

Metadata – Tuberculosis

Description	<p>Two indicators were considered:</p> <ol style="list-style-type: none"><i>Tuberculosis incidence</i>: the number of new cases of active tuberculosis occurring in one year in a population, expressed as a rate per 100 000 population.<i>Tuberculosis estimated incidence</i>: the 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.
Rationale	<p>Tuberculosis is a major public health problem in low and middle-income countries [1] and a durable health problem in high-income countries, especially among vulnerable populations [2].</p> <p>Ending tuberculosis (TB) epidemic by 2030 is one of the United Nations Sustainable Development Goals (SDGs) [3]. More especially, the World Health Organization (WHO) has developed a new post-2015 global tuberculosis strategy: The End TB Strategy [4]. This strategic goal is to end the global TB epidemic, including targets for 2035 (compared to 2015), i.e. a 90% reduction in TB incidence rate (less than 10 TB cases per 100 000 population).</p> <p>Tuberculosis incidence per 100 000 is one of the indicators allowing to monitor and evaluate progress towards achieving the target of SDGs and of The End TB Strategy.</p>
Primary Data source	<ol style="list-style-type: none">The Belgian Tuberculosis Registry.Estimates of the TB disease burden, European Region, 2018
Indicator source	<ol style="list-style-type: none">Fonds des Affections Respiratoires (FARES) and Vlaamse Vereniging voor Respiratoire Gezondheidszorg en Tuberculosebestrijding (VRGT).European Center for Disease prevention and Control (ECDC)/ WHO
Periodicity	<ol style="list-style-type: none">Annually since 2002Annual
Calculation, technical definitions and limitations	<ol style="list-style-type: none">The Belgian Tuberculosis Registry is a compilation of the registries of Flanders, Wallonia and Brussels-Capital Region. Each new case of active tuberculosis is notified by the medical practitioners via MATRA in Wallonia and Brussels and via a declaration form sent to the Agentschap Zorg en Gezondheid in Flanders. Case registration is made by the FARES/VRGT and the Agentschap Zorg en Gezondheid and allows to produce crude incidence rates. The incidence rate is expressed in a rate per 100 000 inhabitants and calculated as the number of new cases reported in the population (including non-residents people) for a given period divided by the population in the same period.Estimates of the TB disease burden are provided by WHO using a methodology developed by the Global Task Force on TB Impact Measurement [5] and are presented in the ECDC/WHO report “Tuberculosis surveillance and monitoring in Europe 2020 – 2018 data” [6]. Estimates are based on annual notification data adjusted by a standard factor to account for underreporting, over-diagnosis and under-diagnosis, excepted for the Netherlands, the United Kingdom and France. For France, the adjustment was country-specific, based on results from studies on underreporting. For the United Kingdom and the Netherlands, WHO used a capture-recapture analysis combined with the results from national inventory studies measuring the level of underreporting. For more details, see the WHO Global Tuberculosis report 2018 technical appendix [7].

For the calculation of rates, ECDC used population denominators obtained from United Nations Population Division statistics [8].

A limitation is that the quality of reported data is depending on the quality and the coverage of the surveillance system.

International comparability

- a) Notifications of cases provide a good proxy of tuberculosis incidence if there is limited underreporting, under or over-diagnosis of cases. The international comparison must be interpreted with caution since there is a lot of variability in collecting methods and coverage standards depending the country.
 - b) Country-specific estimates of TB disease burden published by WHO are generally consistent from year to year, and allow international comparison.
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References List

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8. World population prospects: the 2017 revision, medium variant. In: United Nations DESA/Population Division [website]. New York (NY): United Nations DESA/Population Division; 2017
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