



World Health
Organization

END TB



Tuberculosis and Non-Communicable Diseases



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Policy, Strategy and Innovations

Second Meeting of the WHO Global Coordination Mechanism (GCM/NCD)
Working Group on the inclusion Of NCDs in other programmatic areas

Global commitment to **End TB**

Moving from halting TB to ending TB by 2030



SDG TARGET 3.3 – BY 2030
END THE TB EPIDEMIC

The End TB Strategy: Vision, Targets and Pillars



Vision:

A world free of TB

Zero TB deaths, Zero TB disease, and Zero TB suffering

Goal:

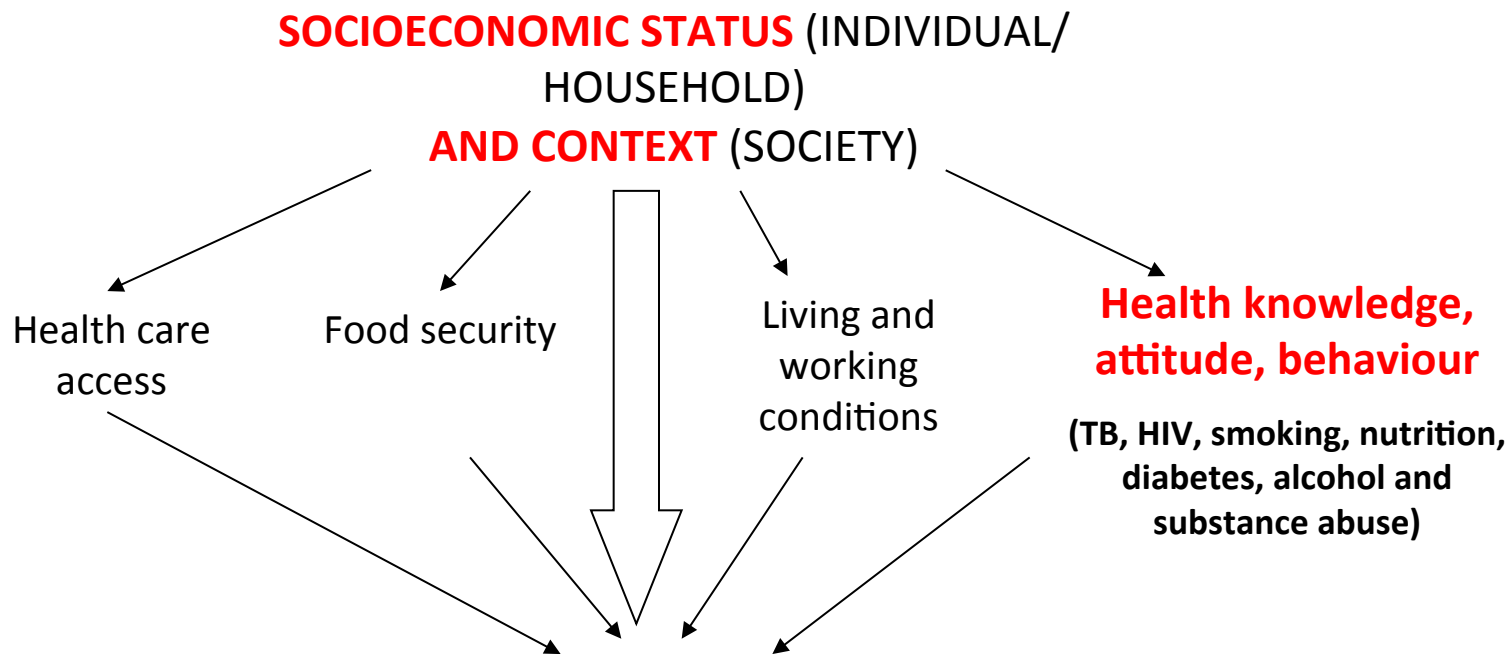
End the Global TB epidemic

TARGETS



	MILESTONES		SDG*	END TB
	2020	2025	2030	2035
Reduction in number of TB deaths <small>compared with 2015 (%)</small>	35%	75%	90%	95%
Reduction in TB incidence rate <small>compared with 2015 (%)</small>	20%	50%	80%	90%
TB-affected families facing catastrophic costs due to TB (%)	0%	0%	0%	0%

Ending TB will require a multisectoral approach to tackle risk factors



Influencing the risk of:

1. **Contact with infectious TB case**
2. **High level exposure to M tuberculosis**
3. **Infection**
4. **Progression to disease**
5. **Delayed diagnosis**
6. **Adverse outcomes**
 - Poor TB treatment outcome
 - Poor general health outcome
 - Catastrophic costs
 - Adverse social consequences

Population attributable fraction – risk factors for progression to disease

$$PAF = \frac{P \times (RR - 1)}{P \times (RR - 1) + 1}$$

	Relative risk for active TB disease	Weighted prevalence (adults 22 HBCs)	Population Attributable Fraction (adults)
HIV infection	20.6/26.7	0.8%	16%
Malnutrition	3.2	16.7%	27%
Diabetes	3.1	5.4%	10%
Alcohol use (>40g / d)	2.9	8.1%	13%
Active smoking	2.0	26%	21%
Indoor Air Pollution	1.4	71.2%	22%

Sources: Lönnroth K, Castro K, Chakaya JM, Chauhan LS, Floyd K, Glaziou P, Raviglione M. Tuberculosis control 2010 – 2050: cure, care and social change. Lancet 2010 DOI:10.1016/s0140-6736(10)60483-7.

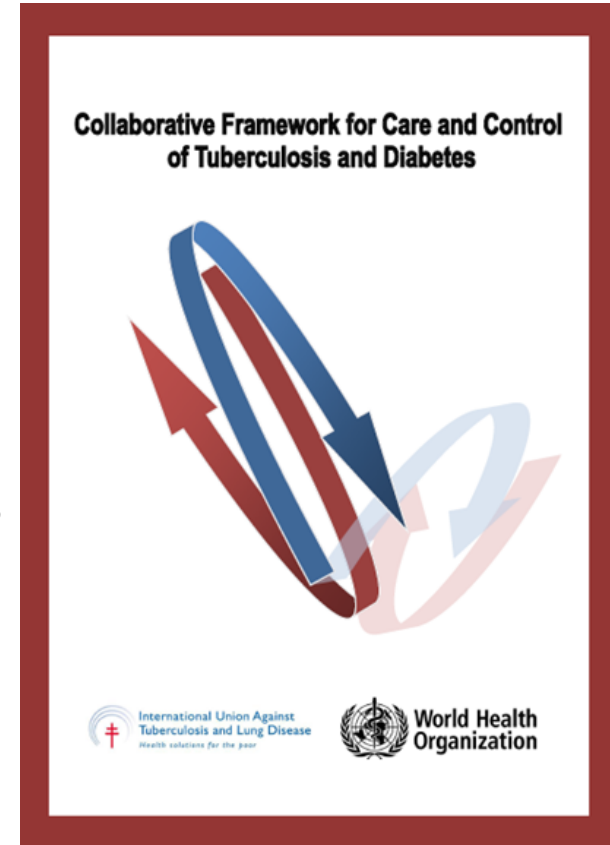
TB and diabetes

- **Deadly linkages**

- People with a weak immune system, as a result of chronic diseases such as diabetes, are at a higher risk of progressing from latent to active tuberculosis.
- Diabetes triples a person's risk of developing TB. About 15% of TB cases globally may be linked to diabetes
- TB can temporarily cause impaired glucose tolerance which is a risk factor for developing diabetes
- The likelihood that a person with TB will die or relapse is significantly higher if the person also has diabetes.
- A large proportion of people with diabetes as well as TB are not diagnosed, or are diagnosed too late.

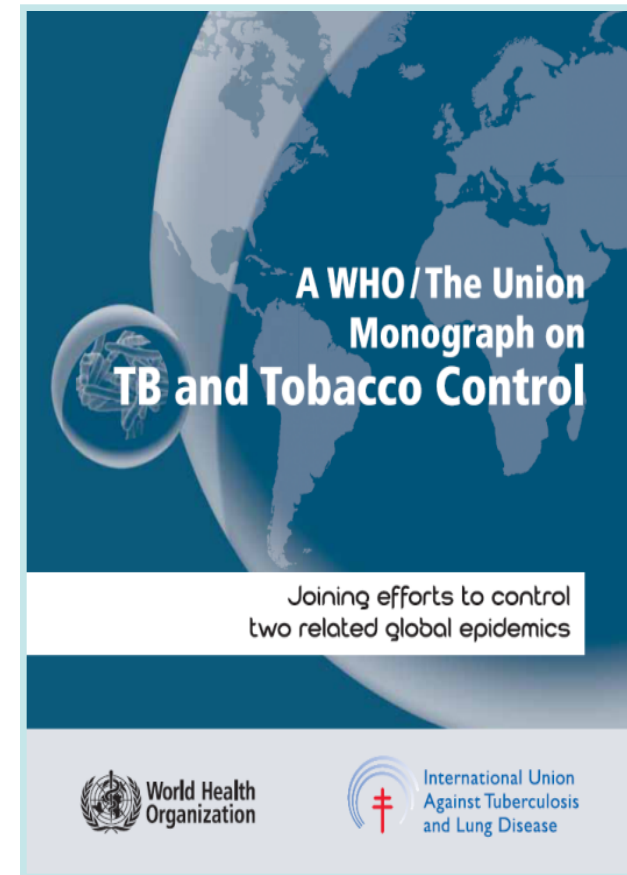
- **WHO Response**

- WHO has developed guidelines on TB and DM



TB and tobacco

- Tobacco smoking increases the risk of TB, as well as case fatality among people with TB
- Smoking prevalence is often high in people with TB
- Correct diagnostic work-up of people with respiratory symptoms is essential for prompt and correct diagnosis of TB and other respiratory diseases
- WHO has developed guidelines on Practical Approach to Lung-health (PAL) and a monograph on TB and tobacco control.



TB and alcohol

- Alcohol use disorders (AUD) and harmful alcohol use increases the risk of TB
- AUD and harmful alcohol use also increases the risk of poor treatment adherence and thus contributes to M/XDR-TB development
- AUD is highly prevalent in TB patients in some regions (especially EUR), and especially in people with MDR-TB
- No guidelines exist on AUD screening, and proper management of AUD in people with TB
- Research agenda/protocol developed with WHO substance abuse team, Uni of Toronto, and MRC SA



The End TB Strategy- Components

1. INTEGRATED, PATIENT-CENTRED CARE AND PREVENTION

- A. Early diagnosis of tuberculosis including universal drug-susceptibility testing, and systematic screening of contacts and high-risk groups
- B. Treatment of all people with tuberculosis including drug-resistant tuberculosis, and patient support
- C. Collaborative tuberculosis/HIV activities, and management of co-morbidities
- D. Preventive treatment of persons at high risk, and vaccination against tuberculosis

2. BOLD POLICIES AND SUPPORTIVE SYSTEMS

- A. Political commitment with adequate resources for tuberculosis care and prevention
- B. Engagement of communities, civil society organizations, and public and private care providers
- C. Universal health coverage policy, and regulatory frameworks for case notification, vital registration, quality and rational use of medicines, and infection control
- D. Social protection, poverty alleviation and actions on other determinants of tuberculosis

3. INTENSIFIED RESEARCH AND INNOVATION

- A. Discovery, development and rapid uptake of new tools, interventions and strategies
- B. Research to optimize implementation and impact, and promote innovations

END TB



Let us
UNITE TO
END TB
and **NCDS**



END TB