

TUBERCULOSIS (TB)



Caused by **Mycobacterium tuberculosis**.
 Commonly impacts the **lungs (pulmonary TB)** but can also affect **other areas (extrapulmonary TB)**.
 Leading cause of death for people with HIV and a major factor in **antimicrobial resistance**.



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Symptoms



Chronic cough with blood-tinged sputum



Loss of weight



Loss of appetite



Fever and night sweats



Fatigue

Transmission occurs through the air when an infected person coughs, sneezes, or speaks. Individuals with **latent TB**, who show no symptoms, do not spread the disease.



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Treatment

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- It is a curable disease. Treatment depends on whether it is **drug-resistant** or **simple tuberculosis**.



BPaLM Regimen for MDR-TB

- It consists of a four-drug combination - **Bedaquiline, Pretomanid, Linezolid and Moxifloxacin**.
- It is a **highly effective** and **shorter** treatment option than the previous MDR-TB treatment procedure.

Prevalence

Global TB-related Deaths in 2022 and 2023



Low- and middle-income countries carry **87%** of the global TB burden



Primary risk factors



Types of Drug-Resistant TB

Multidrug-Resistant TB (MDR-TB)
TB Bacteria resistant to at least **isoniazid** and **rifampicin**.

Extensively Drug-Resistant TB (XDR-TB)
TB bacteria resistant to isoniazid, rifampin, fluoroquinolone, and second-line injectables.

Government Strategies to end TB

National Tuberculosis Elimination Program (NTEP); Aims to eradicate TB in India by 2025.

Community Engagement Initiatives like the **Pradhan Mantri TB Mukt Bharat Abhiyan**



TB Preventive Therapy to individuals at high risk of developing active TB.

Project Axshya Plus involves contact tracing, testing, and managing latent TB infections.



Ni-kshay Mitras encourage public involvement in TB care and awareness.

Eliminating TB
UN aims to end the TB epidemic by 2030. India aims to eliminate TB by 2025.



The Tuberculosis Update

World Health Organization



The Tuberculosis Update:

Guide to Monitoring and Evaluation for Collaborative TB/HIV Activities -- 2015 Update World Health Organization, 2015-03-05 Preceded by A guide to monitoring and evaluation for collaborative TB HIV activities 2009 revision 2009

The Tuberculosis Update Alvin Silverstein, Virginia B. Silverstein, 2006 Clearly explains the symptoms of tuberculosis the history of the disease and gives information of diagnosis treatment and prevention

TB Notes, 2008

Digital adaptation kit for tuberculosis World Health Organization, 2024-05-01 Digital Adaptation Kits DAKs are part of WHO's SMART guidelines initiative This aims to ensure that the content of WHO's evidence based guidelines is accurately reflected in the digital systems being used at country level The DAKs provide software neutral operational and structured documentation based on WHO recommendations related to clinical care health systems and use of data to systematically and transparently inform the design of digital systems Standard components of each DAK include 1 linked health interventions and recommendations 2 user personas 3 user scenarios 4 business processes and workflows 5 core data elements mapped to standard terminology codes e.g the international classification of diseases 6 decision support 7 programme indicators and 8 functional and non functional requirements

WHO consultation on the translation of tuberculosis research into global policy guidelines, 2021-04-30 Regular review of evidence and assessment of country needs for policy across the cascade of care is part of the core function of the Global Tuberculosis Programme of the World Health Organization WHO GTB In this regard GTB organized a consultation 24 March 2021 assembling scientists public health experts partners civil society and countries to exchange views on emerging needs of Member States for policy guidance to discuss critical evidence gaps related to emerging global TB policy development needs and to identify topical strategies best positioned to enhance the implementation and evaluation of global TB policy guidance The present report summarizes the discussions from this meeting

Global Tuberculosis Report 2013 World Health Organization, 2013 This is the eighteenth global report on tuberculosis TB published by WHO in a series that started in 1997 It provides a comprehensive and up to date assessment of the TB epidemic and progress in implementing and financing TB prevention care and control at global regional and country levels using data reported by almost 200 countries that account for over 99% of the world's TB cases Two years before the 2015 deadline for achievement of global TB targets the 2013 report includes a special supplement that assesses progress towards the 2015 targets and the actions needed to accelerate towards or move beyond them The report has 8 main chapters The introductory chapter provides general background on TB as well as an explanation of global targets for TB control the WHO's Stop TB Strategy that covers the period 2006 2015 and the development of a post 2015 global TB strategy The remaining seven chapters cover the disease burden caused by TB incidence prevalence mortality TB case notifications and treatment outcomes drug resistance surveillance among TB patients and the programmatic response in detecting and providing treatment for multidrug resistant TB diagnostics and laboratory strengthening for TB addressing the co epidemics

of TB and HIV financing TB care and control and research and development for new TB diagnostics drugs and vaccines The four annexes of the report include a thorough explanation of methods used to estimate the burden of disease caused by TB one page profiles for 22 high TB burden countries and tables of data on key indicators for all countries organized by WHO region

Wisconsin AIDS/HIV Update ,2004 **NETWORKING 2008 Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet** Amitabha Das,2008-04-25 This book constitutes the refereed proceedings of the 7th International IFIP TC6 Networking Conference NETWORKING 2008 held in Singapore in May 2008 The 82 revised full papers were carefully reviewed and selected from numerous submissions for inclusion in the book The papers are organized in topical sections on ad hoc and sensor networks design and optimization MAC protocol overlay networking and routing next generation internet authentication modeling and performance evaluation multicast network measurement and testbed optical networks peer to peer and overlay networking peer to peer services QoS routing security traffic engineering and transport protocols wireless networks MAC performance mesh networks and mixed networks **Public health reports** ,2001

Wisconsin AIDS Update ,1989-04 **Lambda Update** ,1992 *Michigan Bovine Tuberculosis Activities Report 2003* Michigan Bovine Tuberculosis Eradication Project,2004 **TDR News** ,2006 **Panama Update** ,1992 *Immunization Update* ,1996 *Tuberculosis Surveillance and Monitoring in Europe 2012* ,2012 Background and technical note
 Commentary Commentary monitoring Tables Maps figures Country profiles *Chicago Medicine* ,1993 Colorado Health News ,1963 AJRCCM ,2008 **Global Tuberculosis Control** ,2010

The Tuberculosis Update Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Tuberculosis Update**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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