WITH HIV, BOTSWANA, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details.
FIGURE 3.11. HIV TESTING AND TREATMENT CASCADE, AMSTERDAM, 2015

ON TRACK TO 30 MILLION PEOPLE ACCESSING TREATMENT

FIGURE 3.6. NUMBER OF PEOPLE LIVING WITH HIV ON ANTIRETROVIRAL THERAPY, GLOBAL, 2000–2016

CLOSING IN ON THE FAST-TRACK TARGETS

FIGURE 3.1. PROGRESS TOWARDS THE 90–90–90 TARGETS, GLOBAL, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
THE HIV TESTING AND TREATMENT CASCADE

FIGURE 3.4. KNOWLEDGE OF HIV STATUS, TREATMENT COVERAGE AND VIRAL LOAD SUPPRESSION, GLOBAL, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details.
ONE-YEAR GAINS ACROSS THE CASCADE

FIGURE 3.8. KNOWLEDGE OF HIV STATUS, ANTIRETROVIRAL THERAPY COVERAGE AND VIRAL SUPPRESSION AMONG PEOPLE LIVING WITH HIV, GLOBAL, 2015 AND 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details.
Comparison of HIV testing and treatment cascades by region reveals different patterns of progress. Western and central Europe and North America are approaching global targets. Latin America and eastern and southern Africa show high levels of achievement across the cascade. Eastern Europe and central Asia, the Middle East and North Africa, and western and central Africa are clearly on track.

Source: UNAIDS special analysis, 2017; see annex on methods for more details.

* Cascade for the western and central Europe and North America region is for 2015.
SLOWING SCALE-UP OF PAEDIATRIC TREATMENT

FIGURE 3.13. NUMBER OF CHILDREN AGED 0–14 YEARS ACCESSING ANTIRETROVIRAL THERAPY, GLOBAL, 2000–2016 PLUS 2018 TARGET

LARGER GAPS FOR YOUNG PEOPLE ACROSS THE CASCADE


LOWER AWARENESS OF HIV STATUS AMONG YOUNG PEOPLE LIVING WITH HIV

FIGURE 3.15. HPTN 071 (POPART) TRIAL: KNOWLEDGE OF HIV STATUS AMONG MEN AND WOMEN LIVING WITH HIV, BY AGE, BEFORE COMMUNITY-BASED SERVICES, ZAMBIA, NOVEMBER 2013 TO JUNE 2015


* Data are extrapolated to the total adult population.
TREATMENT COVERAGE LOWER AMONG MEN

FIGURE 3.17. ANTIRETROVIRAL THERAPY COVERAGE AMONG ADULTS LIVING WITH HIV AGED 15 YEARS AND OLDER, BY SEX, BY REGION, 2016

ALARMING GAPS IN THE 90–90–90 CONTINUUM AMONG KEY POPULATIONS

<table>
<thead>
<tr>
<th>Population</th>
<th>Of people living with HIV know their status</th>
<th>Of people living with HIV who know their status are on treatment</th>
<th>Of people on treatment are virally suppressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gay men and other men who have sex with men, Moscow</td>
<td>13%</td>
<td>36%</td>
<td>64%</td>
</tr>
<tr>
<td>People who inject drugs, India</td>
<td>41%</td>
<td>52%</td>
<td>83%</td>
</tr>
<tr>
<td>Gay men and other men who have sex with men, India</td>
<td>30%</td>
<td>68%</td>
<td>78%</td>
</tr>
</tbody>
</table>

FIGURE 3.20. 90–90–90 AMONG KEY POPULATIONS IN INDIA AND THE RUSSIAN FEDERATION, 2013.

FIGURE 4.2. RECOMMENDED ANTIRETROVIRAL THERAPY INITIATION THRESHOLD AMONG PEOPLE LIVING WITH HIV PER MINISTRY OF HEALTH GUIDELINES, BY COUNTRY, GLOBAL, 2016

Drawing on the rapidly growing body of data demonstrating the clear preventive and therapeutic effects of early antiretroviral therapy, the World Health Organization (WHO) recommended in 2015 that antiretroviral therapy should be initiated in every person living with HIV at any CD4 cell count. Among the 194 countries that reported information to WHO and UNAIDS in 2016, 123 of them—including 29 of 35 Fast-Track countries—had adopted this treat all approach within their national HIV treatment guidelines. Among the remaining reporting countries, eight continue to limit treatment to people living with HIV who have a CD4 count of 350 cells/mm³ or lower.

Conclusion

• Much progress

• Evidence that 909090 is possible

• Data gaps to fill: e.g. awareness, viral suppression, timeliness
DECLINE IN DEATHS MORE RAPID AMONG WOMEN

FIGURE 2.1. AIDS-RELATED DEATHS, ALL AGES, GLOBAL, 2000–2016
Source: UNAIDS 2017 estimates

FIGURE 2.2. AIDS-RELATED DEATHS BY SEX, ALL AGES, GLOBAL, 2000–2016
Source: UNAIDS 2017 estimates
REDUCTIONS IN NEW INFECTIONS ARE OFF TARGET

FIGURE 2.4. NEW HIV INFECTIONS, ALL AGES, GLOBAL, 1990–2016 AND 2020 TARGET

Source: UNAIDS 2017 estimates.

*The 2020 target is fewer than 500,000 new HIV infections, equivalent to a 75% reduction since 2010.
STEEP DECLINES IN EASTERN AND SOUTHERN AFRICA
ALARMING RISE IN IN EASTERN EUROPE AND CENTRAL ASIA

FIGURE 2.7. NEW HIV INFECTIONS, ALL AGES, GLOBAL, 1990–2016 AND 2020 TARGET

Source: UNAIDS 2017 estimates.
6. EASTERN AND SOUTHERN AFRICA

PROGRESS TOWARDS THE 90–90–90 TARGETS

- 76% [61–86%] of people living with HIV know their status
- 79% [64–89%] of people living with HIV who know their status are on treatment
- 83% [67–>89%] of people on treatment are virally suppressed

FIGURE 6.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, EASTERN AND SOUTHERN AFRICA, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details

UNAIDS
FIGURE 7.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, WESTERN AND CENTRAL AFRICA, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
8. ASIA AND THE PACIFIC

PROGRESS TOWARDS THE 90–90–90 TARGETS

- 71% [47–89%] of people living with HIV know their status
- 66% [44–89%] of people living with HIV who know their status are on treatment
- 83% [55–89%] of people on treatment are virally suppressed

FIGURE 8.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, ASIA AND THE PACIFIC, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
9. LATIN AMERICA

PROGRESS TOWARDS THE 90–90–90 TARGETS

- 81% [58– >89%] of people living with HIV know their status
- 72% [52–89%] of people living with HIV who know their status are on treatment
- 79% [57– >89%] of people on treatment are virally suppressed

FIGURE 9.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, LATIN AMERICA, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
10. CARIBBEAN

PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGETS

- 64% [51–74%] of people living with HIV know their status
- 81% [64–>89%] of people living with HIV who know their status are on treatment
- 67% [53–77%] of people on treatment are virally suppressed

FIGURE 10.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, CARIBBEAN, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
11. MIDDLE EAST AND NORTH AFRICA

PROGRESS TOWARDS THE 90–90–90 TARGETS

58% [37–>89%]  
of people living with HIV know their status

41% [26–71%]  
of people living with HIV who know their status are on treatment

66% [42–>89%]  
of people on treatment are virally suppressed

FIGURE 11.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, MIDDLE EAST AND NORTH AFRICA, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
12. EASTERN EUROPE AND CENTRAL ASIA

PROGRESS TOWARDS THE 90–90–90 TARGETS

63% [49–72%]

of people living with HIV
know their status

45% [35–52%]

of people living with HIV
who know their status
are on treatment

77% [61–>89%]

of people on
treatment are
virally suppressed

FIGURE 12.1. PROGRESS TOWARDS THE 90–90–90 TREATMENT TARGET, EASTERN EUROPE AND CENTRAL ASIA, 2016

Source: UNAIDS special analysis, 2017; see annex on methods for more details
13. Western and Central Europe and North America

Progress Towards the 90–90–90 Treatment Targets, Western and Central Europe and North America, 2016

- 85% of people living with HIV know their status
- >89% of people living with HIV who know their status are on treatment
- 84% of people on treatment are virally suppressed

Source: UNAIDS special analysis, 2017; see annex on methods for more details