COMMUNITIES AT THE CENTRE

THE RESPONSE TO HIV IN WESTERN AND CENTRAL EUROPE AND NORTH AMERICA

GLOBAL AIDS UPDATE 2019

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WESTERN AND CENTRAL EUROPE AND NORTH AMERICA

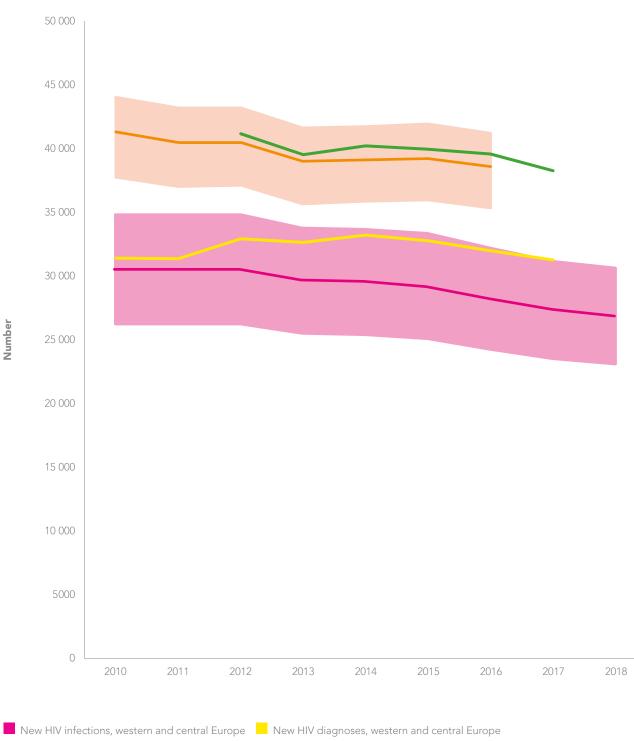
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FIGURE 17.1 Estimated new HIV infections and reported new HIV diagnoses in western and central Europe and the United States of America, 2010–2018



New HIV infections, United States of America 📃 New HIV diagnoses, United States of America

Source: Estimates of new HIV infections: UNAIDS estimates, 2019. New HIV diagnoses data for western and central Europe, including European Union countries and Israel, Serbia, Switzerland and Turkey were abstracted from: European Centre for Disease Prevention and Control, World Health Organization (WHO) Regional Office for Europe. HIV/AIDS surveillance in Europe 2018. 2017 data. Copenhagen: WHO Regional Office for Europe; 2018 (https://ecdc.europa.eu/sites/portal/files/documents/hiv-aids-surveillance-europe-2018.pdf, accessed 4 July 2019). Trends in new diagnoses and new infections for western and central Europe exclude data for Germany, where data were not reported for 2017. New HIV diagnoses for the United States abstracted from: HIV surveillance report. Diagnoses of HIV infection in the United States and dependent areas, 2017. Volume 29. Atlanta (GA): Centers for Disease Control and Prevention; 2018 (http://www.cdc. gov/hiv/library/reports/hiv-surveillance.html, accessed 5 July 2019).

WESTERN AND CENTRAL EUROPE AND NORTH AMERICA

AT A GLANCE

This high-income region appears to be on track to meet the 90–90–90 targets. However, efforts to prevent HIV infections have not achieved sufficient impact. Western and central Europe as a whole has exceeded the viral load suppression target of 73% of all people living with HIV, but progress is not uniform among countries. Key populations and their sexual partners accounted for 88% of HIV infections in 2018, with gay men and other men who have sex with men accounting for more than half of all HIV infections. Comprehensive harm reduction programmes in western and central Europe have pushed new HIV diagnoses among people who inject drugs to an all-time low. The United States has led the world in the roll-out of PrEP, with more than 130 000 current users in mid-2019, nearly half of the global total.

The high-income region of western and central Europe and North America provides a level of health care to people living with HIV that appears to be on track to meet the 90–90–90 targets. However, efforts to prevent HIV infections have not achieved sufficient impact. Between 2010 and 2016, the decline in annual new HIV infections in the United States was 7%, and in western and central Europe annual new infections fell by 12% between 2010 and 2018 (Figure 17.1). The United States accounted for more than half (57%) of new infections in the region in 2016, the latest year for which data are available.

The annual number of people newly diagnosed in western and central Europe and the United States was higher than the annual number of new HIV infections, indicating that the number of people living with HIV who are undiagnosed has declined over time. When testing coverage is high, changes in new HIV diagnoses are preceded by earlier changes in the underlying incidence of HIV infection. In western and central Europe, the gap between new HIV infections and diagnoses is wider, although the gap narrowed between 2016 and 2017.

In 2019, the United States launched an ambitious plan to reduce the number of new HIV infections in the country by 75% within five years, and then by at least 90% within 10 years, for an estimated 250 000 total HIV infections averted (1). The plan calls for an intensified use of case reports and other data to focus efforts on the counties and populations in greatest need with evidence-informed HIV prevention and treatment, including pre-exposure prophylaxis (PrEP) for people at higher risk of HIV infection and antiretroviral therapy to achieve viral load suppression among people living with HIV.

STATE OF THE EPIDEMIC

FIGURE 17.2 Number of new HIV infections, western and central Europe and North America, 2000–2018

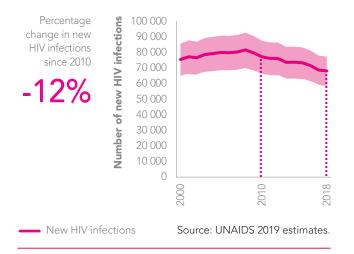
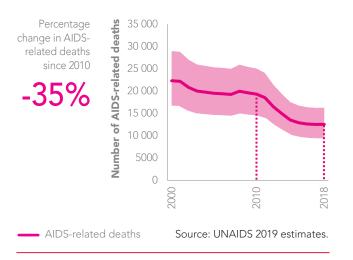
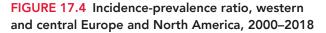
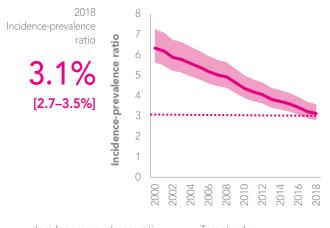


FIGURE 17.3 Number of AIDS-related deaths, western and central Europe and North America, 2000–2018







Incidence-prevalence ratio

Source: UNAIDS 2019 estimates

The estimated number of new HIV infections in western and central Europe and North America has declined over the past decade, but the pace of decline is insufficient to reach the region's 2020 target (Figure 17.2). Reductions in AIDS-related deaths have been stronger, reaching 13 000 [9000–16 000] in 2018 (Figure 17.3). The region's incidence-prevalence ratio has steadily declined, to 3.1% [2.7–3.5%] in 2018, meaning that the UNAIDS benchmark of 3.0% has nearly been met (Figure 17.4).

National trends in HIV infections within the region varied. Denmark, Norway, Portugal and Spain have achieved steep declines in the number of annual infections, while Bulgaria, Czechia, Poland and Slovakia have seen annual HIV infections rise precipitously (Figure 17.5). In the cases of Bulgaria, Czechia and Slovakia, each country had less than 500 infections in 2018.

Key populations and their sexual partners accounted for 88% of HIV infections in 2018, with gay men and other men who have sex with men accounting for more than half of all HIV infections (Figure 17.1). In Europe, there is a growing divide between countries in the western and central subregions. In western Europe, new HIV diagnoses among gay men and other men who have sex with men were declining rapidly in several countries, while in eastern Europe there have been increases in new diagnoses among that key population. Median HIV prevalence among gay men and other men who have sex with men among 21 countries that reported data was 6.7%, with six countries reporting HIV prevalence above 10% (Figure 17.6).

New HIV diagnoses among people who inject drugs are at an all-time low in western and central Europe, representing only 4.6% of all new HIV diagnoses with known transmission mode in 2017, showing the effectiveness of comprehensive harm reduction programmes (2). However, local HIV outbreaks continue to occur, demonstrating the importance of keeping harm reduction at high coverage and addressing new challenges, such as stimulant injecting and chemsex. Median HIV prevalence among people who inject drugs in 22 countries that reported data was 1.9%, with three countries reporting HIV prevalence above 20%.

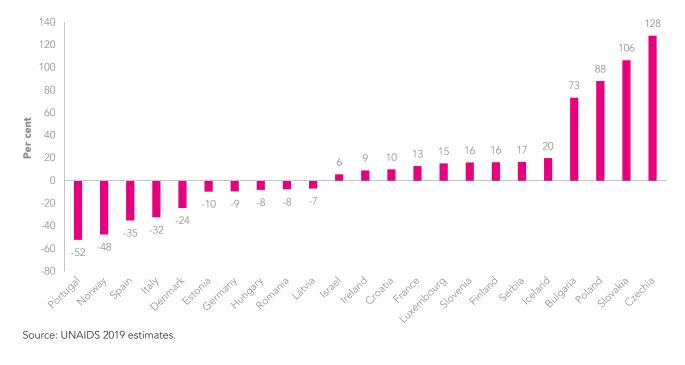
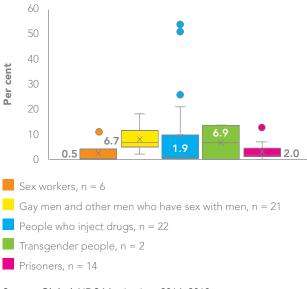
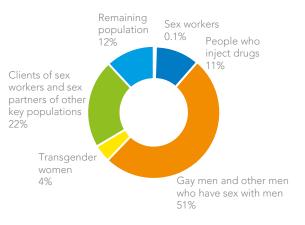


FIGURE 17.5 Percentage change in new HIV infections, by country, western and central Europe and North America, 2010–2018

FIGURE 17.6 HIV prevalence among key populations, western and central Europe and North America, 2014–2018

FIGURE 17.7 Distribution of new HIV infections (aged 15–49 years), by population group, western and central Europe and North America, 2018





Source: UNAIDS special analysis, 2019.

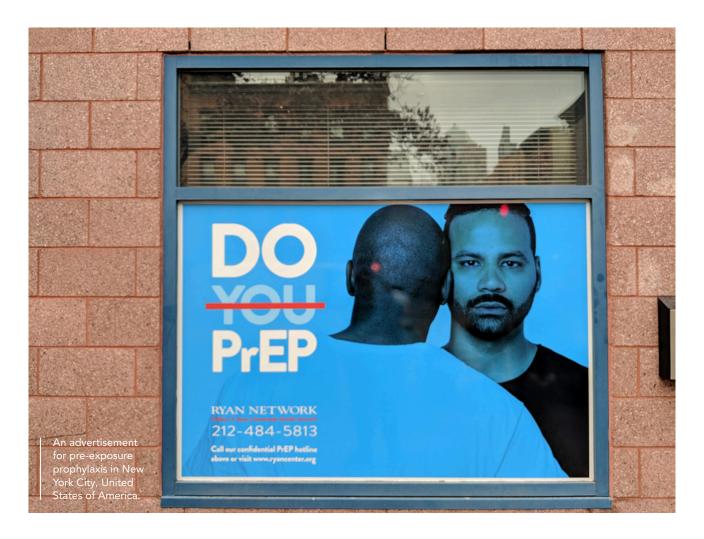
Source: Global AIDS Monitoring, 2014–2018.

Country	National adult population (15+)	Sex workers	Sex workers as per cent of adult population (15+)	Gay men and other men who have sex with men	Gay men and other men who have sex with men as per cent of adult population (15+)	People who inject drugs	People who inject drugs as per cent of adult population (15+)	Transgender people	Transgender people as per cent of adult population (15+)	Prisoners	Prisoners as per cent of adult population (15+)
Canada	31 004 000									14 000	0.05
Czechia	8 974 000									22 000	0.24
Estonia	1 088 000									2100	0.20
Israel	6 107 000										
Serbia	7 331 000										
United States of America	265 224 000							1 000 000	0.38		

TABLE 17.1 Estimated size of key populations, western and central Europe and North America, 2018

National population size estimate 📃 Local population size estimate 📃 Insufficient data 📃 No data

Sources: Global AIDS Monitoring, 2018; United Nations, Department of Economic and Social Affairs, Population Division. World population prospects: the 2017 revision. 2018 (custom data acquired via website).



THE CASCADE FROM HIV TESTING TO VIRAL SUPPRESSION

Of the estimated 2.2 million [1.9 million–2.4 million] people living with HIV in the region in 2018, 88% [75– >95%] knew their status, 79% [60–92%] were on treatment and 64% [54–74%] were virally suppressed—progress that appears to be on track to meet the 90–90–90 targets (Figure 17.8). Western and central Europe has exceeded the viral load suppression target of 73% of all people living with HIV (Figure 17.10), but progress varies among countries across the region (Table 17.2). There is a need for more disaggregated data on access to testing and treatment among key populations.

According to the latest available data, viral load suppression in the United States remains worryingly low, although an estimated 76% of people who received an HIV diagnosis in 2016 were linked to HIV medical care within one month (*3*). Late HIV diagnoses remain a challenge in western and central Europe. Among adults (aged 15 years and older) newly diagnosed for whom information about CD4 cell count at the time of HIV diagnosis was available, just over half (53%) were late presenters, with CD4 cell counts below 350 cells/mm³, including 32% with advanced HIV infection (CD4 below 200 cells/ mm³). The percentage of people newly diagnosed who were late presenters varied across transmission categories and age groups. The percentage of late presenters at diagnosis was highest for people with reported heterosexual transmission (62% for men with heterosexual transmission and 54% for women with heterosexual transmission) and for people who acquired HIV through injecting drug use (55%), and it was lowest for gay men and other men who have sex with men (39%). The percentage of late presenters at diagnosis increased with age, ranging from 34% and 32% among people aged 15–19 years and 20–24 years, respectively, to 66% among those aged 50 years or older (4).

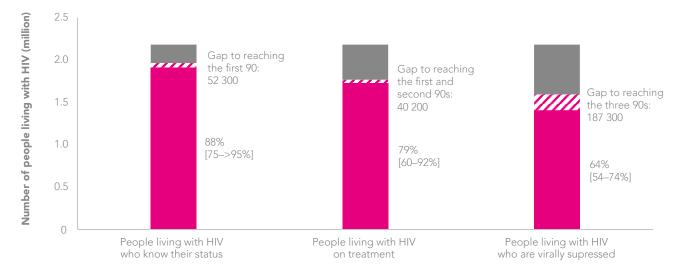


FIGURE 17.8 HIV testing and treatment cascade, western and central Europe and North America, 2018

Source: UNAIDS special analysis, 2019; see annex on methods for more details.

TABLE 17.2 90–90–90 country scorecard, western and central Europe and North America, 2018^{1,2}

	per pe	First 90 centag ople liv h HIV v w their status	e of ing vho	per peop HIV w status	econd 9 rcentage ble living ho knov s and wl	e of with w their ho are	of p w treatr	90: perc people I vith HIV nent wh pressed loads	iving on io have	su per pe with	/iral loa ppressi centag ople liv HIV wł y suppr	ion: je of ving no are ressec
	All ages	Women (15 years and older)	Men (15 years and older)	All ages	Women (15 years and older)	Men (15 years and older)	All ages	Women (15 years and older)	Men (15 years and older)	All ages	Women (15 years and older)	Men (15 years and older)
Western and central Europe and North America	88			90			81			64		
Andorra												
Austria				93			86					
Belgium												
Bulgaria	83	>95	79	50	36	54	94	>95	94	39	33	40
Canada										10		
Croatia							90			68		
Cyprus Czechia	41			>95						E 1		
Czechia Denmark	61 90	91	90	>95 95	>95	94	>95			51 85		
Estonia	83	91	90 77	71	71	70	>93 90	90	90	53	60	49
Finland	91	91	91	84	83	84	88	70	70	67	00	4/
France	88	87	88	92	88	93	93	>95	92	75	74	75
Germany	87	88	87	93	94	92	95	95	95	77	79	76
Greece												
Hungary	90	64	95	62	64	61						
Iceland	80	>95	74	>95	>95	>95	95	>95	95	76	92	70
Ireland	90	86	92	89	88	88	95	95	95	76	72	77
Israel	87	90	86									
Italy	92	85	94	87	91	86	87	95	84	70	74	68
Kosovo												
Latvia												
Liechtenstein												-
Lithuania	0.(07	07	00	00	00	00	0/		(0	17	10
Luxembourg Malta	86	87	86	89	90	89	89 87	86	90	68	67	69
Monaco				>95	>95	>95	>95	>95	>95			
Netherlands	90	>95	88	93	90	93	94	92	94	78	80	78
Norway	>95	>95	>95	84	84	84		12		/ 0		
Poland												
Portugal	89			>95								
Romania	87	>95	80	78	73	80	80	80	80	54	57	51
San Marino												
Serbia	86	86	86	76	76	76						
Slovakia	69	51	72	78	94	76	86	85	86	46	41	47
Slovenia	-											
Spain	86	85	86	93	>95	93	90	93	90	73	76	72
Sweden				>95			95					
Switzerland				>95			>95					
Turkey United Kingdom	92			>95			>95			87		
United States of America	12			-75			-75			- 07		-
	1	1			1	1		1		1	1	1

 Selected data for western and central Europe provided by the European Centres for Disease Control and Prevention Dublin Declaration reporting.
 All estimates are for 2018 except as follows: 2016: Austria, Denmark, France, Italy and Spain; 2017: Germany, Israel, Luxembourg, Netherlands, Portugal, Switzerland and the United Kingdom

Source: UNAIDS special analysis, 2019.

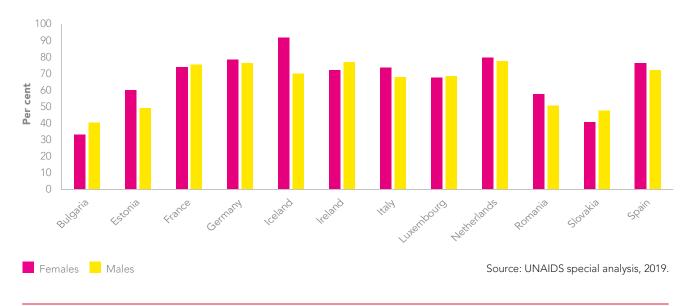
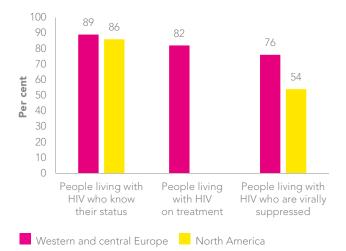


FIGURE 17.9 Viral load suppression among adults (aged 15 years and older) living with HIV, by sex, western and central Europe, 2018

FIGURE 17.10 HIV testing and treatment cascade, western and central Europe and North America

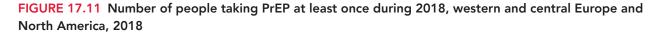


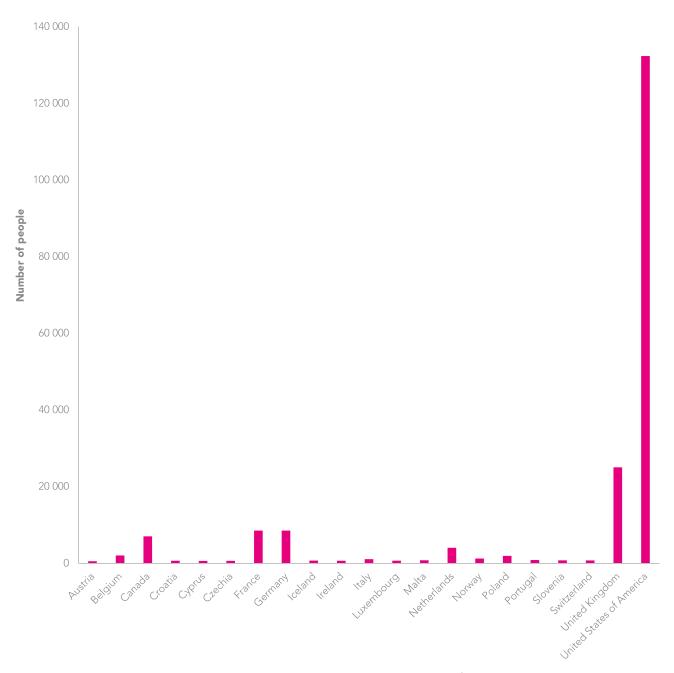
Note: Estimates of the HIV testing and treatment cascades are for the latest year of published data (2016 for North America and 2018 for western and central Europe). The estimate of the percentage of people living with HIV on treatment in the United States is not available for 2016, and the value for the area is excluded.

Source: UNAIDS special analysis, 2019; and Monitoring selected national HIV prevention and care objectives by using HIV surveillance data. United States and 6 dependent areas, 2017. Volume 24, number 3. Atlanta (GA): Centers for Disease Control and Prevention; 2019 (https://www.cdc.gov/hiv/pdf/library/ reports/surveillance/cdc-hiv-surveillance-supplemental-reportvol-24-3.pdf, accessed 5 July 2019).

A COMBINATION APPROACH TO PREVENTION

The United States has led the world in the roll-out of PrEP, with more than 130 000 current users in mid-2019, nearly half of the global total (Figure 17.11). The United Kingdom of Great Britain and Northern Ireland had about 25 000 active PrEP users in 2019. In San Francisco and London, PrEP scale-up and high rates of viral suppression among people living with HIV have been attributed to a decline in new HIV diagnoses (5, 6).







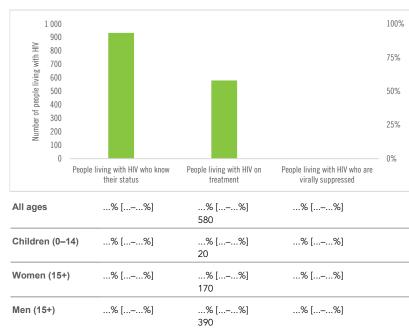
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KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					3000
HIV prevalence					
Know their HIV status					
Antiretroviral therapy coverage					
Condom use					
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	5 [3–7]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years (2017)	
— Women	35.1%
— Men	20.1%
Condom use at last sex with a non-marital, non-cohabiting partner (2017)	
— Women	18.1%
— Men	58%
Women aged 15–49 years who have their demand for family planning satisfied by modern methods (2018)	6.3%
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
•	
during the reporting period	
during the reporting period Harm reduction — Use of sterile injecting equipment at	
during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	
during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2018) — Coverage of opioid substitution	 12

EXPENDITURES

		Finar	ncing sources			
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2005		\$1 110 357				\$2 376 957

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	Any criminalization or punitive regulation of sex work
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	No
Criminalization of transgender people	Neither criminalized nor prosecuted
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	Yes, for adolescents younger than 18 years
Spousal consent for married women to access sexual and reproductive health services	No

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes	2018
towards people living with HIV	68.5
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months	
Percentage of people living with HIV who	

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

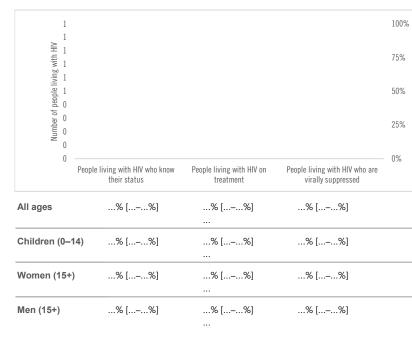
VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence			2.0%		
Know their HIV status		93.0%			
Antiretroviral therapy coverage		74.0%	83.1%		
Condom use					
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	29 [16–45]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period (2017)	116
•	116
during the reporting period (2017)	
during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at	
during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	
during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2016) — Coverage of opioid substitution	 464

EXPENDITURES

Financing sources							
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total	
Last available report:							

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

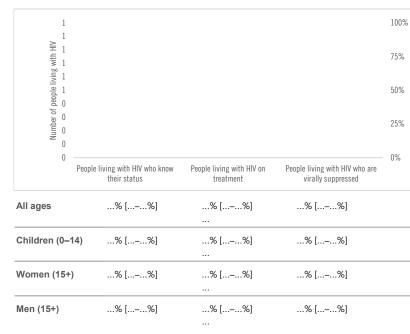
VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

KEY POPULATIONS

		Gay men and other men who have sex with men		
Estimated size of population			 	
HIV prevalence	0.7%	12.3%	 	
Know their HIV status			 	
Antiretroviral therapy coverage			 	
Condom use		60.7%	 	
Coverage of HIV prevention programmes			 	
Avoidance of health care because of stigma and discrimination			 	
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	88 [73–100]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects (2015) 	37
 Coverage of opioid substitution therapy (2016) 	27.7%
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

EXPENDITURES

Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2010		\$159 087 442				\$159 087 442

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	· · · ·
Spousal consent for married women to access sexual and reproductive health services	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
New HIV infections (0–14)			
	[–]	[-]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
New HIV infections (men, 15+)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
HIV incidence per 1000 population	<0.01 [<0.01-<0.01]	0.01 [<0.01-<0.01]	0.01 [<0.01- <0.01]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
AIDS-related deaths (0–14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
People living with HIV			
People living with HIV (all ages)	<200	<500	<500
	[<200– <200]	[<500– <500]	[<500– <500]
People living with HIV (0-14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
People living with HIV (men, 15+)	<200	<500	<500
	[<200– <200]	[<200– <500]	[<500– <500]
HIV prevalence (15–49)	<0.1 [<0.1–<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1- <0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	Yes
Parental consent for adolescents to access HIV testing	· · · ·
Spousal consent for married women to access sexual and reproductive health services	
Mandatana UD/ taatina fan maniana wank an	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

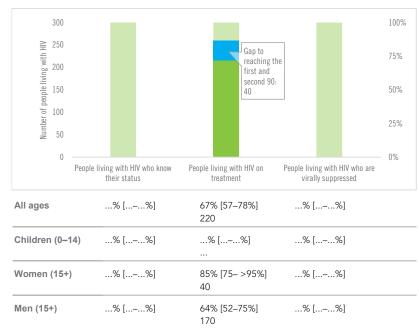
Financing sources						
			International: PEPFAR			
Last available report: 2009		\$300 000		\$2 739 829	\$156 885	\$3 584 302



KEY POPULATIONS

Estimated size of population				
HIV prevalence	0.0%	1.1%	0.0%	
Know their HIV status				
Antiretroviral therapy coverage		47.8%	1.9%	
Condom use	80.4%	62.4%	35.2%	
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination				
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV	%	%
accessing antiretroviral medicines	[-%]	[–%]
Early infant diagnosis	%	%
Larry maint diagnosis	[–%]	[–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	1 [1–2]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
performed according to national standards People who received PrEP at least once	applicable
performed according to national standards People who received PrEP at least once during the reporting period	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction - Use of sterile injecting equipment at last injection (2015) - Needles and syringes distributed per	applicable 92.7%
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection (2015) — Needles and syringes distributed per person who injects (2016) — Coverage of opioid substitution	applicable 92.7% 142

	2010	2015	2018
New HIV infections			
	<500	<500	<500
New HIV infections (all ages)	[<200- <500]	[<500-<500]	[<500-<500]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
New III mections (women, 15.)	[<100-<100]	[<100-<100]	[<100-<200]
	<200	<500	<500
New HIV infections (men, 15+)	[<200-<200]	[<500-<500]	[<500-<500]
HIV incidence per 1000 population	0.03 [0.03–0.03]	0.04 [0.03–0.05]	0.05 [0.04–0.07]
AIDS-related deaths			
AIDS related deaths (all area)	<100	<100	<100
AIDS-related deaths (all ages)	[<100-<100]	[<100-<100]	[<100-<100]
AIDS-related deaths (0–14)			
	[–]	[]	[]
AIDS-related deaths (women, 15+)	<100	<100	<100
Albo-related deaths (women, 151)	[<100-<100]	[<100-<100]	[<100-<100]
	<100	<100	<100
AIDS-related deaths (men, 15+)	[<100- <100]	[<100-<100]	[<100-<100]
People living with HIV			
	1700	2700	3500
People living with HIV (all ages)	[1600–1900]	[2400–3000]	[3000–4100]
People living with HIV (0–14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	<500	590	750
reopie invitig with riv (wonien, 15*)	[<500-<500]	[530–650]	[650–860]
	1400	2100	2800
People living with HIV (men, 15+)	[1300–1500]	[1900–2400]	[2300–3200]
HIV prevalence (15–49)	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1–0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

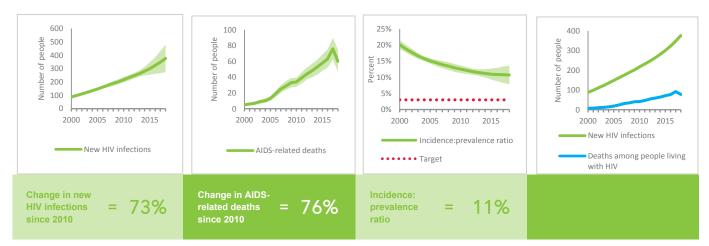
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

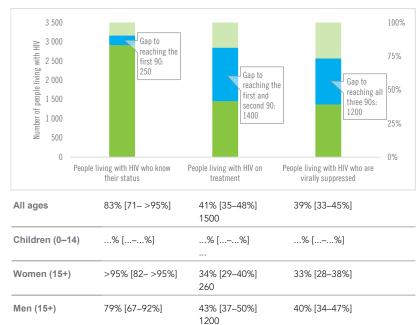
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2017						\$20 128 659



KEY POPULATIONS

Estimated size of population				
HIV prevalence	0.3%	3.7%	1.7%	 1.7%
Know their HIV status	99.6%	98.5%	100%	
Antiretroviral therapy coverage				 0.2%
Condom use	92.0%	80.5%	34.3%	
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination				
Expenditures (2015)	\$358 976	\$199 337	\$473 372	

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	4 [3–5]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	<0.1%
Knowledge of HIV prevention among young people aged 15–24 years (2016)	
— Women	19.9%
— Men	17.6%
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection (2016) 	72.9%
 Needles and syringes distributed per person who injects (2017) 	52
 Coverage of opioid substitution therapy (2016) 	26%
	26%

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)			
	[–]	[–]	[–]
New HIV infections (men, 15+)			
	[–]	[–]	[=]
HIV incidence per 1000 population	0.02 [0.02–0.02]	0.02 [0.02–0.02]	0.02 [0.02–0.02]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
AIDS-related deaths (0-14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)			
	[–]	[–]	[–]
AIDS-related deaths (men, 15+)			
	[–]	[–]	[–]
People living with HIV			
People living with HIV (all ages)	1000	1400	1600
	[930–1100]	[1200–1500]	[1400–1700]
People living with HIV (0–14)			
	[–]	[–]	[=]
People living with HIV (women, 15+)			
	[–]	[–]	[–]
People living with HIV (men, 15+)			
	[–]	[–]	[–]
HIV prevalence (15–49)	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage, work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

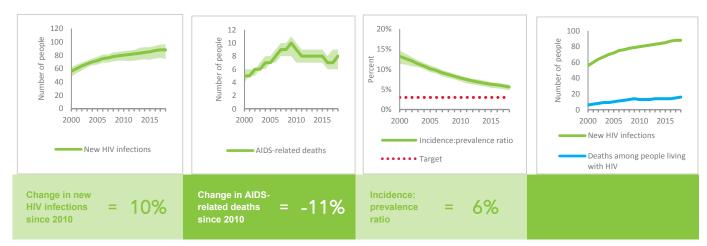
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

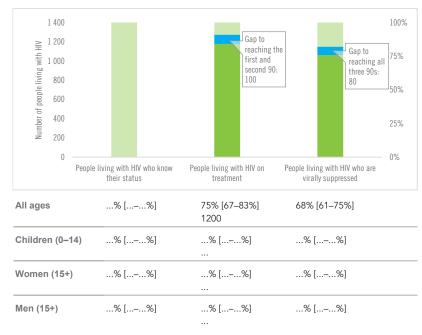
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2013		\$14 362 023				\$14 363 785



KEY POPULATIONS

Estimated size of population	 		
HIV prevalence	 2.8%	0.2%	
Know their HIV status	 		
Antiretroviral therapy coverage	 		
Condom use	 45.1%		
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	8 [4–13]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	<0.1%
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects 	
 Coverage of opioid substitution therapy (2016) 	55%
— Naloxone available (2019)	
 Naloxone available (2019) Safe injection rooms available (2019) 	

	2010	2015	2018
New HIV infections	2010	2013	2010
New HIV Infections		.500	500
New HIV infections (all ages)	<500	<500	<500
	[<200-<500]	[<500- <500]	[<500–580]
New HIV infections (0–14)			
	[]	[]	[]
New HIV infections (women, 15+)	<100	<100	<100
	[<100-<100]	[<100- <100]	[<100-<100]
New HIV infections (men, 15+)	<200	<500	<500
	[<200-<500]	[<500- <500]	[<500–520]
HIV incidence per 1000 population	0.02 [0.02–0.02]	0.03 [0.03–0.04]	0.05 [0.04–0.05]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
nibo Tolatou uoatilo (all'agoo)	[<100- <100]	[<100- <100]	[<100-<100]
AIDS-related deaths (0–14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100- <100]	[<100-<100]	[<100- <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
AIDS-related deaths (men, 15+)	[<100-<100]	[<100-<100]	[<100-<100]
People living with HIV			
People living with HIV (all ages)	1800	3100	4400
eople living with fire (all ages)	[1500–2000]	[2700–3600]	[3700–5000]
People living with HIV (0–14)			
· · · · · · · · · · · · · · · · · · ·	[]	[–]	[–]
People living with HIV (women, 15+)	<500	<500	<500
copic initig with the (women, 101)	[<500-<500]	[<500-<500]	[<500–540]
People living with HIV (men, 15+)	1500	2700	3900
	[1300–1800]	[2300–3200]	[3200–4500]
HIV prevalence (15–49)	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, non-disclosure of or exposure to HIV transmission $% \left({{{\rm{Tr}}_{{\rm{s}}}}_{{\rm{s}}}} \right) = {{\rm{Tr}}_{{\rm{s}}}} \left({{{\rm{s}}_{{\rm{s}}}}_{{\rm{s}}}} \right)$

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	The law allows possession of a certain amount of drugs
Criminalization of transgender people	Neither criminalized nor prosecuted
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	No
Mandatory HIV testing for marriage, work or	

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

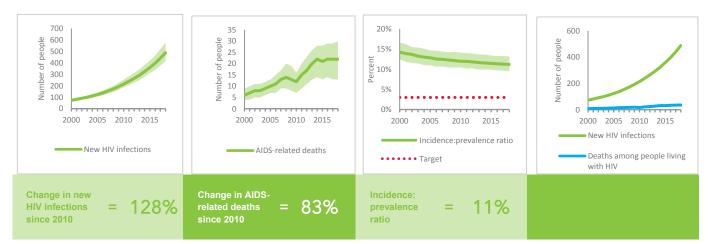
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

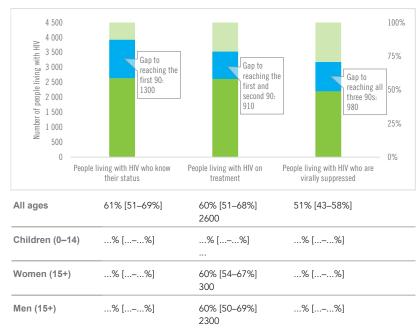
Financing sources						
			International: PEPFAR			
Last available report: 2009	\$836 737	\$66 970 753			\$2 340 368	\$70 147 859



KEY POPULATIONS

Estimated size of population				 22 000
HIV prevalence	0.0%		0.1%	
Know their HIV status	100%	87.7%	55.1%	
Antiretroviral therapy coverage		95.9%		
Condom use		43.0%	24.6%	
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination				
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	8 [5–12]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
performed according to national standards People who received PrEP at least once	applicable
performed according to national standards People who received PrEP at least once during the reporting period (2018)	applicable
People who received PrEP at least once during the reporting period (2018) Harm reduction — Use of sterile injecting equipment at	applicable
performed according to national standards People who received PrEP at least once during the reporting period (2018) Harm reduction - Use of sterile injecting equipment at last injection (2016) - Needles and syringes distributed per	applicable 70 47.8%
 performed according to national standards People who received PrEP at least once during the reporting period (2018) Harm reduction Use of sterile injecting equipment at last injection (2016) Needles and syringes distributed per person who injects (2018) Coverage of opioid substitution 	applicable 70 47.8% 147

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<200	<200	<200
	[<200– <200]	[<200– <200]	[<200– <200]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
New HIV infections (men, 15+)	<200	<200	<200
	[<200– <200]	[<200– <200]	[<200- <200]
HIV incidence per 1000 population	0.03 [0.03–0.03]	0.02 [0.02–0.02]	0.02 [0.02–0.02]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
AIDS-related deaths (0-14)			
	[–]	[–]	[]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
People living with HIV			
People living with HIV (all ages)	5500	6000	6200
	[5000–6200]	[5400–6700]	[5600–7000]
People living with HIV (0–14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	1500	1600	1600
	[1300–1700]	[1400–1800]	[1400–1800]
People living with HIV (men, 15+)	4000	4400	4600
	[3600–4600]	[3900–5000]	[4100–5200]
HIV prevalence (15–49)	0.1 [0.1–0.2]	0.1 [<0.1–0.1]	0.1 [<0.1–0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage work or	

...

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

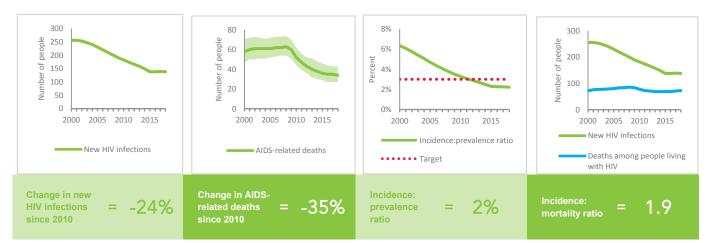
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

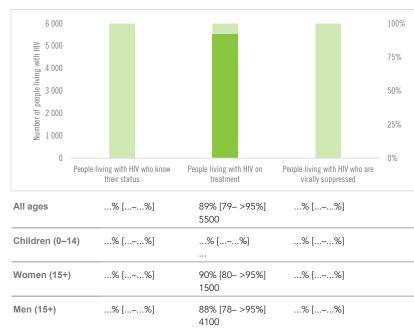
		Fina	ncing sources			
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence		5.0%	4.0%		
Know their HIV status					
Antiretroviral therapy coverage					
Condom use					
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	9 [7–11]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects 	
 Coverage of opioid substitution therapy (2017) 	50%
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<500	<500	<500
	[<500– <500]	[<500– <500]	[<500– <500]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<200	<200	<100
	[<100- <200]	[<100- <200]	[<100– <200]
New HIV infections (men, 15+)	<500	<500	<200
	[<200– <500]	[<200– <500]	[<200– <500]
HIV incidence per 1000 population	0.25 [0.21–0.29]	0.24 [0.2–0.27]	0.23 [0.19–0.27]
AIDS-related deaths			
AIDS-related deaths (all ages)	<200	<100	<100
	[<200– <200]	[<100– <200]	[<100– <200]
AIDS-related deaths (0–14)			
	[–]	[–]	[-]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <200]	[<100– <100]	[<100– <100]
People living with HIV			
People living with HIV (all ages)	6000	6800	7400
	[5100–6700]	[6000–7600]	[6600–8200]
People living with HIV (0–14)			
	[–]	[–]	[-]
People living with HIV (women, 15+)	2100	2400	2600
	[1800–2400]	[2100–2700]	[2300–2900]
People living with HIV (men, 15+)	3900	4400	4800
	[3200–4500]	[3800–5000]	[4100–5300]
HIV prevalence (15–49)	0.7 [0.6–0.8]	0.8 [0.7–0.9]	0.9 [0.7–0.9]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

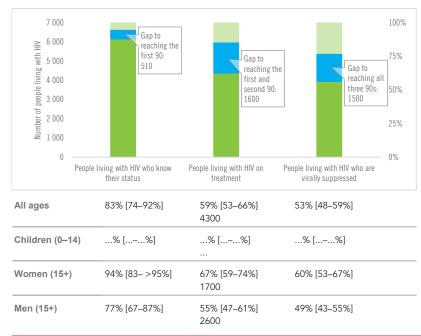
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2010		\$16 353 142				\$16 353 142



KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					2100
HIV prevalence		5.5%	51.4%		13.0%
Know their HIV status		58.8%	72.6%		
Antiretroviral therapy coverage			90.6%		
Condom use	96.7%	53.9%	36.0%		
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	17 [15–20]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	0.3%	
Knowledge of HIV prevention among young people aged 15–24 years		
— Women		
— Men		
Condom use at last sex with a non-marital, non-cohabiting partner		
— Women		
— Men		
Women aged 15–49 years who have their demand for family planning satisfied by modern methods		
Men aged 15–49 years who are circumcised	Not applicable	
Voluntary medical male circumcisions performed according to national standards	Not applicable	
People who received PrEP at least once during the reporting period		
Harm reduction		
 Use of sterile injecting equipment at last injection (2018) 	97.4%	
 Needles and syringes distributed per person who injects (2018) 	195	
 Coverage of opioid substitution therapy (2018) 	13.1%	
— Naloxone available (2019)		
— Safe injection rooms available (2019)		

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<200	<200	<500
	[<200– <500]	[<200– <500]	[<200– <500]
New HIV infections (0–14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
New HIV infections (men, 15+)	<200	<200	<200
	[<100- <200]	[<100- <200]	[<100- <500]
HIV incidence per 1000 population	0.03 [0.02–0.04]	0.03 [0.02–0.04]	0.04 [0.02–0.06]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (0–14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
People living with HIV			
People living with HIV (all ages)	2700	3500	4000
	[2200–3500]	[2800–4300]	[3100–4900]
People living with HIV (0-14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	750	950	1100
	[580–970]	[730–1200]	[830–1300]
People living with HIV (men, 15+)	2000	2500	2900
	[1500–2700]	[1900–3200]	[2200–3600]
HIV prevalence (15–49)	<0.1 [<0.1–0.1]	<0.1 [<0.1–0.1]	0.1 [<0.1–0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatary HIV teating for marriage, work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

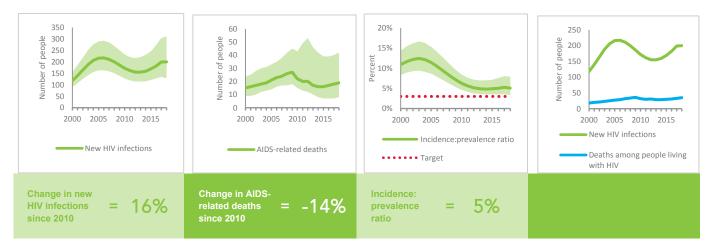
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

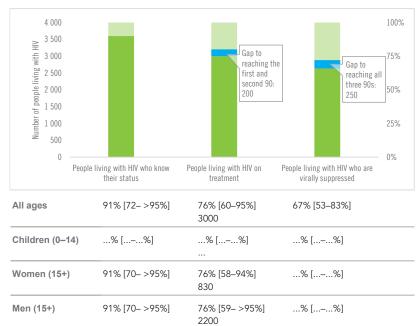
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population	 		
HIV prevalence	 	1.2%	 1.0%
Know their HIV status	 		
Antiretroviral therapy coverage	 70.0%	54.3%	
Condom use	 		
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	8 [4–13]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects (2016) 	361
— Coverage of opioid substitution	30%
therapy (2017)	
therapy (2017) — Naloxone available (2019)	

New HIV infections			
New HIV infections (all ages)	5500	6500	6200
New Hiv Infections (all ages)	[4500–6600]	[5300–7700]	[5000-7500]
New HIV infections (0-14)	<100	<100	<100
	[<100-<100]	[<100-<100]	[<100-<100]
New HIV infections (women, 15+)	1500	1800	1700
New fire incentions (women, 10-)	[1300–1800]	[1500–2100]	[1400–2000]
New HIV infections (men, 15+)	4000	4600	4500
New my mections (men, 157)	[3100–5100]	[3600–5900]	[3400–5700]
HIV incidence per 1000 population	0.08 [0.07–0.1]	0.1 [0.08–0.12]	0.09 [0.08–0.11]
AIDS-related deaths			
AIDS-related deaths (all ages)	600	<500	<500
nibo rolatod dodalo (dli dgoo)	[<500–780]	[<500–500]	[<500–540]
AIDS-related deaths (0–14)	<100	<100	<100
	[<100- <100]	[<100-<100]	[<100-<100]
AIDS-related deaths (women, 15+)	<200	<100	<100
	[<100-<200]	[<100-<100]	[<100-<200]
AIDS-related deaths (men, 15+)	<500	<500	<500
AIDS-related deaths (men, 15+)	[<500–630]	[<500-<500]	[<500-<500]
People living with HIV			
People living with HIV (all ages)	140 000	160 000	180 000
reopie inving with fire (all ages)	[120 000–160 000]	[140 000–190 000]	[150 000–210 000]
People living with HIV (0–14)	<200	<500	<500
	[<200-<500]	[<500- <500]	[<500-<500]
People living with HIV (women, 15+)	33 000	41 000	46 000
copic initig with the (women, 15+)	[29 000–38 000]	[36 000–47 000]	[40 000–52 000]
People living with HIV (men, 15+)	100 000	120 000	130 000
reopie namy with ma (men, 13*)	[85 000–130 000]	[99 000–150 000]	[110 000–160 000]
HIV prevalence (15–49)	0.3 [0.3–0.4]	0.3 [0.3–0.4]	0.3 [0.3–0.4]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

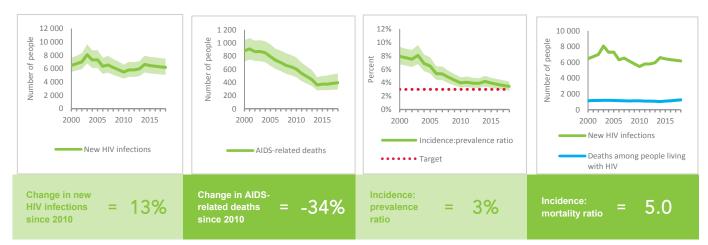
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

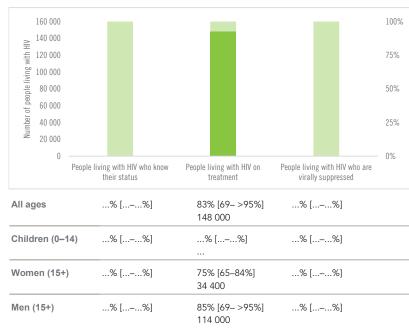
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population	 		
HIV prevalence	 14.0%		 2.0%
Know their HIV status	 86.0%	97.5%	
Antiretroviral therapy coverage	 78.0%	90.9%	
Condom use	 44.5%		
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		





ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	830 [490–1300]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects (2015) 	115
 Coverage of opioid substitution therapy (2015) 	80%
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

New HIV infections			
New HIV infections (all ages)	2900	2900	2600
	[2300–3500]	[2200–3600]	[1900–3200]
New HIV infections (0–14)	<100 [<100- <100]	<100 [<100- <100]	<100 [<100] [<100–<100]
New HIV infections (women, 15+)	<500	600	570
	[<500- <500]	[<500–710]	[<500–690]
New HIV infections (men, 15+)	2400	2300	2000
	[1900–3100]	[1700–3000]	[1400–2600]
HIV incidence per 1000 population	0.04 [0.03–0.04]	0.04 [0.03–0.04]	0.03 [0.02–0.04]
AIDS-related deaths			
AIDS-related deaths (all ages)	<500	<500	<500
	[<500–720]	[<500–720]	[<500–670]
AIDS-related deaths (0-14)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <200]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<500	<500	<500
	[<500–610]	[<500–650]	[<500–590]
People living with HIV			
People living with HIV (all ages)	69 000	81 000	87 000
	[57 000–81 000]	[66 000–94 000]	[71 000–100 000]
People living with HIV (0–14)	<100	<100	<200
	[<100– <100]	[<100– <100]	[<100- <200]
People living with HIV (women, 15+)	13 000	16 000	17 000
	[12 000–15 000]	[14 000–18 000]	[15 000–20 000]
People living with HIV (men, 15+)	56 000	65 000	70 000
	[45 000–66 000]	[52 000–77 000]	[55 000–83 000]
HIV prevalence (15–49)	0.1 [0.1–0.1]	0.1 [0.1–0.1]	0.1 [0.1–0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

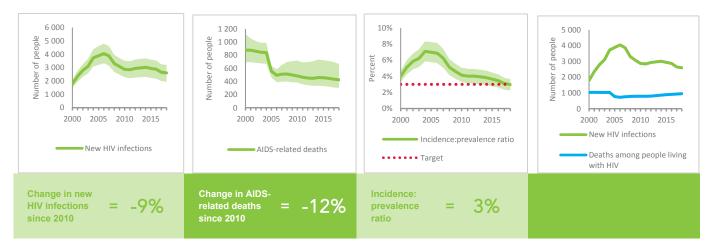
Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in	2013
the last 12 months	17.5
Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent	2013
	19.4

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

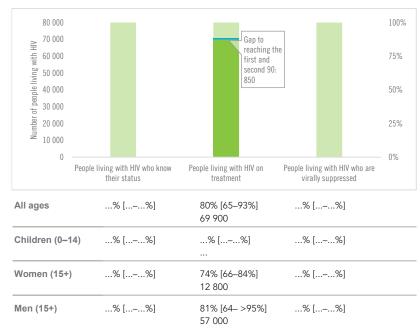
		Finar	ncing sources			
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population	 		
HIV prevalence	 6.0%	4.9%	
Know their HIV status	 86.0%	98.8%	
Antiretroviral therapy coverage	 81.8%		
Condom use	 	38.0%	
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

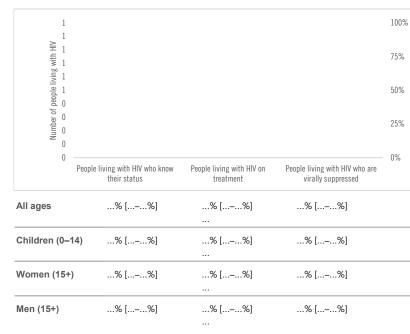
Estimated number of incident tuberculosis cases among people living with HIV (2017)	350 [200–550]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period (2017)	2000
Harm reduction	
 Use of sterile injecting equipment at last injection (2015) 	90.2%
 Needles and syringes distributed per person who injects 	
, 0	 45.2%
person who injects — Coverage of opioid substitution	

KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence			8.5%		1.3%
Know their HIV status					
Antiretroviral therapy coverage					
Condom use		73.0%	40.0%	66.0%	
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	33 [18–51]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period (2017)	75
Harm reduction	
 Use of sterile injecting equipment at last injection (2015) 	86%
 Needles and syringes distributed per person who injects (2016) 	80
- Coverage of opioid substitution	57%
therapy (2016)	5778
therapy (2016) — Naloxone available (2019)	

EXPENDITURES

Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2008		\$96 058 435				\$96 058 435

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in	2017
the last 12 months	11
Percentage of people living with HIV who reported a health-care professional told others	2017
about their HIV status without their consent	15

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<500	<500	<500
New file filections (all ages)	[<200-<500]	[<500-<500]	[<200-<500]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100- <100]	[<100-<100]	[<100-<100]
New HIV infections (men, 15+)	<500	<500	<200
New HIV Infections (men, 15+)	[<200- <500]	[<200-<500]	[<200-<500]
HIV incidence per 1000 population	0.02 [0.02-0.03]	0.03 [0.02–0.03]	0.02 [0.02–0.03]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
Albo-related deaths (all ages)	[<100-<100]	[<100-<100]	[<100-<100]
AIDS-related deaths (0-14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)	<100	<100	<100
Albo-related deaths (women, 10.)	[<100-<100]	[<100-<100]	[<100-<100]
AIDS valated deaths (man. 451)	<100	<100	<100
AIDS-related deaths (men, 15+)	[<100-<100]	[<100-<100]	[<100-<100]
People living with HIV			
People living with HIV (all ages)	2000	3100	3700
People living with Hiv (all ages)	[1800–2300]	[2700–3500]	[3200–4200]
People living with HIV (0-14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	<500	<500	570
r copie namy with ma (women, 15*)	[<500-<500]	[<500–550]	[510–640]
People living with HIV (men, 15+)	1700	2600	3100
reopie inving with Hiv (men, 15+)	[1500–1900]	[2200–3000]	[2600–3500]
HIV prevalence (15–49)	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatany UIV testing for marriage work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

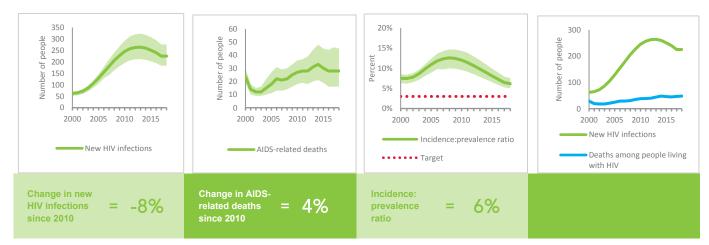
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

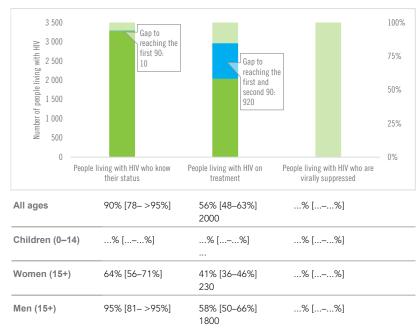
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2009		\$3 496 377				\$3 496 377



KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence			0.2%		
Know their HIV status					
Antiretroviral therapy coverage					
Condom use			22.1%		
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	11 [6–18]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
performed according to national standards People who received PrEP at least once	applicable
performed according to national standards People who received PrEP at least once during the reporting period	applicable
People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction - Use of sterile injecting equipment at last injection (2014) - Needles and syringes distributed per	applicable 84.9%
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection (2014) — Needles and syringes distributed per person who injects (2017) — Coverage of opioid substitution	applicable 84.9% 21

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
New HIV infections (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
HIV incidence per 1000 population	0.05 [0.04–0.05]	0.05 [0.05–0.06]	0.05 [0.05–0.06]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (0–14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
People living with HIV			
People living with HIV (all ages)	<500	<500	<500
	[<200– <500]	[<500– <500]	[<500– <500]
People living with HIV (0–14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
People living with HIV (men, 15+)	<200	<500	<500
	[<200– <200]	[<200– <500]	[<500– <500]
HIV prevalence (15–49)	0.1 [<0.1–0.1]	0.1 [0.1–0.1]	0.1 [0.1–0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage, work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

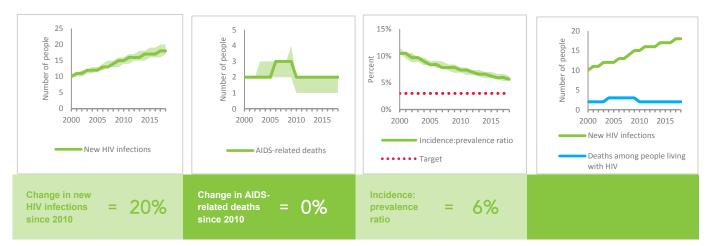
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

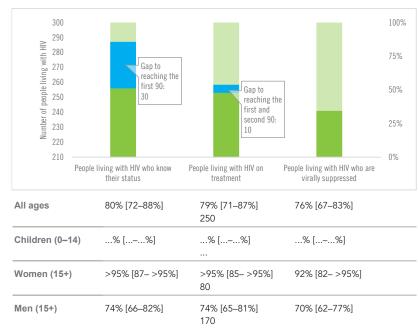
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence					
Know their HIV status					
Antiretroviral therapy coverage					
Condom use					
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	0 [0–0]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	<0.1%
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects 	
 Coverage of opioid substitution therapy 	
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

New HIV infections			
New HIV infections (all ages)	<500	<500	<500
	[<500- <500]	[<500-<500]	[<500-<500]
New HIV infections (0–14)	<100	<100	<100
	[<100- <100]	[<100- <100]	[<100-<100]
New HIV infections (women, 15+)	<100	<100	<100
	[<100-<200]	[<100-<100]	[<100-<100]
New HIV infections (men, 15+)	<500	<500	<500
New HIV Infections (men, 15+)	[<200- <500]	[<500-<500]	[<500-<500]
HIV incidence per 1000 population	0.07 [0.06–0.08]	0.08 [0.06–0.09]	0.08 [0.06–0.09]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
Albo-related deaths (all ages)	[<100-<100]	[<100-<100]	[<100-<100]
AIDS-related deaths (0–14)	<100	<100	<100
alborelated deaths (0-14)	[<100-<100]	[<100-<100]	[<100-<100]
AIDS-related deaths (women, 15+)	<100	<100	<100
Aldo-related deaths (women, 15+)	[<100-<100]	[<100-<100]	[<100-<100]
	<100	<100	<100
AIDS-related deaths (men, 15+)	[<100-<100]	[<100-<100]	[<100-<100]
People living with HIV			
People living with HIV (all ages)	4800	6200	7200
reopie living with fiv (all ages)	[4200–5400]	[5400–6900]	[6200-8000]
	<100	<100	<100
People living with HIV (0–14)	[<100-<100]	[<100-<100]	[<100-<100]
Poople living with HIV (women 451)	1900	2200	2500
People living with HIV (women, 15+)	[1700–2100]	[2000–2500]	[2200–2700]
Deeple living with LUV (men. 45.)	2900	4000	4700
People living with HIV (men, 15+)	[2400–3300]	[3400–4600]	[4000–5500]
HIV prevalence (15–49)	0.2 [0.1–0.2]	0.2 [0.2–0.2]	0.2 [0.2–0.2]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage, work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

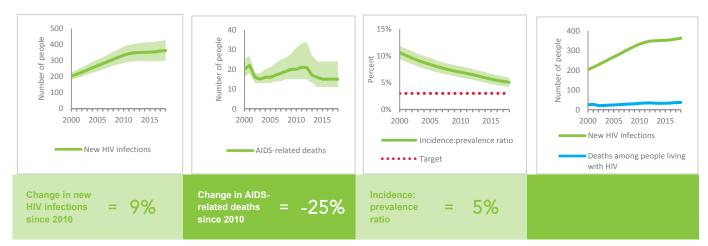
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

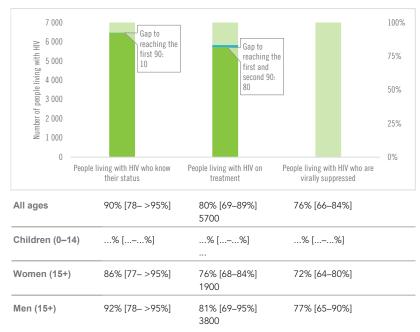
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population			 	
HIV prevalence		7.8%	 	1.9%
Know their HIV status		63.3%	 	
Antiretroviral therapy coverage		78.9%	 	
Condom use	80.0%	56.9%	 	
Coverage of HIV prevention programmes		26.1%	 	
Avoidance of health care because of stigma and discrimination			 	
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	26 [17–37]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
Harm reduction — Use of sterile injecting equipment at last injection	
— Use of sterile injecting equipment at	 168
 Use of sterile injecting equipment at last injection Needles and syringes distributed per 	
 Use of sterile injecting equipment at last injection Needles and syringes distributed per person who injects (2017) Coverage of opioid substitution 	168

New HIV infections			
New HIV infections (all ages)	4600	3700	3100
	[3800–5200]	[3000–4200]	[2400–3600]
New HIV infections (0-14)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
New HIV infections (women, 15+)	1400	1100	920
	[1200–1600]	[940–1300]	[760–1100]
New HIV infections (men, 15+)	3200	2600	2100
	[2400–3800]	[1900–3100]	[1500–2600]
HIV incidence per 1000 population	0.08 [0.06–0.09]	0.06 [0.05–0.07]	0.05 [0.04–0.06]
AIDS-related deaths			
AIDS-related deaths (all ages)	830	690	710
	[620–1100]	[500–900]	[510–930]
AIDS-related deaths (0-14)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
AIDS-related deaths (women, 15+)	<500	<200	<200
	[<200– <500]	[<200– <500]	[<200– <500]
AIDS-related deaths (men, 15+)	610	<500	500
	[<500–800]	[<500–690]	[<500–700]
People living with HIV			
People living with HIV (all ages)	110 000	120 000	130 000
	[92 000–120 000]	[110 000–140 000]	[110 000–140 000]
People living with HIV (0–14)	<200	<500	<500
	[<200– <200]	[<200– <500]	[<200– <500]
People living with HIV (women, 15+)	32 000	37 000	39 000
	[27 000–35 000]	[32 000–41 000]	[33 000–43 000]
People living with HIV (men, 15+)	75 000	86 000	90 000
	[62 000–88 000]	[70 000–100 000]	[74 000–110 000]
HIV prevalence (15–49)	0.3 [0.2–0.3]	0.3 [0.2–0.3]	0.3 [0.2–0.3]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

...

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

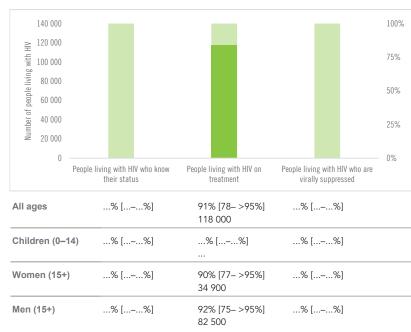
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2011		\$508 145 475				\$508 145 475



KEY POPULATIONS

Estimated size of population	 			
HIV prevalence	 9.6%	1.7%		
Know their HIV status	 			
Antiretroviral therapy coverage	 			
Condom use	 62.0%	22.0%	62.2%	
Coverage of HIV prevention programmes	 			
Avoidance of health care because of stigma and discrimination	 			
Expenditures (0)	 			

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	470 [270–720]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
-	
performed according to national standards People who received PrEP at least once	applicable
People who received PrEP at least once during the reporting period	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2015) — Coverage of opioid substitution	applicable 27

New HIV infections			
New HIV infections (all ages)	<500	<500	<500
	[<500– <500]	[<500– <500]	[<500– <500]
New HIV infections (0–14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<200	<200	<200
	[<200– <200]	[<100- <200]	[<100- <200]
New HIV infections (men, 15+)	<500	<500	<500
	[<500– <500]	[<500– <500]	[<500– <500]
HIV incidence per 1000 population	0.18 [0.18–0.2]	0.18 [0.18–0.2]	0.19 [0.18–0.2]
AIDS-related deaths			
AIDS-related deaths (all ages)	<200	<200	<100
	[<200– <200]	[<200- <500]	[<100- <100]
AIDS-related deaths (0–14)			
	[–]	[–]	[=]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
AIDS-related deaths (men, 15+)	<200	<200	<100
	[<200– <200]	[<200– <200]	[<100– <100]
People living with HIV			
People living with HIV (all ages)	4000	4700	5300
	[3500–4500]	[4100–5200]	[4800–5900]
People living with HIV (0-14)			
	[–]	[]	[–]
People living with HIV (women, 15+)	1200	1400	1700
	[1100–1400]	[1300–1600]	[1500–1800]
People living with HIV (men, 15+)	2800	3200	3700
	[2400–3100]	[2800–3600]	[3300–4100]
HIV prevalence (15–49)	0.3 [0.3–0.4]	0.4 [0.3–0.4]	0.4 [0.4–0.5]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission Yes

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

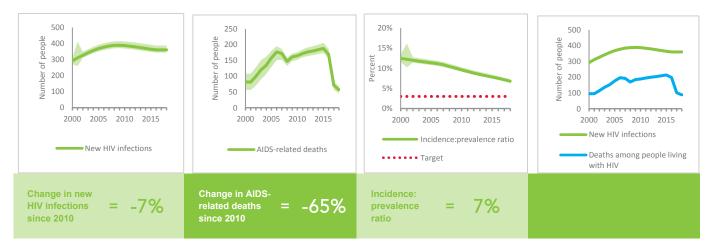
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

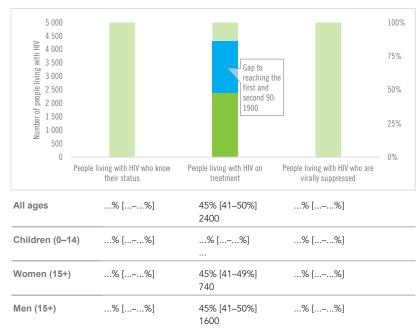
		Finar	ncing sources			
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2017						\$14 133 472



KEY POPULATIONS

Estimated size of population				
HIV prevalence			26.0%	 7.0%
Know their HIV status		49.8%	88.8%	
Antiretroviral therapy coverage				
Condom use		51.0%	60.0%	
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination				
Expenditures (2016)	\$12 779	\$0	\$84 377	

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

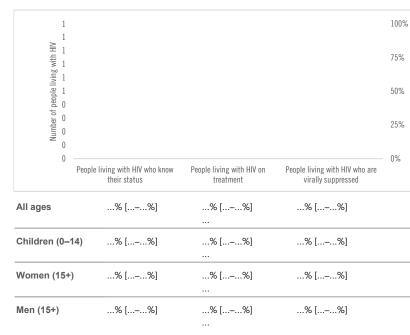
Estimated number of incident tuberculosis cases among people living with HIV (2017)	63 [53–73]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
5	
performed according to national standards People who received PrEP at least once	applicable
performed according to national standards People who received PrEP at least once during the reporting period	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction - Use of sterile injecting equipment at last injection - Needles and syringes distributed per	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2016) — Coverage of opioid substitution	applicable 93

KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence	11.1%	4.7%	4.7%		4.5%
Know their HIV status					
Antiretroviral therapy coverage		65.5%	21.8%		30.7%
Condom use			32.0%		
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	50 [42–58]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years (2014)	
— Women	67.5%
— Men	71.6%
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
0 1 01	
Harm reduction	
Harm reduction — Use of sterile injecting equipment at last injection (2016)	65.9%
— Use of sterile injecting equipment at	65.9% 28
 Use of sterile injecting equipment at last injection (2016) Needles and syringes distributed per 	
 Use of sterile injecting equipment at last injection (2016) Needles and syringes distributed per person who injects (2017) Coverage of opioid substitution 	28

EXPENDITURES

		Finar	ncing sources			
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2012		\$2 496 551				\$2 496 551

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	· · · ·
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

New HIV infections			
New HIV infections (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
New HIV infections (0–14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
New HIV infections (men, 15+)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
HIV incidence per 1000 population	0.09 [0.08–0.11]	0.1 [0.08–0.12]	0.09 [0.07–0.11]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100- <100]
AIDS-related deaths (0–14)			
	[–]	[–]	[=]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
People living with HIV			
People living with HIV (all ages)	700	1000	1200
	[620–780]	[890–1100]	[1000–1300]
People living with HIV (0-14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	<200	<500	<500
	[<200– <500]	[<500– <500]	[<500– <500]
People living with HIV (men, 15+)	500	720	830
	[<500–570]	[620–820]	[710–950]
HIV prevalence (15–49)	0.2 [0.2–0.2]	0.2 [0.2–0.3]	0.3 [0.2–0.3]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage work or	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

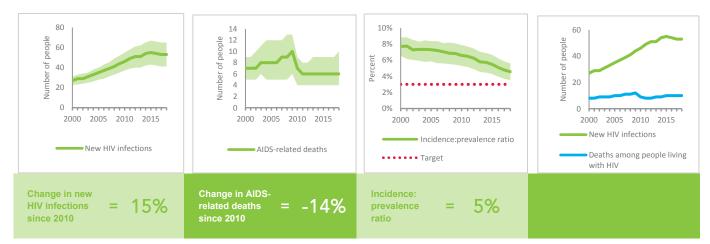
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

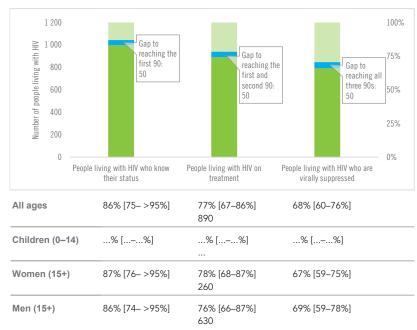
	Fina	ncing sources			
		International: PEPFAR	International: Global Fund	International: all others	
Last available report: 2017	 				\$2 755 676



KEY POPULATIONS

Estimated size of population	 		
HIV prevalence	 		 2.6%
Know their HIV status	 85.0%	85.4%	
Antiretroviral therapy coverage	 78.1%	76.9%	 73.0%
Condom use	 		
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

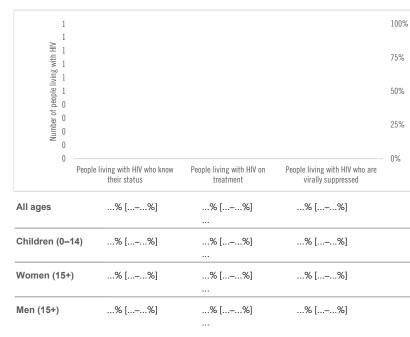
Estimated number of incident tuberculosis cases among people living with HIV (2017)	3 [2–5]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	<0.1%
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period (2017)	40
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects (2016) 	288
 Coverage of opioid substitution therapy (2016) 	62%
— Naloxone available (2019)	
 — Safe injection rooms available (2019) 	

KEY POPULATIONS

		Gay men and other men who have sex with men		
Estimated size of population			 	
HIV prevalence			 	
Know their HIV status			 	
Antiretroviral therapy coverage			 	
Condom use	72.7%	63.0%	 	
Coverage of HIV prevention programmes			 	
Avoidance of health care because of stigma and discrimination			 	
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	0 [0–0]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary modical male size unsisions	
Voluntary medical male circumcisions performed according to national standards	Not applicable
5	
performed according to national standards People who received PrEP at least once	applicable
performed according to national standards People who received PrEP at least once during the reporting period (2017)	applicable
performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at	applicable 94
performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	applicable 94
Performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction - Use of sterile injecting equipment at last injection - Needles and syringes distributed per person who injects (2017) - Coverage of opioid substitution	applicable 94 200

EXPENDITURES

Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

	2010	2015	2018	
New HIV infections				
New HIV infections (all ages)	1000	640		
New HIV IIIections (all ages)	[1000–1000]	[640–640]	[–]	
New HIV infections (0-14)	<100	<100		
New file inections (0-14)	[<100-<100]	[<100-<100]	[–]	
New HIV infections (women, 15+)	<200	<200		
New Hite Infections (women, 10-)	[<200-<200]	[<200-<200]	[–]	
New HIV infections (men, 15+)	810	510		
New HIV Infections (men, 15+)	[800–820]	[500–520]	[–]	
HIV incidence per 1000 population	0.06 [0.06–0.06]	0.04 [0.04–0.04]	[–]	
AIDS-related deaths				
AIDS-related deaths (all ages)	<200	<200		
,	[<200- <500]	[<200-<500]	[]	
AIDS-related deaths (0–14)	<100	<100		
	[<100-<100]	[<100- <100]	[–]	
AIDS-related deaths (women, 15+)	<100	<100		
	[<100-<100]	[<100- <100]	[–]	
AIDS-related deaths (men, 15+)	<200	<200		
,,,	[<100- <200]	[<100- <200]	[]	
People living with HIV				
People living with HIV (all ages)	20 000	23 000		
reopie inving with the (all ages)	[19 000–21 000]	[21 000–24 000]	[–]	
People living with HIV (0-14)	<100	<100		
	[<100- <100]	[<100-<100]	[]	
People living with HIV (women, 15+)	3400	3900		
· · · · · · · · · · · · · · · · · · ·	[3200–3600]	[3700–4100]	[–]	
People living with HIV (men, 15+)	16 000	19 000		
	[15 000–18 000]	[17 000–20 000]	[]	
HIV prevalence (15–49)	0.2 [0.1–0.2]	0.2 [0.1–0.2]	[]	

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

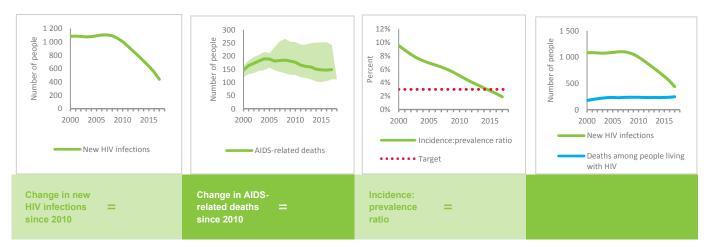
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

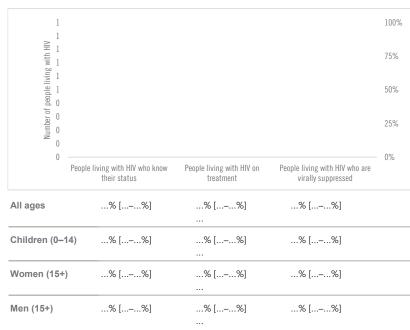
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence					
Know their HIV status		91.0%			
Antiretroviral therapy coverage		86.1%			
Condom use					
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	36 [30–42]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
-	
performed according to national standards People who received PrEP at least once	applicable
People who received PrEP at least once during the reporting period	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects — Coverage of opioid substitution	applicable

New HIV infections			
New HIV infections (all ages)	<500	<200	<200
	[<500– <500]	[<200– <500]	[<200– <200]
New HIV infections (0-14)			
	[–]	[–]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
New HIV infections (men, 15+)	<200	<200	<100
	[<200– <200]	[<200– <200]	[<100- <200]
HIV incidence per 1000 population	0.05 [0.05–0.05]	0.04 [0.04–0.04]	0.02 [0.02–0.03]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100- <100]	[<100– <100]
AIDS-related deaths (0–14)			
	[]	[–]	[]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
People living with HIV			
People living with HIV (all ages)	4200	5400	5800
	[3800–4600]	[4800–5900]	[5200–6300]
People living with HIV (0-14)			
	[–]	[–]	[]
People living with HIV (women, 15+)	1200	1500	1600
	[1100–1400]	[1400–1700]	[1500–1800]
People living with HIV (men, 15+)	3000	3800	4100
	[2700–3300]	[3400–4200]	[3800–4600]
HIV prevalence (15–49)	0.1 [0.1–0.2]	0.1 [0.1–0.2]	0.1 [0.1–0.2]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	
Mandatory HIV testing for marriage, work or	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

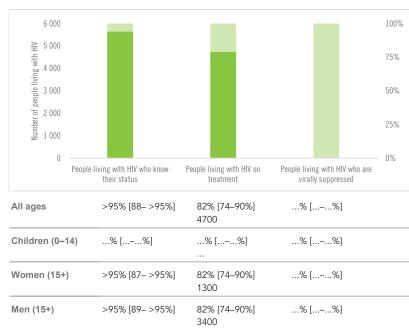
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population	 	 	
HIV prevalence	 	 	
Know their HIV status	 	 	
Antiretroviral therapy coverage	 	 	
Condom use	 	 	
Coverage of HIV prevention programmes	 	 	
Avoidance of health care because of stigma and discrimination	 	 	
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	13 [7–21]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions	NL .
performed according to national standards	Not applicable
-	
performed according to national standards People who received PrEP at least once	applicable
People who received PrEP at least once during the reporting period	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2015) — Coverage of opioid substitution	applicable 312

	2010	2015	2018	
New HIV infections	2010	2015	2010	
New HIV infections (all ages)	820 [800–880]	1100 [1100–1200]	1500 [1500–1700]	
New HIV infections (0-14)	 [-]	 [–]	 [–]	
New HIV infections (women, 15+)	 [–]	 [–]	 [–]	
New HIV infections (men, 15+)	 []	 []	 [–]	
HIV incidence per 1000 population	0.02 [0.02–0.02]	0.03 [0.03–0.03]	0.04 [0.04–0.04]	
AIDS-related deaths				
AIDS-related deaths (all ages)	 [–]	 [–]	 [–]	
AIDS-related deaths (0-14)	 [–]	 [–]	 [–]	
AIDS-related deaths (women, 15+)	 [–]	 [–]	 [–]	
AIDS-related deaths (men, 15+)	 [=]	 [=]	 [–]	
People living with HIV				
People living with HIV (all ages)	 [–]	 [–]	 [–]	
People living with HIV (0–14)	 [–]	 [–]	 [–]	
People living with HIV (women, 15+)	 []	 []	 [–]	
People living with HIV (men, 15+)	 [–]	 []	 [=]	
HIV prevalence (15–49)	[–]	[–]	[]	

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

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Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

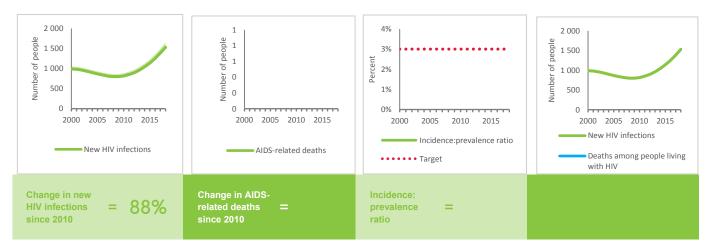
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

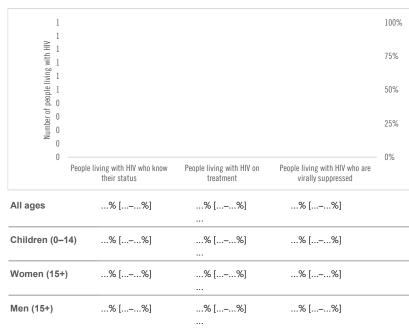
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2014		\$83 684 559				\$83 684 559



KEY POPULATIONS

	Gay men and other men who have sex with men		
Estimated size of population	 		
HIV prevalence	 7.2%	54.0%	 2.5%
Know their HIV status	 73.5%	97.2%	
Antiretroviral therapy coverage	 68.3%	46.2%	
Condom use	 		
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	160 [90–250]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
, ,	
performed according to national standards People who received PrEP at least once	applicable
Performed according to national standards People who received PrEP at least once during the reporting period	applicable
People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2014) — Coverage of opioid substitution	applicable 0

New HIV infections			
New HIV infections (all ages)	1500	1100	740
	[1300–1700]	[860–1200]	[580–850]
New HIV infections (0-14)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
New HIV infections (women, 15+)	<500	<500	<200
	[<500– <500]	[<500– <500]	[<200– <200]
New HIV infections (men, 15+)	1100	810	570
	[890–1300]	[600–960]	[<500–680]
HIV incidence per 1000 population	0.15 [0.12–0.17]	0.1 [0.08–0.12]	0.07 [0.06–0.08]
AIDS-related deaths			
AIDS-related deaths (all ages)	930	620	<500
	[730–1200]	[<500–770]	[<500– <500]
AIDS-related deaths (0-14)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
AIDS-related deaths (women, 15+)	<500	<200	<100
	[<200– <500]	[<200– <200]	[<100- <200]
AIDS-related deaths (men, 15+)	690	<500	<500
	[510–910]	[<500–610]	[<200– <500]
People living with HIV			
People living with HIV (all ages)	40 000	41 000	41 000
	[35 000–45 000]	[35 000–46 000]	[36 000–46 000]
People living with HIV (0–14)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
People living with HIV (women, 15+)	11 000	12 000	12 000
	[9900–13 000]	[10 000–13 000]	[10 000–13 000]
People living with HIV (men, 15+)	29 000	29 000	29 000
	[24 000–33 000]	[25 000–33 000]	[25 000–34 000]
HIV prevalence (15–49)	0.6 [0.5–0.6]	0.5 [0.5–0.6]	0.5 [0.4–0.5]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

...

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

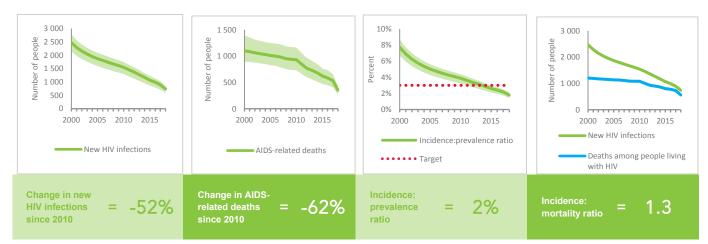
Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in	2013
the last 12 months	7.5
Percentage of people living with HIV who reported a health-care professional told others	2013
about their HIV status without their consent	11

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

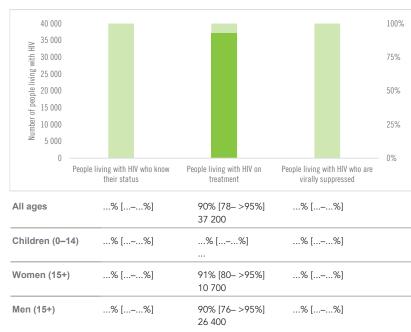
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report: 2013		\$274 577 668				\$274 577 668



KEY POPULATIONS

Estimated size of population				
HIV prevalence		5.9%	21.3%	
Know their HIV status		90.2%		
Antiretroviral therapy coverage				
Condom use	68.2%	50.1%		
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination				
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	250 [210–290]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
during the reporting period	
during the reporting period Harm reduction — Use of sterile injecting equipment at	
during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	
during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2014) — Coverage of opioid substitution	 116

New HIV infections			
New HIV infections (all ages)	850	810	790
	[720–1000]	[680–950]	[670–910]
New HIV infections (0-14)	<100	<100	<100
	[<100- <100]	[<100- <100]	[<100– <100]
New HIV infections (women, 15+)	<500	<500	<500
	[<500– <500]	[<500– <500]	[<500–<500]
New HIV infections (men, 15+)	570	540	520
	[<500–680]	[<500–650]	[<500–640]
HIV incidence per 1000 population	0.04 [0.04–0.05]	0.04 [0.03–0.05]	0.04 [0.03–0.05]
AIDS-related deaths			
AIDS-related deaths (all ages)	<200	<200	<200
	[<100– <200]	[<100– <200]	[<100- <200]
AIDS-related deaths (0-14)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100_ <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<200
	[<100– <200]	[<100– <200]	[<100– <200]
People living with HIV			
People living with HIV (all ages)	14 000	16 000	18 000
	[12 000–15 000]	[15 000–18 000]	[16 000–20 000]
People living with HIV (0–14)	1100	<200	<100
	[1000–1100]	[<200– <200]	[<100– <100]
People living with HIV (women, 15+)	4400	5900	6500
	[3900–4800]	[5200–6400]	[5800–7100]
People living with HIV (men, 15+)	8100 [6900–9300]	10 000 [8800–12 000]	11 000 [9800–13 000]
HIV prevalence (15–49)	0.1 [<0.1–0.1]	0.1 [0.1–0.1]	0.1 [0.1–0.2]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission Yes

Criminalization of sex work among consenting

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

Financing sources						
			International: PEPFAR	International: Global Fund	International: all others	
Last available report: 2017						\$70 977 789

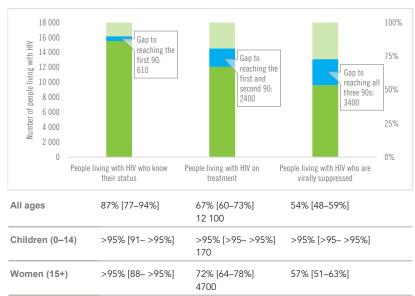


KEY POPULATIONS

Men (15+)

Estimated size of population	 		
HIV prevalence	 18.2%	11.2%	 1.6%
Know their HIV status	 	62.0%	
Antiretroviral therapy coverage	 	32.0%	 66.8%
Condom use	 56.6%	26.0%	
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

7200

64% [55–72%]

51% [44–58%]

80% [68–91%]

Percentage of pregnant women living with HIV	>95%	>95%
accessing antiretroviral medicines	[>95–>95%]	[>95->95%]
Early infant diagnosis	>95%	%
Larry mant diagnosis	[>95–>95%]	[–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	300 [250–350]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	<0.1%
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection (2016) 	86.2%
 Needles and syringes distributed per person who injects (2016) 	75
 Coverage of opioid substitution therapy (2016) 	15%
— Naloxone available (2019)	

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	<200	<200	<500
	[<200– <500]	[<200– <500]	[<100– <500]
New HIV infections (0-14)			
	[–]	[=]	[-]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
New HIV infections (men, 15+)	<200	<200	<200
	[<200– <200]	[<200– <500]	[<100– <500]
HIV incidence per 1000 population	0.02 [0.02–0.02]	0.02 [0.01–0.03]	0.02 [<0.01–0.04]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
AIDS-related deaths (0-14)			
	[–]	[=]	[-]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
People living with HIV			
People living with HIV (all ages)	1800	2600	3000
	[1300–2200]	[1900–3100]	[2200–3800]
People living with HIV (0-14)			
	[–]	[=]	[–]
People living with HIV (women, 15+)	<500	<500	<500
	[<500– <500]	[<500–550]	[<500–610]
People living with HIV (men, 15+)	1400	2100	2600
	[1000–1700]	[1600–2600]	[1800–3200]
HIV prevalence (15–49)	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission Yes

Criminalization of sex work among consenting adults	Any criminalization or punitive regulation of sex work
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	Possession of drugs for personal use or drug use and/or consumption are specified as criminal offences
Criminalization of transgender people	Neither criminalized nor prosecuted
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	Yes, for adolescents younger than 16 years
Spousal consent for married women to access sexual and reproductive health services	No
Mandatory HIV testing for marriage work or	

Mandatory HIV testing for marriage, work or residence permits or for certain groups Yes

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

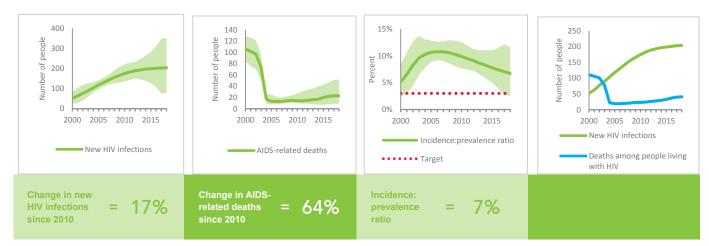
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

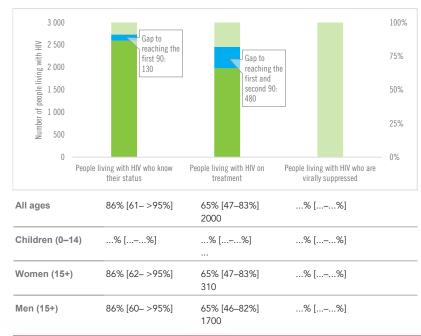
Financing sources						
			International: PEPFAR			
Last available report: 2013	\$595	\$11 468 548		\$4 813 976	\$1845	\$16 333 869



KEY POPULATIONS

Estimated size of population				
HIV prevalence				
Know their HIV status	64.2%	53.5%	98.8%	
Antiretroviral therapy coverage				
Condom use				
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination	8.4%	19.0%		
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	10 [6–14]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once	
during the reporting period	
Harm reduction	
Harm reduction — Use of sterile injecting equipment at	
Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	
Harm reduction	 2

	2010	2015	2018
New HIV infections	2010	2013	2010
New HIV IIIections	<100	<200	<200
New HIV infections (all ages)			
	[<100- <200]	[<100-<200]	[<100-<500]
New HIV infections (0–14)	 [–]	 [–]	 [–]
	[] <100	[] <100	[–] <100
New HIV infections (women, 15+)	<100 [<100– <100]	<100 [<100– <100]	<100 [<100- <100]
New HIV infections (men, 15+)	<100	<100	<200
	[<100- <100]	[<100-<200]	[<100- <500]
HIV incidence per 1000 population	0.01 [<0.01–0.02]	0.02 [0.01–0.04]	0.02 [0.02–0.04]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
nibo rolatou doullo (un ugoo)	[<100- <100]	[<100- <100]	[<100-<100]
AIDS-related deaths (0–14)			
	[–]	[–]	[–]
AIDS-related deaths (women, 15+)	<100	<100	<100
Albo-related deaths (women, ro.)	[<100- <100]	[<100-<100]	[<100-<100]
AIDS related dooths (man. 451)	<100	<100	<100
AIDS-related deaths (men, 15+)	[<100-<100]	[<100-<100]	[<100-<100]
People living with HIV			
People living with HIV (all ages)	<500	860	1200
reopie inving with fire (all ages)	[<500–730]	[650–1400]	[910–1900]
People living with HIV (0–14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)	<100	<200	<200
reopie inning with niv (women, 15+)	[<100-<200]	[<200-<500]	[<200-<500]
Deeple living with UN/ (men. 45.)	<500	740	1000
People living with HIV (men, 15+)	[<500–610]	[530–1200]	[750–1600]
HIV prevalence (15–49)	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]	<0.1 [<0.1-<0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission Yes

Criminalization of sex work among consenting

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

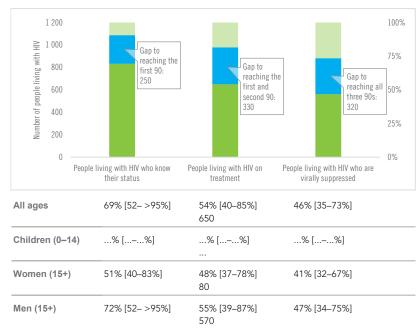
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population	 		
HIV prevalence	 	0.0%	
Know their HIV status	 		
Antiretroviral therapy coverage	 		
Condom use	 		
Coverage of HIV prevention programmes	 		
Avoidance of health care because of stigma and discrimination	 		
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	0 [0–0]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	<0.1%
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects (2014) 	119
 Coverage of opioid substitution therapy 	
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

New HIV infections			
New HIV infections (all ages)	<100	<100	<100
	[<100– <100]	[<100- <200]	[<100- <200]
New HIV infections (0-14)			
	[–]	[]	[–]
New HIV infections (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
New HIV infections (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <200]
HIV incidence per 1000 population	[–]	[–]	[]
AIDS-related deaths			
AIDS-related deaths (all ages)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (0-14)			
	[–]	[-]	[-]
AIDS-related deaths (women, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100– <100]
AIDS-related deaths (men, 15+)	<100	<100	<100
	[<100– <100]	[<100– <100]	[<100- <100]
People living with HIV			
People living with HIV (all ages)			
	[–]	[–]	[–]
People living with HIV (0–14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)			
	[–]	[–]	[–]
People living with HIV (men, 15+)			
	[–]	[=]	[-]
HIV prevalence (15–49)	<0.1 [<0.1–<0.1]	<0.1 [<0.1–<0.1]	<0.1 [<0.1–0.1]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

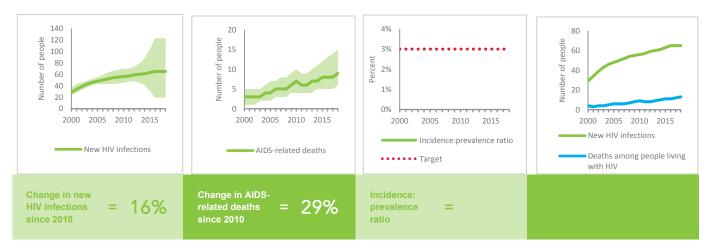
Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

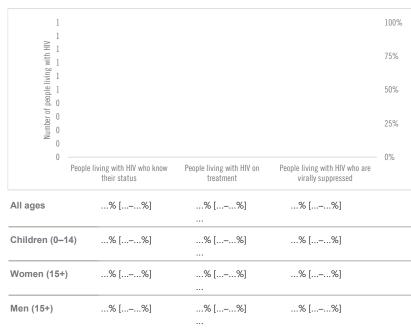
Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						



KEY POPULATIONS

Estimated size of population	 	 	
HIV prevalence	 5.8%	 	
Know their HIV status	 	 	
Antiretroviral therapy coverage	 	 	
Condom use	 54.0%	 	
Coverage of HIV prevention programmes	 	 	
Avoidance of health care because of stigma and discrimination	 	 	
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	1 [1–1]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
5	
performed according to national standards People who received PrEP at least once	applicable
Performed according to national standards People who received PrEP at least once during the reporting period (2017)	applicable
People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at	applicable
performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	applicable 2
performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects (2016) — Coverage of opioid substitution	applicable 2 117

New HIV infections			
New HIV infections (all ages)	4700	3900	3100
	[4000–5600]	[3100–4800]	[2400–3800]
New HIV infections (0–14)	<100	<100	<100
New HIV infections (women, 15+)	[<100– <100]	[<100- <100]	[<100- <100]
	660	550	<500
	[560–750]	[<500-650]	[<500-520]
New HIV infections (men, 15+)	4100	3300	2600
	[3300–4900]	[2500–4200]	[1900–3300]
HIV incidence per 1000 population	0.1 [0.09–0.12]	0.08 [0.07–0.1]	0.07 [0.05–0.08]
AIDS-related deaths			
AIDS-related deaths (all ages)	1300	1200	
	[1100–1700]	[910–1500]	[–]
AIDS-related deaths (0-14)	<100	<100	
	[<100– <100]	[<100– <100]	[=]
AIDS-related deaths (women, 15+)	<200	<200	
	[<200– <500]	[<200– <200]	[=]
AIDS-related deaths (men, 15+)	1100	1000	
	[890–1500]	[770–1400]	[–]
People living with HIV			
People living with HIV (all ages)	140 000	140 000	150 000
	[120 000–150 000]	[130 000–160 000]	[130 000–170 000]
People living with HIV (0–14)	<100	<100	<100
	[<100– <100]	[<100– <200]	[<100– <200]
People living with HIV (women, 15+)	25 000	27 000	27 000
	[23 000–28 000]	[24 000–29 000]	[24 000–30 000]
People living with HIV (men, 15+)	110 000	120 000	120 000
	[96 000–130 000]	[100 000–140 000]	[100 000–140 000]
HIV prevalence (15–49)	0.4 [0.3–0.4]	0.4 [0.3–0.4]	0.3 [0.3–0.4]

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults

Laws penalizing same-sex sexual acts have been decriminalized or never existed
No

...

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

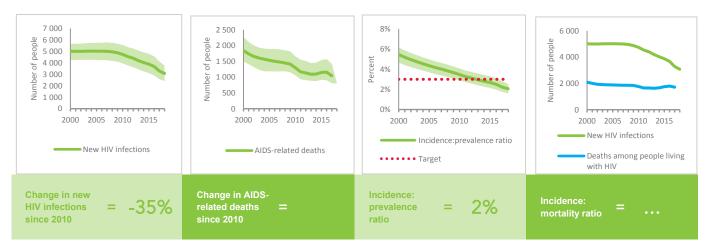
Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

Financing sources							
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total	
Last available report: 2013		\$918 865 056				\$919 488 342	

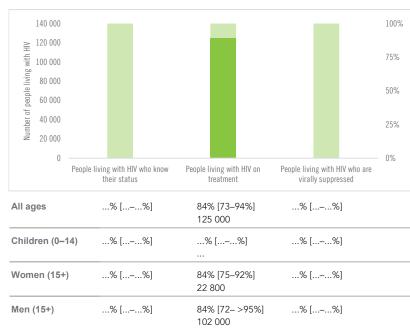
EPIDEMIC TRANSITION METRICS



KEY POPULATIONS

Estimated size of population				
HIV prevalence	2.0%	11.3%		 5.4%
Know their HIV status		83.5%	97.6%	
Antiretroviral therapy coverage		76.8%	91.2%	
Condom use				
Coverage of HIV prevention programmes				
Avoidance of health care because of stigma and discrimination				
Expenditures (0)				

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	370 [310–430]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

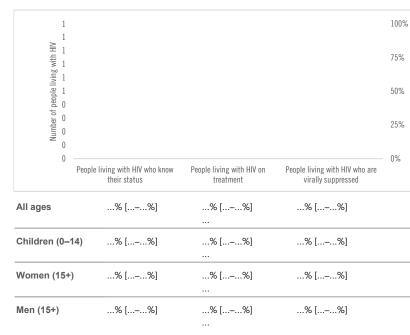
HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects (2015) 	130
 Coverage of opioid substitution therapy (2015) 	56%
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population					
HIV prevalence		2.0%	0.4%	0.1%	
Know their HIV status					
Antiretroviral therapy coverage					
Condom use					
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	24 [14–38]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
5	Not
People who received PrEP at least once	Not applicable
People who received PrEP at least once during the reporting period	Not applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at	Not applicable
Performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per	Not applicable
performed according to national standards People who received PrEP at least once during the reporting period Harm reduction — Use of sterile injecting equipment at last injection — Needles and syringes distributed per person who injects — Coverage of opioid substitution	Not applicable

EXPENDITURES

Financing sources						
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total
Last available report:						

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

...

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

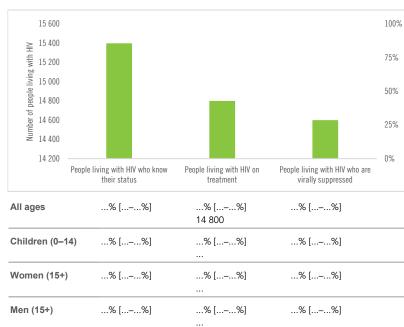
Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

SWITZERLAND

KEY POPULATIONS

	Gay men and other men who have sex with men		
Estimated size of population	 	 	
HIV prevalence	 15.5%	 	
Know their HIV status	 91.0%	 	
Antiretroviral therapy coverage	 87.7%	 	
Condom use	 76.6%	 	
Coverage of HIV prevention programmes	 	 	
Avoidance of health care because of stigma and discrimination	 	 	
Expenditures (0)	 		

HIV TESTING AND TREATMENT CASCADE



HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	55 [32–85]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
People who received PrEP at least once during the reporting period	
Harm reduction	
 Use of sterile injecting equipment at last injection 	
 Needles and syringes distributed per person who injects 	
 Coverage of opioid substitution therapy (2015) 	67.7%
— Naloxone available (2019)	
— Safe injection rooms available (2019)	

EXPENDITURES

Financing sources							
	Domestic private Domestic public International: International: International: International: International: International:						
Last available report: 2016		\$7 179 990				\$7 179 990	

Note: HIV epidemiological estimates were not available at the time of publication.

LAWS AND POLICIES

Laws criminalizing the transmission of, nondisclosure of or exposure to HIV transmission

Criminalization of sex work among consenting adults	
Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

...

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

EPIDEMIC ESTIMATES

	2010	2015	2018
New HIV infections			
New HIV infections (all ages)	41 000	39 000	
	[38 000–44 000]	[36 000–42 000]	[–]
New HIV infections (0–14)			
	[–]	[–]	[-]
New HIV infections (women, 15+)			
	[–]	[–]	[–]
New HIV infections (men, 15+)			
	[–]	[–]	[=]
HIV incidence per 1000 population	0.14 [0.12–0.15]	0.12 [0.11–0.13]	[–]
AIDS-related deaths			
AIDS-related deaths (all ages)			
	[–]	[–]	[–]
AIDS-related deaths (0–14)			
	[–]	[–]	[-]
AIDS-related deaths (women, 15+)			
	[–]	[–]	[–]
AIDS-related deaths (men, 15+)			
	[–]	[–]	[=]
People living with HIV			
People living with HIV (all ages)	990 000	1 100 000	
	[880 000–1 100 000]	[1 000 000–1 200 000]	[-]
People living with HIV (0–14)			
	[–]	[–]	[–]
People living with HIV (women, 15+)			
	[–]	[–]	[-]
People living with HIV (men, 15+)			
	[–]	[–]	[=]
HIV prevalence (15–49)	0.4 [0.3–0.5]	0.4 [0.3–0.5]	[–]

LAWS AND POLICIES

Laws criminalizing the transmission of, non-disclosure of or exposure to HIV transmission $% \left({{\rm S}_{\rm exp}} \right) = {{\rm S}_{\rm exp}} \left({{\rm S}_{\rm exp}} \right) = {{\rm S}_{$

Criminalization of sex work among consenting adults

Criminalization of same-sex sexual acts	Laws penalizing same-sex sexual acts have been decriminalized or never existed
Drug use or possession for personal use is an offence	
Criminalization of transgender people	
Laws or policies restricting the entry, stay and residence of people living with HIV	No
Parental consent for adolescents to access HIV testing	
Spousal consent for married women to access sexual and reproductive health services	

....

Mandatory HIV testing for marriage, work or residence permits or for certain groups

STIGMA AND DISCRIMINATION

Percentage of women and men aged 15–49 years who report discriminatory attitudes towards people living with HIV

Percentage of people living with HIV denied health services because of their HIV status in the last 12 months

Percentage of people living with HIV who reported a health-care professional told others about their HIV status without their consent

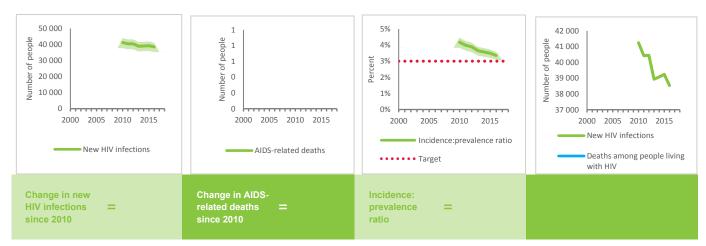
VIOLENCE

Proportion of ever-married or partnered women aged 15–49 years who experienced physical or sexual violence from a male intimate partner in the past 12 months

EXPENDITURES

Financing sources									
	Domestic private	Domestic public	International: PEPFAR	International: Global Fund	International: all others	Total			
Last available report:									

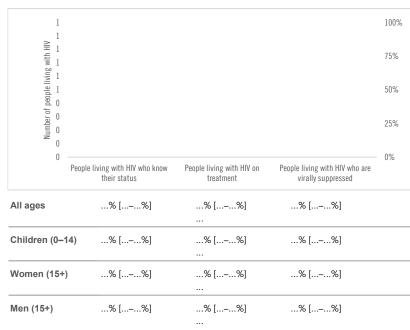
EPIDEMIC TRANSITION METRICS



KEY POPULATIONS

	Sex workers	Gay men and other men who have sex with men	People who inject drugs	Transgender people	Prisoners
Estimated size of population				1 000 000	
HIV prevalence		14.5%	3.6%	13.7%	
Know their HIV status		83.6%	94.0%		
Antiretroviral therapy coverage					
Condom use		42.0%			
Coverage of HIV prevention programmes					
Avoidance of health care because of stigma and discrimination					
Expenditures (0)					

HIV TESTING AND TREATMENT CASCADE



ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION

Percentage of pregnant women living with HIV accessing antiretroviral medicines	% [–%]	% [–%]
Early infant diagnosis	% [–%]	% [–%]

HIV COMORBIDITIES

Estimated number of incident tuberculosis cases among people living with HIV (2017)	550 [470–640]
People living with HIV who started TB preventive therapy (2017)	
Cervical cancer screening of women living with HIV	
People coinfected with HIV and hepatitis B virus receiving combined treatment	
People coinfected with HIV and hepatitis C virus starting hepatitis C treatment	

HIV PREVENTION

Adults aged 15+ years with unsuppressed viral load	
Knowledge of HIV prevention among young people aged 15–24 years	
— Women	
— Men	
Condom use at last sex with a non-marital, non-cohabiting partner	
— Women	
— Men	
Women aged 15–49 years who have their demand for family planning satisfied by modern methods	
Men aged 15–49 years who are circumcised	Not applicable
Voluntary medical male circumcisions performed according to national standards	Not applicable
5	
performed according to national standards People who received PrEP at least once	applicable
People who received PrEP at least once during the reporting period (2017)	applicable
People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at	applicable 33 273
performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection (2014) — Needles and syringes distributed per	applicable 33 273 35%
performed according to national standards People who received PrEP at least once during the reporting period (2017) Harm reduction — Use of sterile injecting equipment at last injection (2014) — Needles and syringes distributed per person who injects — Coverage of opioid substitution	applicable 33 273 35%



ANNEX ON METHODS



METHODS FOR DERIVING UNAIDS HIV ESTIMATES

INTRODUCTION

UNAIDS annually provides revised global, regional and country-specific modelled estimates using the best available epidemiological and programmatic data to track the HIV epidemic. Modelled estimates are required because it is impossible to count the exact number of people living with HIV, people who are newly infected with HIV or people who have died from AIDS-related causes in any country: doing so would require regularly testing every person for HIV and investigating all deaths, which is logistically impossible and ethically problematic. Modelled estimates—and the lower and upper bounds around these estimates provide a scientifically appropriate way of describing HIV epidemic levels and trends.

PARTNERSHIPS IN DEVELOPING METHODS FOR UNAIDS ESTIMATES

Country teams use UNAIDS-supported software to develop estimates annually. The country teams are primarily comprised of demographers, epidemiologists, monitoring and evaluation specialists, and technical partners. The software used to produce the estimates is Spectrum, which is developed by Avenir Health, and the Estimates and Projections Package, which is developed by the East–West Center.¹ The UNAIDS Reference Group on Estimates, Modelling and Projections provides technical guidance on the development of the HIV component of the software.²

¹ More information on Avenir Health can be found at www.avenirhealth.org. The East–West Center website can be found at www.eastwestcenter.org.

² For more on the UNAIDS Reference Group on Estimates, Modelling and Projections, please visit www.epidem.org.

A BRIEF DESCRIPTION OF METHODS USED BY UNAIDS TO CREATE ESTIMATES³

For countries where HIV transmission is high enough to sustain an epidemic in the general population, available epidemiological data typically consist of HIV prevalence results from pregnant women attending antenatal clinics and from nationally representative population-based surveys. Many countries have historically conducted HIV sentinel surveillance among women attending antenatal clinics, which requires collecting data from a selection of clinics for a few months every few years. More recently, a number of countries have stopped conducting sentinel surveillance among pregnant women and are now using the data from the routine HIV tests conducted when pregnant women attend antenatal clinics and are tested for HIV. These data avoid the need to conduct a separate surveillance effort, and they provide a complete set of data from all clinics across the country instead of samples from specific sites.

The trends from pregnant women at antenatal clinics, whether done through surveillance or routine data, can be used to inform estimates of national prevalence trends, whereas data from population-based surveyswhich are conducted less frequently but have broader geographical coverage and also include men-are more useful for informing estimates of national HIV prevalence levels. Data from these surveys also contribute to estimating age- and sex-specific HIV prevalence and incidence levels and trends. For a few countries in sub-Saharan Africa that have not conducted population-based surveys, HIV prevalence levels are adjusted based on comparisons of antenatal clinic surveillance and population-based survey data from other countries in the region. HIV prevalence trends and numbers of people on antiretroviral therapy are then used to derive an estimate of HIV incidence trends.

Historically, countries with high HIV transmission have produced separate HIV prevalence and incidence trends for rural and urban areas when there are wellestablished geographical differences in prevalence. To better describe and account for further geographical heterogeneity, an increasing number of countries have produced subnational estimates (e.g., at the level of the province or state) that, in some cases, also account for rural and urban differences. These subnational or rural–urban estimates and trends are then aggregated to obtain national estimates.

In the remaining countries, where HIV transmission occurs largely among key populations at higher risk of HIV and the epidemic can be described as low-level, the estimates are derived from either surveillance among key populations and the general, low-risk population, or from HIV case reporting data, depending on which data are most reliable in a particular country. In countries with high-quality HIV surveillance data among the key populations, the data from repeated HIV prevalence studies that are focused on key populations are used to derive national estimates and trends. Estimates of the size of key populations are increasingly derived empirically in each country; when studies are not available, they are derived based on regional values and consensus among experts. Other data sources-including HIV case reporting data, population-based surveys and surveillance among pregnant women-are used to estimate the HIV prevalence in the general, low-risk population. The HIV prevalence curves and numbers of people on antiretroviral therapy are then used to derive national HIV incidence trends.

For most countries in western and central Europe and North America—and many countries in Latin America, the Caribbean, and the Middle East and North Africa that have insufficient HIV surveillance or survey data, but that have robust disease reporting systems— HIV case reporting and AIDS-related mortality data from vital registration systems are directly used to inform trends and levels in national HIV prevalence and incidence. These methods also allow countries to take into account evidence of underreporting or reporting delays in HIV case report data, as well as the misclassification of deaths from AIDS-related causes.

In all countries where UNAIDS supports the development of estimates, assumptions about the effectiveness of HIV programme scale-up and patterns of HIV transmission and disease progression are used to obtain the following age- and sex-specific estimates of people living with HIV, people newly infected with HIV, people dying from AIDS-related illness and other important indicators (including treatment programme coverage statistics). These assumptions are based on

³ A full description of the methods used for the 2019 estimates is available in the July 2019 supplement of the journal AIDS.

systematic literature reviews and analyses of raw study data by scientific experts. Demographic population data, including fertility estimates, are derived from the United Nations Population Division's World Population Prospects 2017 data files.

Selected inputs into the model—including the number of people on antiretroviral therapy and the number of women accessing services for the prevention of mother-to-child transmission of HIV by type of regimen—are reviewed and validated in partnership with the United Nations Children's Fund (UNICEF), the World Health Organization (WHO), the Government of the United States of America, the Global Fund to Fight AIDS, Tuberculosis and Malaria, and other partners. Final country-submitted files containing the modelled outputs are reviewed at UNAIDS to ensure that the results are comparable across regions and countries and over time.

In 2019, sub-national estimates were created and used by more than 25 countries for internal planning purposes. The methods for producing robust sub-national estimates varies by country and depends primarily on the availability of sub-national data. Four methods were used (Mathematical modelling, Model-based geo-statistics, small area estimation and direct estimates from prevalence surveys) to derive the sub-national estimates. The methods to generate robust sub-national estimates are still being refined.

UNCERTAINTY BOUNDS AROUND UNAIDS ESTIMATES

The estimation software calculates uncertainty bounds around each estimate. These bounds define the range within which the true value lies (if it can be measured). Narrow bounds indicate that an estimate is precise, while wide bounds indicate greater uncertainty regarding the estimate.

In countries using HIV surveillance data, the quantity and source of the data available partly determine the precision of the estimates: countries with more HIV surveillance data have smaller ranges than countries with less surveillance data or smaller sample sizes. Countries in which a national population-based survey has been conducted generally have smaller ranges around estimates than countries where such surveys have not been conducted. Countries producing subnational estimates at the provincial level have wider ranges. In countries using HIV case reporting and AIDSrelated mortality data, the number of years of data and the magnitude of the cases reported or AIDS-related deaths observed will contribute to determining the precision of the estimate.

The assumptions required to arrive at the estimate also contribute to the extent of the ranges around the estimates: in brief, the more assumptions, the wider the uncertainty range, since each assumption introduces additional uncertainties. For example, the ranges around the estimates of adult HIV prevalence are smaller than those around the estimates of HIV incidence among children, which require additional data on prevalence among pregnant women and the probability of mother-to-child HIV transmission that have their own additional uncertainty.

UNAIDS is confident that the actual numbers of people living with HIV, people who are newly infected with HIV or people who have died from AIDS-related causes lie within the reported ranges. Over time, more and better data from countries will steadily reduce uncertainty.

IMPROVEMENTS INCLUDED IN THE 2019 UNAIDS ESTIMATES MODEL

Country teams create new Spectrum files every year. The files may differ from one year to the next for two reasons. First, new surveillance and programme data are entered into the model; this can change HIV prevalence and incidence trends over time or antiretroviral therapy coverage rates, including for past years. Second, improvements are incorporated into the model based on the latest available science and statistical methods, which leads to the creation of more accurate trends in HIV incidence. Due to these improvements to the model and the addition of new data to create the estimates, the results from previous years cannot be compared with the results from this year. A full historical set of estimates are created each year, however, enabling a description of trends over time.

Between the 2018 estimates and the 2019 estimates, the following changes were applied to the model

under the guidance of the UNAIDS Reference Group on Estimates, Modelling and Projections and based on the latest scientific evidence.

New incidence estimation model for generalized epidemics

In 2019, a new model (R-hybrid) was introduced that uses an improved function to estimate the rate of HIV infection during different phases of the HIV epidemic. For estimating infections early in the epidemic, when data were relatively sparse, the new model has a simple structure that follows the consistent pattern across countries of exponential growth, peak and decline. For more recent years the model has more flexibility to follow the increased amount of data to shape the trends in new infections. This new model improves the fit to existing prevalence data, especially for recent routine testing data from antenatal clinics.

The previous incidence estimation model used in generalized epidemics assumed HIV prevalence stabilized at the last observed value. The impact of adopting the R-hybrid model will be minimal in countries with substantial historical surveillance data and recent surveys, but in countries with few data points early in the epidemic or in recent years, the R-hybrid model should improve the fit to available data.

Mortality among people not receiving treatment

Assumptions of the risk of mortality among people not receiving treatment were reduced based on high quality vital registration data where fewer AIDS-related deaths among the untreated HIV positive adults were recorded than predicted by Spectrum.

The impact of this change is lower mortality rates among people not receiving treatment and fewer AIDS-related deaths overall.

Mortality among people receiving antiretroviral therapy

Previously, the model assumed that mortality rates following antiretroviral therapy initiation are constant over time, conditional on age, sex, baseline CD4 count and duration on treatment. However, recent studies have shown that these rates have declined over time, even after controlling for temporal changes in baseline CD4 count and treatment duration. A temporal reduction in mortality was included in the model as estimated from the IeDEA cohort data.

IeDEA data were also reanalysed for Latin America, North America, and Asia and the Pacific with improved assumptions about mortality among those lost to follow-up. This resulted in substantially lower mortality rates than previously estimated. In countries with highquality mortality data, on- and off-treatment mortality were adjusted to match AIDS-related deaths. An option to specify allocation of treatment disproportionately to either those with low CD4 counts or according to eligibility criteria was introduced to better match the low number of AIDS-related mortality data observed in western and central Europe.

Fertility among women living with HIV

The 2019 Spectrum model included updated parameters about the fertility of women living with HIV who were not receiving antiretroviral therapy. The new parameters led to higher fertility among women living with HIV early in the epidemic, before treatment was provided to HIV-positive pregnant women. This adjustment increased historical estimates of children living with HIV.

In the 2019 model, HIV prevalence data from routine testing among pregnant women at antenatal clinics were used to calibrate the estimated births to women living with HIV. This increased the estimates in some countries and decreased the values in others. There is still some work to be done to ensure the country programme data used for this calibration are robust.

Breastfeeding among women living with HIV

New analysis of survey data done in early 2019 found that women who were living with HV before widespread HIV testing and treatment had shorter breastfeeding duration. The model previously assumed that women who did not know their HIV status had similar breastfeeding patterns as women who were HIV-negative.

In 2019, eight high-burden countries in eastern southern Africa with household surveys from the early 2000s adjusted the breastfeeding duration among undiagnosed women living with HIV to reflect the new analysis. The impact of this change is reduced mother-to-child transmission during breastfeeding.

Probability of mother-to-child transmission

Analysis conducted for the UNAIDS Reference Group on Estimates, Modelling and Projections found minor updated transmission probabilities based on the latest published literature about the impact of different antiretroviral regimens on mother-to-child transmission. This had minimal impact on the child HIV estimates.

Updated age at initiation of antiretroviral therapy for children

The average age of children starting antiretroviral therapy has changed over the years as children are diagnosed earlier. Data from the IeDEA and CIPHER networks provide data on the average age of children starting antiretroviral therapy in multiple regions around the world. These data are available for each calendar year from 2002 through 2016. The most recent update of these data suggested an increase in the proportion of children under two years of age starting on treatment and a small reduction to the proportion of children older than 10 years of age starting on treatment. This has a small impact on both the number of children living with HIV and on AIDS-related deaths among children.

Retention on treatment of pregnant women

Many countries do not have robust data available on the retention of women on treatment during pregnancy. An analysis conducted for the UNAIDS Reference Group on Estimates, Modelling and Projections suggested that at the time of delivery, only 80% of women were retained on treatment. This estimate was used as a default value for women already on treatment before the pregnancy and for those women who started treatment during the pregnancy. Most of the high-burden countries in eastern and southern Africa updated this assumption to reflect available data. Previously, the default assumption was that 75% of women were retained on treatment at delivery before the pregnancy.

Changes to case surveillance and vital registration model

The age range of requested model inputs of new diagnoses, CD4 count at diagnosis and AIDS-related mortality was changed from all ages to 15 years and older. It was recommended that AIDS-related death estimates (adjusted for incomplete reporting and misclassification) rather than raw AIDS-related deaths from the vital registration system be used in the fitting process. A new function was added to estimate new diagnosis based on age, sex and year. Also, a new r-logistic fitting approach was added. Complementing this new model is another function that provides the user with the ability to determine which model best fits the inputs.

Surveillance data entered into the model

In 2018, Nigeria conducted a large household survey to improve the precision of the estimate of HIV prevalence in the country. The Nigeria AIDS Indicator and Impact Survey (NAIIS) found lower HIV prevalence than previous household surveys. The new survey estimates were included in the Nigeria Spectrum models and previous survey data were removed, resulting in a shift in HIV prevalence to a lower level over the full history of the epidemic. This change also shifted the estimated prevalence in western and central Africa to slightly lower levels.

At the global level, trends in new HIV infections, AIDSrelated deaths and people living with HIV are similar to previous estimates, although there are shifts within regions. The number of AIDS-related deaths has shifted downward in all regions due to changes in the models. New HIV infections are slightly flatter than estimated in 2018 in Asia and the Pacific and in eastern Europe and central Asia. Lower estimates of people living with HIV in western and central Africa were offset by higher estimates in Asia and the Pacific.

More detailed information on revisions to the 2019 model and Spectrum generally can be found at www.epidem.org.

PUBLICATION OF COUNTRY-SPECIFIC ESTIMATES

UNAIDS aims to publish estimates for all countries with populations of 250 000 or more ((according to the United Nations Population Division 2017 World Population Prospects). For the countries with populations of 250 000 or more that did not submit estimates, UNAIDS developed estimates using the Spectrum software based on published or otherwise available information. These estimates contributed to regional and global totals but were not published as country-specific estimates.

In countries with low-level epidemics, the number of pregnant women living with HIV is difficult to estimate. Many women living with HIV in these countries are sex workers or people who use drugs—or they are the sexual partners of people who use drugs or gay men and other men who have sex with men—making them likely to have different fertility levels than the general population. UNAIDS does not present estimates of mother-to-child HIV transmission, including estimates related to children in some countries that have concentrated epidemics, unless adequate data are available to validate these estimates. UNAIDS also does not publish estimates related to children for countries where the estimated number of pregnant women living with HIV is less than 50. With regard to reporting incidence trends, if there are not enough historical data to state with confidence whether a decline in incidence has occurred, UNAIDS will only publish data for the most recent year. This is done to prevent users from making inaccurate inferences about trends. Specifically, incidence trends are not published if there are fewer than four data points for the key population or if there have been no data for the past four years for countries using repeated survey or routine testing data. Trends prior to 2000 are not published for countries using case surveillance models if there are no early case surveillance or mortality data available.

Finally, UNAIDS does not publish country estimates when further data or analyses are needed to produce justifiable estimates. More information on the UNAIDS estimates and the individual Spectrum files for most countries can be found in the UNAIDS website. Data from the estimates can be found in the AIDSinfo section of the UNAIDS website (http://aidsinfo.unaids.org).

METHODS FOR DERIVING THE 90–90–90 TARGETS

INTRODUCTION

Since 2015, UNAIDS has reported estimates of global, regional and country-specific progress against the 90–90–90 targets. Progress toward these targets is monitored using three basic indicators:

- Indicator 1 (the first 90): The percentage of people living with HIV who know their HIV status.
- Indicator 2 (the second 90): The percentage of people living with HIV who know their status and are accessing treatment.
- Indicator 3 (the third 90): The percentage of people living with HIV on treatment who have suppressed viral loads.

Indicators 2 and 3 can also be expressed as a percentage of all people living with HIV. When numbers or coverage of the treatment target are expressed relative to the total number of people living with HIV, this is called "the HIV testing and treatment cascade."—therapy Annual estimates of antiretroviral therapy coverage among people living with HIV are available from the time when treatment was first introduced in countries.

DATA SOURCES FOR CONSTRUCTING COUNTRY MEASURES

Country-level progress against the 90–90–90 targets was constructed using reported data from Spectrum, the Global AIDS Monitoring tool and (for selected countries in western and central Europe)) the Dublin Declaration monitoring process. Estimates are published for all people and separately, by sex, for children (0 to 14 years) and for adults (15 years and older). Upper and lower ranges of uncertainty for country-level estimates were calculated from the range of estimated numbers of people living with HIV. This range may not fully capture uncertainty in the reported estimates. A description of the target-related indicators that countries report against is provided in the UNAIDS 2019 Global AIDS Monitoring guidelines (1). Data sources are also briefly described. A summary of the number of countries that are publicly reporting on each measure is provided in Table 18.1, organized by region.

The final set of country measures of progress against the 90–90–90 targets for 2015 through 2018 are available at http://aidsinfo.unaids.org. Not all countries were able to report against all three prongs of the 90–90–90 targets: complete treatment cascades are published for 60 countries in 2018, up from 23 in 2015.

Estimates of people living with HIV

All progress measures in this report are based on UNAIDS global, regional and country-specific modelled estimates from Spectrum of the numbers of people living with HIV. Estimates of people living with HIV in 2018 were available for 170 of 193 countries and territories and published for 137. Estimates of people living with HIV are developed for all countries with populations above 250 000.

More details about how UNAIDS derives estimates and uncertainty bounds around the number of people living with HIV can be found in Part 1 of this annex. Published country estimates of people living with HIV (available http://aidsinfo.unaids.org)the) represent 79% of the total global estimated number of people living with HIV in 2018.

Knowledge of HIV status among people living with HIV

Estimates of the number of people living with HIV who know their status were derived using the most recent HIV surveillance, programme data and nationally representative population-based survey data, and from modelled 2018 estimates for 102 countries. Where data were available separately for children (aged 0–14 years) and adults (aged 15 years and older, by sex), the ageand sex-specific measures were first calculated and then aggregated to produce a national measure.

For 74 countries in 2018—primarily outside of eastern and southern Africa and western and central Africa the number of people living with HIV who knew their HIV status is based on HIV surveillance case notification data, programme registers or modelled estimates derived from case surveillance data. If the estimate from these sources was lower than the number of people accessing antiretroviral therapy, the reported value was excluded. For countries using HIV surveillance or programme data, a country should have included this measure only if the HIV surveillance system had been functioning since at least 2013 and people who have died, emigrated or who otherwise have been lost to follow-up are removed.

Although HIV surveillance systems, including those based on programme registers, can be a reasonably robust source of data to estimate the number of people living with HIV who know their status, biases in the reported numbers may still exist. For example, a country's measure of the knowledge of status may be underestimated if not all people diagnosed are reported to the surveillance system in a timely manner; the measure also may be overestimated if people are reported to the system or included on a register more than once and these duplicates are not detected. Similarly, if people die or emigrate but are not removed from the system, the number of people living with HIV who are reported to know their HIV status also will be overstated.

For 28 countries in eastern and southern Africa and western and central Africa, estimates of the numbers of people living with HIV who knew their status were derived using a new UNAIDS-supported mathematical model called the First 90 model. This model uses population-based survey and HIV testing service program data—together with country-specific HIV epidemic parameters from the standard UNAIDS Spectrum model—to produce outputs of knowledge of HIV status for adults, by sex. More details on the modelling approach are available in a forthcoming article (currently in press) *(2)*.

Knowledge of HIV status from the First 90 model for eastern and southern Africa and western and central Africa has a number of strengths compared with UNAIDS' previously recommended approach to estimating knowledge of status relying on population survey data and programme treatment coverage data. Most importantly, the new model differentiates in the population survey data those who are aware of their HIV status and those who likely seroconverted after their last HIV-negative test based on national incidence trends. This approach constrains the upper bound of the proportion of people living with HIV ever tested in the survey who likely knew their HIV status at the time of the survey, thus producing a more accurate estimate of the first 90. Results of the proportion of people who know their HIV status from the model are also available by sex, assuming male-to-female testing ratios have remained relatively constant over time. Estimates of knowledge of status by sex for adults are also available since 2010.

An important model limitation, similar to the previously recommended approach, is that caution should be used in interpreting results when the last populationbased survey was conducted more than five years ago or if there are concerns about the accuracy of self-reported testing history in the survey. Model results also are only for those aged 15 years and older. UNAIDS continues to recommend that countries conservatively estimate knowledge of status among children as the proportion of children living with HIV on treatment (unless other information from case surveillance data are available). Additional strengths and limitations of the model are described in the forthcoming article referenced earlier in this section.

People accessing antiretroviral therapy

Global and regional measures of antiretroviral therapy numbers are abstracted from country-reported programme data through the UNAIDS-supported Spectrum software, the Global AIDS Monitoring reporting tool, and the Dublin Declaration reporting process. In 2018, 143 countries had publicly available estimates of the number of people on treatment, representing 85% of all people on treatment. For the small number of countries where reported numbers of people on treatment are not available in selected years-primarily in western and central Europe and North America, and inin China, India and the Russian Federation—estimates of the number of people on treatment are developed either in consultation with the public health agency responsible for monitoring the national treatment programme or based on published sources.

In partnership with UNICEF, WHO, the Government of the United States, the Global Fund and other partners that support treatment service delivery in countries, UNAIDS annually reviews and validates treatment numbers reported by countries through Global AIDS Monitoring and Spectrum. UNAIDS staff also provide technical assistance and training to country public health and clinical officers to ensure the quality of the treatment data reported. Nevertheless, this measure may overestimate the number of people on treatment if people who transfer from one facility to another are reported by both facilities. Similarly, coverage may be overestimated if people who have died, disengaged from care or emigrated are not identified and removed from treatment registries. Treatment numbers also may be underestimated if not all clinics report the numbers on treatment completely or in a timely manner.

In 2016, UNAIDS completed a triangulation of data to verify the UNAIDS global estimate of people accessing antiretroviral therapy at the end of 2015. Since early 2017, UNAIDS and other international partners have supported more than 15 countries, primarily in sub-Saharan Africa, to verify that the number of people reported to be currently on treatment is accurate. For more details about how confident UNAIDS is in reported treatment numbers, please see *How many people living with HIV access treatment?*⁴

People who have achieved viral suppression

Progress towards the viral suppression target among people on treatment and as a proportion of all people living with HIV was derived from data reported in Spectrum and through the online Global AIDS Monitoring reporting tool and the Dublin Declaration reporting process. For the purposes of reporting, the threshold for suppression is a viral load of less than 1000 copies per ml, although some countries may set lower thresholds or require persons to achieve an undetectable viral load. This guidance also specifies only a person's last test result from the reporting year be submitted, so the reported number suppressed among those tested should represent people and not tests performed.

UNAIDS2019 Global AIDS Monitoring guidelines were revised from those of 2018 to clarify that countries should report viral load suppression outcomes, regardless of testing coverage. However, viral load testing results will only be published in countries where access to testing is for all or nearly all (>90%) people on treatment or nationally representative (typically 50–90% testing coverage). Table 1 shows the increase in the number of countries able to report on viral load suppression compared to previous years. In 2015, only 26 countries had reliable estimates; in 2018, there were 76 countries with reported data.

For countries with nationally representative but not universally accessible access to treatment, the estimate of viral suppression among those tested (i.e., the third 90) was multiplied by the number of people on treatment to obtain overall viral suppression levels in the country. Countries where testing coverage was 90% or higher reported only the number suppressed among all people on treatment.

A number of challenges exist in using country-reported data to monitor the viral load suppression target. First, routine viral load testing may not be offered at all treatment facilities, and those facilities that do offer it may not be representative of the care available at facilities without viral load testing. By assuming that the percentage of people suppressed among those accessing viral load testing is representative of all people on treatment countries that do not have complete access to testing, the measure may be overestimated or underestimated (depending on the characteristics of the reporting clinics).

⁴ The document is available at http://www.unaids.org/en/resources/documents/2016/how-many-people-living-with-HIV-access-treatment.

TABLE 1Data availability for constructing UNAIDS measures of progress against the90-90-90treatment targets

		Asia and the Pacific	Caribbean	Eastern Europe and central Asia	Eastern and southern Africa	Latin America	Middle East and North Africa	Western and central Africa	Western and central Europe and North America	Global
Number of countries		38	16	16	21	17	20	25	40	193
Number of countries in UNAIDS global estimates		28	10	16	20	17	19	24	36	170
Number of	2015	20	9	12	20	16	15	24	23	139
countries with publicly available	2016	20	9	12	20	16	15	24	24	140
data on estimates of people living	2017	20	9	12	20	16	15	24	23	139
with HIV	2018	20	9	12	20	16	15	24	21	137
Number of	2015	8	6	7	20	6	6	18	9	80
countries with publicly	2016	9	6	8	20	8	6	18	18	93
available data on knowledge of	2017	12	7	9	20	8	6	18	18	98
HIV status	2018	15	6	12	20	9	9	18	13	102
Number of	2015	20	9	13	20	16	15	24	21	138
countries	2016	20	9	13	20	16	15	24	23	140
with publicly available data on	2017	21	9	13	20	16	15	24	24	142
treatment	2018	22	9	14	20	16	17	24	21	143
Number of	2015	5	0	5	3	4	4	1	4	26
countries with publicly available	2016	5	2	5	8	7	4	1	13	45
data on people with suppressed	2017	7	4	8	7	8	6	3	12	55
viral load	2018	9	7	11	13	11	9	6	10	76

Source: UNAIDS special analysis, 2019.

Another challenge in measuring the accuracy of viral load suppression estimates is that UNAIDS guidance requests routine (i.e., annual) viral load testing results only for people who are on treatment and eligible for testing. If people newly initiated on treatment achieve viral suppression but have not yet been offered viral load testing, they will be incorrectly counted as not suppressed, and the resulting viral suppression estimate will be understated. UNAIDS also requests countries to only report results from routine viral load testing: if countries report test results primarily performed because of suspected treatment failure, the number of people virally suppressed in these countries will be underestimated. UNAIDS validates country submissions for quality, but it is not always possible to identify cases where both routine and other types of testing are occurring. Finally, UNAIDS guidance recommends reporting viral load test results only for people on antiretroviral therapy; persons who are not on treatment and naturally suppress the virus will not be included in this measure.

METHODS FOR CONSTRUCTION THE 90–90–90 TREATMENT TARGET AT THE REGIONAL AND GLOBAL LEVELS

All programme data submitted to UNAIDS were validated by UNAIDS and its partners prior to publication. Country-submitted data that did not meet the required validation checks for quality either at the indicator level or across the treatment cascade were not included in the composite regional or global measures.

To estimate regional and global progress against the 90–90–90 targets, UNAIDS imputed missing country data for the first and third 90 targets using a Bayesian hierarchical model with uncertainty based on regional trends, sex differences and country-specific data for those countries reporting data for some but not all years. Additional details on the modelling approach are available in a forthcoming article (4). The proportion of data on knowledge of status and viral load suppression that was imputed by region from 2015 to 2018 are shown in Table 18.2.

Due to large differences in the proportion of people virally suppressed in western and central Europe and the United States for the years in which data were available, sub-regional estimates for North America and western and central Europe were separately calculated and then combined to estimate the western and central Europe and North America regional results at large. Upper and lower ranges of uncertainty around the global and regional estimates of the HIV testing and treatment cascade are provided that reflect uncertainty in the number of people living with HIV and uncertainty (from missing country data) in the number of people who know their HIV status and the number of people who are virally suppressed. Based on reports from data quality reviews prior to 2017, uncertainty from possible overreporting or underreporting of treatment numbers of 0.88 and 1.04 for the lower and upper bounds, respectively, was added to the bounds of treatment

coverage among people living with HIV and the second and third 90s. Upper and lower ranges of uncertainty for the 90s do not capture uncertainty in the reported or missing programme data on the numbers of people who know their HIV status or the number of people on treatment who are virally suppressed.

As in previous years, results of global and regional progress towards the 90–90–90 treatment target presented in this report supersede all previously published estimates. The new approach to modelling the global and regional estimates of the first and third 90s builds on the previous UNAIDS approach, which was to calculate missing -data for countries using the ratio of knowledge of status and treatment for the first 90 and the ratio of the number of people suppressed among those on treatment in the region for countries where data were available. One of the benefits of the new approach is that it can use reported data when they are available to estimate trends in and across the region. Also, it is now possible to measure progress separately among adults by sex.

As with the previous approach, one primary drawback to the model is that it is difficult to quantify the extent to which progress in countries that reported data to UNAIDS is similar to that of countries without data in the region. This is particularly true for viral load suppression estimates, where reported data in some regions—especially in 2015 and 2016—are limited. For example, no countries in the Caribbean in 2015 were able to meet the threshold coverage of 50% testing coverage for reporting estimates of viral load suppression. In Asia and the Pacific, national-level estimates of viral load suppression are not available in any year for India and prior to 2018 for China. As access to viral load testing improves over time, the accuracy of the estimates of the third 90 will improve. TABLE 2Proportion of imputed data used to estimate the regional and global measures of the percentageof people living with HIV who know their HIV status and the percentage of people living with HIV ontreatment who are virally suppressed

	Estimates of people living with HIV where knowledge of status is imputed (%)				People living with HIV on treatment where viral suppression is imputed (%)			
	2015	2016	2017	2018	2015	2016	2017	2018
Asia and the Pacific	12	8	10	51	83	84	85	56
Caribbean	7	5	5	18	100	96	63	51
Eastern Europe and central Asia	65	69	68	5	77	76	75	4
Eastern and southern Africa	0	0	0	0	58	33	46	21
Latin America	24	21	20	22	33	29	28	28
Middle East and North Africa	21	25	19	28	63	63	46	37
Western and central Africa	2	2	0	2	99	99	98	47
Western and central Europe and North America	29	4	82	95	33 6 87 98			
Global	8	6	10	15	62	46	60	35

Source: UNAIDS special analysis, 2019.

DATA ON KEY POPULATIONS

DISTRIBUTION OF NEW HIV INFECTIONS BY SUBPOPULATION

The distribution of new HIV infections among subpopulations globally and by region was estimated based on data for 177 countries using five data sources.

For countries that model their HIV epidemic based on data from subpopulations, including key populations, the numbers of new infections were extracted from Spectrum 2019 files. This source provided data for sex workers from 59 countries, for people who inject drugs from 37 countries, for gay men and other men who have sex with men from 61 countries, and for transgender people from 19 countries (all of which were located in Latin America, the Caribbean and Asia and the Pacific). Additionally, 22 countries (mostly from Asia and the Pacific) had data from clients of sex workers.

The second source was mode of transmission studies conducted in countries between 2006 and 2012. The proportions of new infections estimated for each subpopulation, calculated by modes of transmission analyses, were multiplied by the number of total new gender-specific adult infections (among those aged 15–49 years) to derive an estimated number of new infections by subpopulation. This source provided data for sex workers from 18 countries, for people who inject drugs from 25 countries, and for gay men and other men who have sex with men from 22 countries.

New HIV infections for European countries with neither of the aforementioned data sources were derived from the European Centre for Disease Prevention and Control (ECDC) and WHO Regional Office for Europe HIV/AIDS surveillance in Europe 2017–2018 data (4). The proportions of new diagnoses for each region in Europe (western, central and eastern) were applied to UNAIDS estimates of new infections in each country for people who inject drugs, gay men and other men who have sex with men, and transgender people. Data for sex workers were not available from the ECDC report. New HIV infections in China, India, the Russian Federation and the United States were taken from the most recent available national reports of new diagnoses.

New HIV infections among countries without a direct data source were calculated from regional benchmarks. The benchmarks were set by the median proportion of new infections in the specific subpopulation in all available countries in the same region. The majority of these countries were located in sub-Saharan Africa. There were 112 countries that used benchmark values for the sex work estimate, 92 countries for the people who inject drugs estimate, 69 countries for the gay men and other men who have sex with men estimate, and 82 countries for the transgender people estimate.

The calculated proportions of infections for each key population include the sex partners of members of key populations. New infections among sex partners of key populations were estimated using the number of sex partners and transmission probabilities from the literature.

QUALITY OF POPULATION SIZE ESTIMATES

The regional sections of this report include tables on the estimated size of key populations. These data are based on values reported through Global AIDS Monitoring in 2018. A comprehensive review of the data was conducted during this reporting round and therefore estimates should not be compared with data presented in previous UNAIDS' reports. As a result of this process, the estimates reported can be categorized as follows:

- "National population size estimate" refers to estimates that are empirically derived using one of the following methods: multiplier, capture-recapture, mapping/enumeration, network scale up method (NSUM) or population-based survey, or respondent driven sampling-successive sampling (RDS-SS).
 Estimates had to be national or a combination of multiple sites with a clear approach to extrapolating to a national estimate.
- "Local population size estimate" refers to estimates that are empirically derived using one of the before mentioned methods but only for a subnational group of sites that are insufficient for national extrapolation.
- "Insufficient data" refers either to estimates derived from: expert opinions, Delphi, wisdom of crowds, programmatic results or registry, regional benchmarks or unknown methods or estimates derived prior to 2010. Estimates may or may not be national.

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