TB incidence rate

Abbreviated name	TB incidence rate
Indicator name	Tuberculosis (TB) incidence (per 100 000 population)
Domain	Health status
Subdomain	Infectious disease
Associated terms	Morbidity
Definition	Estimated number of new and relapse TB cases (all forms of TB, including cases in people living with HIV) arising in a given year, expressed as a rate per 100 000 population.
Numerator	Number of new and relapse TB cases arising in a specified time period.
Denominator	Number of person-years of exposure.
Disaggregation/ additional dimension	Age, HIV status, sex
Method of measurement	Direct measurement requires high-quality surveillance systems in which underreporting is negligible, and strong health systems so that underdiagnosis is also negligible; otherwise indirect estimates based on notification data and estimates of levels of underreporting and underdiagnosis.
Method of estimation	Estimates of TB incidence are produced through a consultative and analytical process led by WHO and are published annually. These estimates are based on annual case notifications, assessments of the quality and coverage of TB notification data, national surveys of the prevalence of TB disease and information from death (vital) registration systems. Estimates of incidence for each country are derived, using one or more of the following approaches depending on available data: 1. incidence = case notifications/estimated proportion of cases detected; 2. incidence = prevalence/duration of condition; 3. incidence = deaths/proportion of incident cases that die. Uncertainty bounds are provided in addition to best estimates. Details are available from *TB impact measurement: policy and recommendations for how to assess the epidemiological burden of TB and the impact of TB control* and from the online technical appendix to the *WHO global tuberculosis report 2014*.
Measurement frequency	Annual
Monitoring and evaluation framework	Impact
Preferred data sources	High quality TB surveillance system (linked to routine facility information system)
Other possible data sources	Population-based health surveys with TB diagnostic testing
Further information and related links	Definitions and reporting framework for tuberculosis – 2013 revision (WHO/HTM/TB/2013.2). Geneva: World Health Organization; 2013 (http://www.who.int/tb/publications/definitions/en/, accessed 29 March 2015). Global tuberculosis report 2014. Geneva: World Health Organization; 2014 (http://www.who.int/tb/publications/global_report/en/, accessed 29 March 2015). Indicators for monitoring the Millennium Development Goals: definitions, rationale, concepts and sources. New York (NY): United Nations; 2012 (http://mdgs.un.org/unsd/mi/wiki/MainPage.ashx, accessed 29 March 2015). World Health Assembly governing body documentation: official records. Geneva: World Health Organization (http://apps.who.int/gb/or/, accessed 29 March 2015).