

TUBERCULOSIS (TB)

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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



India (26%)



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 Mukh Bharat Abhiyan**

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



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

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.



Tb Economics

SJ Ball



Tb Economics:

Economics and Statistics United States. Department of Agriculture. Economics and Statistics Service,1980 *Data science and health economics in precision public health* Demetris Lamnisos,Michael A. Talias,Alexandros Heraclides,2023-11-15 **Understanding the Economics of Microbial Threats** National Academies of Sciences, Engineering, and Medicine,Health and Medicine Division,Board on Global Health,Forum on Microbial Threats,2018-11-21 Microbial threats including endemic and emerging infectious diseases and antimicrobial resistance can cause not only substantial health consequences but also enormous disruption to economic activity worldwide While scientific advances have undoubtedly strengthened our ability to respond to and mitigate the mortality of infectious disease threats events over the past two decades have illustrated our continued vulnerability to economic consequences from these threats To assess the current understanding of the interaction of infectious disease threats with economic activity and suggest potential new areas of research the National Academies of Sciences Engineering and Medicine planned a 1 5 day public workshop on understanding the economics of microbial threats This workshop built on prior work of the Forum on Microbial Threats and aimed to help transform current knowledge into immediate action This publication summarizes the presentations and discussions from the workshop **TB Notes** ,2006 The Economics of the Global Response to HIV/AIDS Markus Haacker,2016-09-01 The global response to HIV AIDS has been a major aspect of global health and development policy over the last three decades The book illustrates the devastating health impacts of the epidemic with life expectancy in some countries falling to the lowest levels observed anywhere and the remarkable success of the global HIV AIDS response in reversing such extreme outcomes Concerns about the implications of HIV AIDS for economic development have played a role in motivating the global HIV AIDS response However evidence on the impacts of HIV AIDS on economic growth or poverty is weak and the magnitude and relevance of such economic effects appears trivial compared to the consequences for life and health Because of the success in extending access to treatment globally HIV AIDS has effectively transitioned into a chronic disease This means that HIV AIDS absorbs not only a substantial chunk of current global and national financial resources but that these spending needs are projected to persist over decades The costs of the HIV AIDS response thus resemble a long term financial liability shaped by past and current policies Relatedly the calculus of cost effectiveness of HIV AIDS interventions has changed People who become infected with HIV can now expect to not die because of AIDS at the same time each HIV infection results in medical needs and expenditures extending over decades The book presents a framework for integrating these financial consequences and the transmission dynamics of HIV in the analysis of cost effectiveness of HIV AIDS interventions and in the design of HIV AIDS programs Technical Bulletin ,1993 **Essential Tuberculosis** Giovanni Battista Migliori,Mario C. Raviglione,2021-07-26 This textbook covers the full spectrum of tuberculosis related topics in a comprehensive yet easy to follow readily accessible format Filling a significant gap in tuberculosis literature it

addresses tuberculosis sensu lato mirroring the content of the London Queen Mary University tuberculosis Diploma Covering all aspects related to this condition from prevention diagnosis and treatment to public and global health the book provides a broad overview of tuberculosis management Further it includes a wealth of case studies and exercises making it an essential guide for all staff involved in tuberculosis management Written by an international and interdisciplinary panel of experts the book appeals to a broad readership including students postdoctoral fellows clinicians researchers and nurses as well as public health officers working in tuberculosis control programs

economic benefit of tuberculosis control Ramanan Laxminarayan,2007 Agriculture Economics Reports ,1989 The Economics of Animal Health and Production Jonathan Rushton,2009 The efficient functioning of the livestock sector encompassing all facets of input supply production processing and marketing is critical for food security and safety This book draws on both extensive literature and experience in animal health economics and livestock issues in Europe Asia Africa and Latin America It provides comprehensive coverage of the history of livestock and animal health economics theory and tools for the economics of animal health and production a review of the application of economics to animal diseases and health problems and worldwide examples of economic analysis and policy making

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