



# TUBERCULOSIS

Tuberculosis (TB) is a contagious airborne disease caused by infection of a bacterium called *Mycobacterium tuberculosis*. TB mainly affects the lungs.

## TUBERCULOSIS<sup>1</sup>

- Tuberculosis is recognized as a **major global health problem** and one of the leading causes of death linked to a single infectious agent.
- **Many countries** concerned are low- and middle-income countries due to poverty and lack of access to proper sanitation.
- Seven countries account for 60% of TB-related deaths: India, Indonesia, China, Philippines, Pakistan, Nigeria and South Africa.
- Multidrug-resistant TB (MDR-TB) remains a public health crisis and a health security threat. A global total of 200,000 people with multidrug-resistant TB were detected and notified in 2018 – a 67% increase from 2010.
- Ending the TB epidemic by 2035 is one of the health targets of the United Nations Sustainable Development Goals (SDGs).

## TRANSMISSION<sup>2</sup>

- TB spreads through inhaling tiny droplets from the coughs or sneezes of a person with active TB disease (3 persons can infect 2 others).
- Poverty and poor living conditions (overcrowding, lack of ventilation) lead to increased transmission of *Mycobacterium tuberculosis*.
- Many other factors (immunosuppression, prior course of disease, transmission)

## THE BURDEN OF TUBERCULOSIS<sup>3</sup>

2/3 of the global population is infected with *Mycobacterium tuberculosis*, presenting a latent TB form, of which 10 to 15% will progress to active disease.

**10 million people die every year from TB**

**1.4 million people die annually from TB**

**40% of TB deaths occur in LMIC countries**

**60% of TB-related deaths occur in 7 countries**



WHO, 2018, [www.who.int](http://www.who.int)

## TUBERCULOSIS INFECTION<sup>4</sup>

Tuberculosis has 2 major forms: **latent TB infection (LTBI)** and **active TB disease**.

- 10 to 15% of people infected with TB develop immunity and do not transmit infection. This form is known as **latent TB infection**.
- 5 to 10% of people infected with develop **active TB disease**.

# Tuberculosis Monograph

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## **Tuberculosis Monograph:**

*The Challenge of Tuberculosis in the 21st Century* Alberto L. García-Basteiro, Füsün Öner Eyüboğlu, Molebogeng X. Rangaka, 2023-09-01 Recent years have witnessed key developments in the diagnosis and treatment of tuberculosis. Alongside this and running in direct opposition to this progress was the COVID 19 pandemic which had an unprecedented detrimental effect on tuberculosis control and the achievement of targets set by the End TB Strategy. This timely and important Monograph provides a crucial update on recent changes, developments and setbacks in the field and calls for a recommitment to the achievement of the End TB Strategy and Sustainable Development Goals. Written by authors from across the world, the Monograph covers diagnosis, advances in treatment, prevention and tuberculosis control challenges in different populations and contexts. Tuberculosis Monograph New York (N.Y.). Department of Health, 1917. Tuberculosis Giovanni Battista Migliori, Graham Bothamley, Raquel Duarte, Adrian Rendon, 2018-12-01 With over 10 million new TB cases and 1.6 million deaths TB is a global health priority. Multidrug resistant TB is of particular concern to both clinicians and national TB programmes. In 2017 there were 558 000 new rifampicin resistant cases and 460 000 confirmed multidrug resistant TB cases. Despite extensive investigation over the years there is still a great deal to learn about the prevention, diagnosis and treatment of TB. This Monograph brings together chapters from global TB experts and begins with a patient's perspective that sets the tone. The following chapters cover the history of TB epidemiology, strategies for control and elimination, clinical and laboratory diagnosis, imaging, treatment and drugs, TB in children and different patient populations, comorbidities, clinical cases and much more. **WHO operational handbook on tuberculosis. Module 4** World Health Organization, 2021-06-30 The WHO operational handbook on tuberculosis Module 4 Treatment provides comprehensive guidelines for the treatment of drug susceptible tuberculosis (DS-TB). The handbook outlines various regimens including 6 month and 4 month treatment plans and addresses specific considerations for populations such as people living with HIV, pregnant women and individuals with chronic conditions like diabetes and renal failure. It emphasizes the use of adjuvant steroids in the treatment of tuberculous meningitis and pericarditis and details monitoring strategies for treatment response. Intended for healthcare professionals and policymakers, the handbook aims to optimize TB treatment outcomes and support global TB control efforts. **Tuberculosis Monographs** New York (N.Y.). Department of Health, 1917. Tuberculosis Monograph, 1916. **Tuberculosis Monograph** New York (N.Y.). Department of Health, 1916. Bulletin of the National Association for the Study and Prevention of Tuberculosis National Association for the Study and Prevention of Tuberculosis (U.S.), 1914. **Wood's Medical and surgical monographs. v. 3, 1889**, 1889. Framingham Monographs, 1918. Hand Book of Information Regarding the Routine Procedure of the Bureau of Infectious Diseases, 1914 New York (N.Y.). Bureau of Infectious Diseases, John Shaw Billings, 1914. Monographs of the Rockefeller Institute for Medical Research Rockefeller University, 1924. Index of NLM Serial Titles National Library of Medicine (U.S.), 1981 A keyword listing of

serial titles currently received by the National Library of Medicine      Gynecological and Obstetrical Monographs Charles Camblos Norris,1921      *Bulletin of the Public Affairs Information Service* Public Affairs Information Service,1920

**Diagnosis, Prevention and Treatment of Exercise-Related Asthma, Respiratory and Allergic Disorders in Sports** K-H. Carlsen,L. Delgado,S. Del Giacco,2005-11-01 Asthma and allergy represent increasing problems for the actively competing athlete The prevalence of exercise induced asthma EIA has increased over the last two decades especially amongst elite endurance athletes it has been reported that high level endurance training in particular may increase bronchial hyperresponsiveness BHR and cause inflammation in the airways Intensive endurance training and competition together with environmental influences are thought to be causative factors For winter sports inhaled cold air represents such an environmental factor moreover exposure of c      The American City Arthur Hastings Grant,Harold Sinley Bittenheim,1917  
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