

Guidelines for surveillance of drug resistance in tuberculosis

5th Edition



**World Health
Organization**

Guidelines Surveillance Drug Resistance Tuberculosis

**Bahagian Kawalan Penyakit,
Kementerian Kesihatan Malaysia**



Guidelines Surveillance Drug Resistance Tuberculosis:

Guidance for the surveillance of drug resistance in tuberculosis, sixth edition, 2021-02-12 The aim of this document is to assist national TB programmes in developing the strongest possible mechanisms of surveillance starting from periodic country specific surveys of sampled patients The ultimate goal is to establish continuous surveillance systems based on routine drug susceptibility testing DST This guidance promotes certain standardized criteria for surveillance to ensure that results are comparable within and between countries over time The target audience of this document is national TB programmes and in particular the coordination team for surveillance ideally composed of the programme manager a laboratory specialist a logistician and an epidemiologist statistician Guidelines for the Programmatic Management of Drug-resistant Tuberculosis World Health Organization, 2008 The emergence of extensively drug resistant strains of tuberculosis especially in countries with a high prevalence of human immunodeficiency virus is a serious threat to global public health and jeopardizes efforts to effectively control the disease This publication offers updated recommendations for the diagnosis and management of drug resistant tuberculosis in a variety of geographical economic and social settings and the recording of data that enables the monitoring and evaluation of programs Publisher s description **Guidelines for Surveillance of Drug Resistance in Tuberculosis**, 2009 This fourth edition of World Health Organization WHO Guidelines for surveillance of drug resistance in tuberculosis is an updated version of earlier editions published in 1994 1997 and 2003 These guidelines incorporate the 2007 WHO Interim recommendations for the surveillance of drug resistance in tuberculosis as well as the conclusions of an Expert Committee Meeting on Anti Tuberculosis Drug Resistance Surveys held in Geneva in September 2008 In addition the guidelines take into account recent advancements in laboratory diagnostics and subsequent WHO guidance including the 2008 WHO Policy guidance on drug susceptibility testing DST of second line anti tuberculosis drugs and the 2008 WHO Policy Statement Molecular line probe assays for rapid screening of patients at risk of multidrug resistant tuberculosis Furthermore these updated guidelines incorporate the wealth of experience gained from 15 years of the Global Project on Anti Tuberculosis Drug Resistance Surveillance hereinafter referred to as the Global Project a project initiated by WHO and the International Union Against Tuberculosis and Lung Disease The Union Page ix MYCDCGP - Clinical Practice Guidelines - Management of Drug Resistance of Tuberculosis Bahagian Kawalan Penyakit, Kementerian Kesihatan Malaysia, **Handbook of Global Tuberculosis Control** Yichen Lu, Lixia Wang, Hongjin Duanmu, Chris Chanyasulkit, Amie J. Strong, Hui Zhang, 2017-06-09 This ambitious reference surveys worldwide efforts at controlling the spread of tuberculosis with special emphasis on the developing world Case studies from China Pakistan Nigeria Indonesia and other frontline countries demonstrate a wealth of information on clinical cultural socioeconomic and other relevant factors This compilation provides a valuable resource for creating successful intervention and prevention strategies State of the science snapshots pinpoint where short and long term initiatives stand today from early detection and vaccination

programs to new genetic technologies and drug therapies This diverse group of perspectives and approaches offers innovative paths toward control and realistic odds for containing the threat especially in the face of current co epidemics and new drug resistant strains Among the topics in the Handbook Diagnosis of tuberculosis current pipeline unmet needs and new developments Concurrence of tuberculosis and other major diseases The tuberculosis outbreak response investigation and control The promise of new TB vaccines DNA fingerprinting of Mycobacterium tuberculosis a rich source of fundamental and daily applicable knowledge Global tuberculosis surveillance The Handbook of Global Tuberculosis Control is urgent reading for leadership and staff of non governmental organizations government agencies academic institutions research centers hospitals and potentially businesses with interests in tuberculosis control Additionally the book s focus on TB in developing countries will attract a wider audience of practitioners particularly those working in the broader fields of global public health epidemiology international development and the socioeconomics of infectious diseases

Guidelines for Surveillance of Drug Resistance in Tuberculosis WHO/IUATLD Global Project on Anti-tuberculosis Drug Resistance Surveillance, World Health Organization, 2003

The New Profile of Drug-Resistant Tuberculosis in Russia Russian Academy of Medical Sciences, Institute of Medicine, Board on Health Sciences Policy, Forum on Drug Discovery, Development, and Translation, 2011-08-07 An estimated 2 billion people one third of the global population are infected with Mycobacterium tuberculosis the bacterium that causes tuberculosis Spread through the air this infectious disease killed 1.7 million in 2009 and is the leading killer of people with HIV Tuberculosis TB is also a disease of poverty the vast majority of tuberculosis deaths occur in the developing world Exacerbating the devastation caused by TB is the growing threat of drug resistant forms of the disease in many parts of the world Drug resistant tuberculosis presents a number of significant challenges in terms of controlling its spread diagnosing patients quickly and accurately and using drugs to treat patients effectively In Russia in recent decades the rise of these strains of TB resistant to standard antibiotic treatment has been exacerbated by the occurrence of social political and economic upheavals The Institute of Medicine IOM Forum on Drug Discovery Development and Translation in conjunction with the Russian Academy of Medical Sciences held a workshop to discuss ways to fight the growing threat of drug resistant TB The New Profile of Drug Resistant Tuberculosis in Russia A Global and Local Perspective Summary of a Joint Workshop presents information from experts on the nature of this threat and how it can be addressed by exploring various treatment and diagnostic options

MYCD CGP - TB Guidelines for Nurses In The Care And Control Of Tuberculosis And Multi-Drug Resistant Tuberculosis Bahagian Kawalan Penyakit, Kementerian Kesihatan Malaysia,

Guidelines for the Management of Drug-resistant Tuberculosis John Crofton, Pierre Chaulet, Dermot Maher, 1997

Consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring World Health Organization, 2021-07-16 These consolidated guidelines on HIV prevention testing treatment service delivery and monitoring bring together existing and new clinical and programmatic recommendations across different ages populations and settings

bringing together all relevant WHO guidance on HIV produced since 2016 It serves as an update to the previous edition of the consolidated guidelines on HIV These guidelines continue to be structured along the continuum of HIV care Information on new combination prevention approaches HIV testing ARV regimens and treatment monitoring are included There is a new chapter on advanced HIV disease that integrates updated guidance on the management of important HIV comorbidities including cryptococcal disease histoplasmosis and tuberculosis The chapter on general HIV care contains a new section on palliative care and pain management and up to date information on treatment of several neglected tropical diseases such as visceral leishmaniasis and Buruli ulcer New recommendations for screening and treating of cervical pre cancer lesions in women living with HIV are also addressed in this chapter Guidance on service delivery was expanded to help the implementation and strengthening the HIV care cascade Importantly this guidance emphasizes the need for differentiated approaches to care for people who are established on ART such as reduced frequency of clinic visits use of multi month drug dispensing and implementation of community ART distribution The adoption of these efficiencies is essential to improve the quality of care of people receiving treatment and reduce the burden on health facilities particularly in resource limited settings Emerging Infectious Diseases ,2012

Protecting the United States from Drug-resistant Tuberculosis United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions,2009

Consolidated guidance on tuberculosis data generation and use. Module 1. Tuberculosis surveillance World Health Organization,2024-04-29

Since 1995 WHO has ensured a consistent approach to national regional and global TB surveillance by providing standardized definitions forms and registers for the recording and reporting of individual level and aggregated data about people diagnosed with and treated for TB which are used worldwide This standardization has facilitated the regular reporting of TB data to WHO from 215 countries and areas in annual rounds of global TB data collection with findings published in an annual WHO global TB report since 1997 and data made publicly available via the online WHO global TB database The goal of this 2024 edition of WHO guidance on TB surveillance following the last major update published in 2013 is to ensure the continued worldwide standardization of TB surveillance in the context of the WHO End TB Strategy the latest WHO guidelines on TB screening prevention diagnosis and treatment and commitments made at the 2023 UN high level meeting on TB while also promoting the establishment or strengthening of digital case based TB surveillance that is integrated within the overall public health architecture This 2024 edition provides a comprehensive and consolidated package bringing together both updated guidance as well as within web annexes closely related WHO products tools and documentation related to TB surveillance The web annexes and associated links to them are listed below The package was informed by and includes a summary of lessons learned about TB surveillance during more than 100 national TB epidemiological reviews conducted since 2013

WHO operational handbook on tuberculosis. Module 3 World Health Organization,2024-03-15

The WHO operational handbook on tuberculosis Module 3 Diagnosis Rapid diagnostics for tuberculosis detection third edition is

the latest edition replacing the one issued in 2021 A new class of technologies for drug susceptibility testing is endorsed by WHO and included in this edition targeted next generation sequencing The operational handbook aims at facilitating the implementation of the WHO recommendations by the Member States technical partners and others involved in managing patients with TB and DR TB It provides practical information on existing and new tests recommended by WHO step by step advice on implementing and scale up testing to achieve local and national impact and lastly model diagnostic algorithms which are updated to incorporate the latest recommendations An overview of budgetary considerations and information sheets on each of the newly recommended tests is provided The class of targeted next generation sequencing is recommended for the detection of resistance to a number of first and second line anti TB drugs rather than culture based phenotypic drug susceptibility testing The recommendations will open for faster detection of resistance to a range of anti TB drugs directly from sputum samples

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 patients 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

Tuberculosis E-Book H. Simon Schaaf, Alimuddin Zumla, 2009-03-24 This book provides all the vital information you need to know about tuberculosis especially in the face of drug resistant strains of the disease Coverage includes which patient populations face an elevated risk of infection as well as which therapies are appropriate and how to correctly monitor ongoing treatment so that patients are cured Properly administer screening tests interpret their results and identify manifestations of the disease with authoritative guidance from expert clinicians from around the world Discusses screening tests for tuberculosis so you can interpret their results and identify not only common manifestations of the disease but also those that are comparatively rare such as tuberculosis in pregnant women Covers all clinical aspects of tuberculosis in children including current practices on managing those infected with HIV Provides details on how best to interact with the public health system in both industrialized and developing countries Addresses the social aspects of tuberculosis and presents the latest advances on new and potential vaccines against tuberculosis Offers the expertise of internationally recognized tuberculosis clinicians to provide you with well rounded global coverage Features numerous illustrations to provide clear and detailed depictions of rare manifestations of tuberculosis

WHO consolidated guidelines on tuberculosis. Module 4 World Health Organization, 2025-03-14 The World Health Organization's Global Programme on Tuberculosis Lung Health WHO GTB has

integrated all existing recommendations into a single unified set of consolidated tuberculosis TB guidelines These guidelines are organized into modules each tailored to specific programmatic areas Module 4 Treatment and care encompass all current recommendations for managing drug susceptible and drug resistant TB alongside patient care and support strategies Developed according to WHO's rigorous standards the guidelines rely on the latest evidence reviews and the GRADE methodology to evaluate evidence quality and determine the strength of each recommendation Primarily aimed at health policymakers and National TB Programme NTP managers they also support healthcare providers and technical organizations engaged in TB care An operational handbook accompanies the guidelines providing practical advice for large scale implementation

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

WHO consolidated guidelines on tuberculosis. Module 3 World Health Organization, 2020-06-22 The political declaration of the first United Nations UN high level meeting on tuberculosis TB calls countries to diagnose and treat 40 million people with TB globally between 2018 and 2022 Traditionally in most countries TB diagnosis has been performed using sputum smear microscopy a method developed more than 100 years ago with suboptimal sensitivity In recent years new technologies have emerged based on the detection of mycobacterial DNA or mycobacterial antigens Over the past decade the World Health Organization WHO has published a number of guidelines developed by WHO convened Guideline Development Groups GDGs using the Grading of Recommendations Assessment Development and Evaluation GRADE approach to summarize the evidence and to formulate policy recommendations and accompanying remarks The present document WHO consolidated guidelines on tuberculosis Module 3 Diagnosis Rapid diagnostics for tuberculosis detection consolidates five guidelines developed by WHO between 2016 and 2020 Earlier guidelines on diagnostics that were not developed according to the GRADE approach have not been included in this document The WHO Consolidated Guidelines on Tuberculosis will group all TB recommendations in one document and will be complemented by matching modules of an operational handbook The handbook will provide practical advice on how to put in place the recommendations at the scale needed to achieve national and global impact A range of new diagnostic technologies have been endorsed by WHO during the past decade These are listed below real time polymerase chain reaction PCR assays for example Xpert MTB RIF r Ultra cartridge based and Truenat™ chip based line probe assays LPAs for example GenoType r MTBDRplus v1 and v2 Genoscholar™ NTM MDRTB II and GenoType r MTBDRsl loop mediated isothermal amplification LAMP for example TB LAMP and antigen detection in a lateral flow format biomarker based detection for example Alere Determine™ TB LAM Ag The present WHO consolidated guidelines on tuberculosis Module 3 Diagnosis Rapid diagnostics for tuberculosis detection provides background justification and recommendations on these technologies The document includes new recommendations on molecular assays intended as initial tests for the diagnosis of pulmonary and extrapulmonary TB and rifampicin resistance

in adults and children Antimicrobial Resistance United States. Congress. Senate. Committee on Health, Education, Labor,
and Pensions. Subcommittee on Public Health, 1999

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