Target 3.3: By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases Indicator 3.3.1: Number of new HIV infections per 1,000 uninfected population, by sex, age and key populations

Institutional information

Organization(s):

The Joint United Nations Programme on HIV/AIDS (UNAIDS)

Concepts and definitions

Definition:

The number of new HIV infections per 1,000 uninfected population, by sex, age and key populations as defined as the number of new HIV infections per 1000 person-years among the uninfected population.

Rationale:

The incidence rate provides a measure of progress toward preventing onward transmission of HIV.

Methodology

Computation Method:

Longitudinal data on individuals are the best source of data but are rarely available for large populations. Special diagnostic tests in surveys or from health facilities can be used to obtain data on HIV incidence. HIV incidence is thus modelled using the Spectrum software.

Disaggregation:

General population, Key populations (men who have sex with men, sex workers, people who inject drugs, transgender people, prisoners), Age groups (0-14, 15-24, 15-49, 50+ years), for key populations (< 25, 25+ years), mode of transmission (including mother-to-child transmission), place of residence, sex

Treatment of missing values:

At country level

Estimates are not collected from countries with populations < 250,000. In addition no estimates are available for 10 countries with very small HIV epidemics who do not produce estimates.

For some countries the estimates were not finalized at the time of publication. The country specific values are not presented for these countries.

At regional and global levels

The countries with populations < 250,000 and the 10 countries that do not produce estimates are not included in regional or global level estimates. For countries in which the estimates were not finalized at the time of publication, the unofficial best estimates are included in the regional and global values.

Regional aggregates:

NA

Sources of discrepancies:

These variations will differ by country.

Methods and guidance available to countries for the compilation of the data at the national level:

A description of the methodology is available at:

http://www.unaids.org/sites/default/files/media asset/2016 methods-for-deriving-UNAIDS-estimates en.pdf

Countries are providing with capacity building workshops every two years on the methods. In addition, they are supported by in country specialists in roughly 45 countries. Where no in country specialists are available remote assistance is provided. Guidelines are also available at:

http://www.unaids.org/en/dataanalysis/datatools/spectrumepp and at www.avenirhealth.org

Quality assurance

http://www.unaids.org/sites/default/files/media asset/2016 methods-for-deriving-UNAIDS-estimates en.pdf

Countries are fully involved in the development of the estimates. The final values are reviewed for quality by UNAIDS and approved by senior managers at national Ministries of Health.

Data Sources

Description:

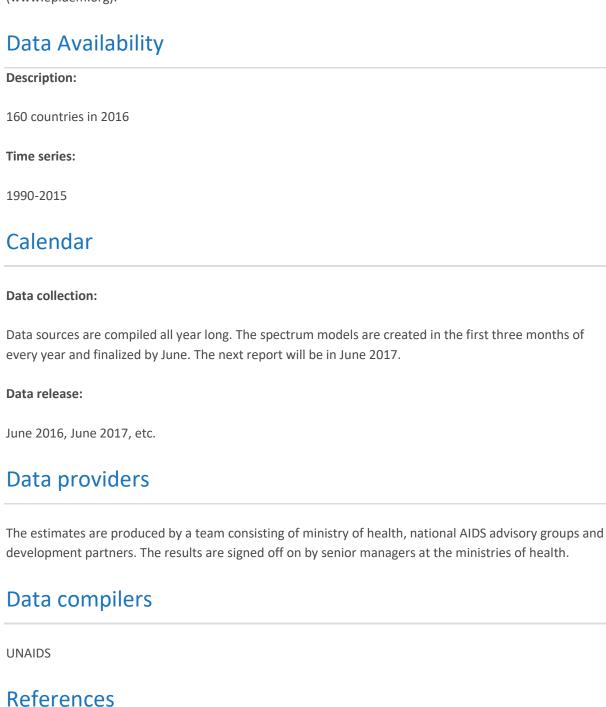
Spectrum modelling, household or key population surveys with HIV incidence-testing,

Other possible data sources: Regular surveillance system among key populations.

Collection process:

Country teams use UNAIDS-supported software to develop estimates annually. The country teams are comprised of primarily epidemiologists, demographers, monitoring and evaluation specialists and technical partners.

The software used to produce the estimates is Spectrum—developed by Avenir Health (www.avenirhealth.org)—and the Estimates and Projections Package, which is developed by the East-West Center (www.eastwestcenter.org). The UNAIDS Reference Group on Estimates, Modelling and Projections provides technical guidance on the development of the HIV component of the software (www.epidem.org).



URL:

unaids.org

References:

http://www.unaids.org/en/dataanalysis/datatools/spectrumepp

UNAIDS Global AIDS response progress reporting 2015: construction of core indicators for monitoring the 2011

United Nations political declaration on HIV/AIDS. Geneva: Joint United Nations Programme on HIV/AIDS; 2015

http://www.unaids.org/sites/default/files/media_asset/JC2702_GARPR2015guidelines_en.pdf a2015.

UNAIDS website for relevant data and national Spectrum files http://aidsinfo.unaids.org/

Consolidated Strategic Information Guidelines for HIV in the Health Sector. Geneva: World Health Organization;

2015.http://www.who.int/hiv/pub/guidelines/strategic-information-guidelines/en/ accessed on 7 October 2015