

Training Objectives

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Tokyo, Japan

WOAH Regional Hands-on Training on Zoonotic TB Diagnosis
Qingdao, China P.R., 1 – 5 September 2025



WHO Global Tuberculosis Report of 2023, in 2022, **Tuberculosis** (TB, *Mycobacterium tuberculosis*) was the second leading infectious human disease killer after COVID-19 and an estimated **1.3 million people** died of the disease in that year.

Nearly 90% of all human TB cases are located in South Asia (India, Bangladesh, Pakistan), East Asia (China), Southeast Asia (Philippines, Indonesia) and Africa

Bovine tuberculosis (bTB) is a chronic bacterial disease of animals caused by members of the *Mycobacterium tuberculosis* complex (MTBC) primarily by *M. bovis*, but also by *M. caprae* and to a lesser extent *M. tuberculosis*.

Zoonotic tuberculosis (zTB) is a form of tuberculosis that is transmitted from animals to humans predominantly caused by *M. bovis*.

In 2019, of the 10 million people infected with new active TB, 140,000 were estimated to be new cases of zTB (1.4%) of which an approximately 11,400 (8.1%) died.

The burden of Bovine TB in animals is largely under-reported/unknown

Background

1. The [Roadmap for Zoonotic Tuberculosis¹](#), published in 2017 by the Tripartite (FAO-WHO-WOAH) and the International Union Against Tuberculosis and Lung Disease

Goal – reduce disease burden of zoonotic TB in humans and animals and support WHO's *End TB Strategy* by 2030.

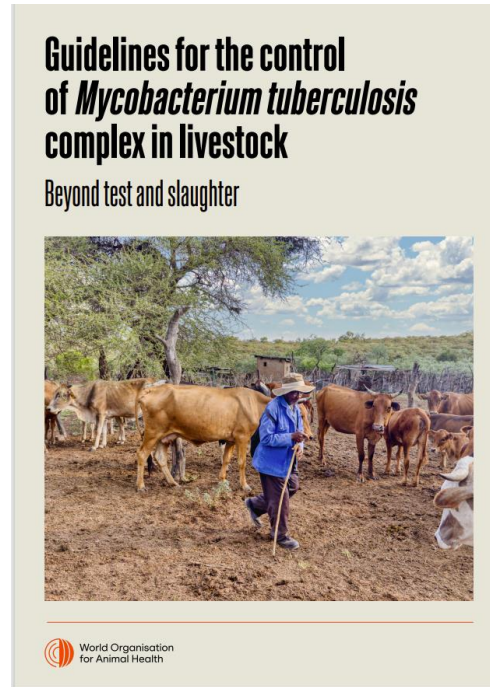
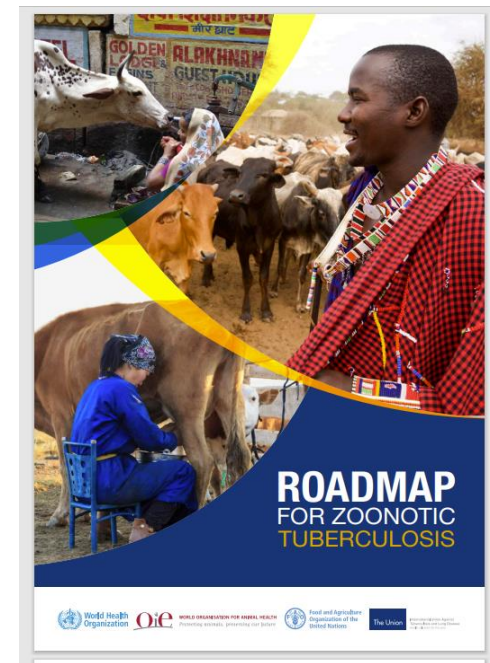
Improve surveillance and reporting of bovine TB in livestock and wildlife

2. WOAH Guidelines for the control of *Mycobacterium tuberculosis* complex in livestock

focusing on alternative strategies such as awareness, surveillance, isolation, regular testing, biosecurity, targeted control based on disease prevalence



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Regional Workshop on Zoonotic Tuberculosis, Qingdao, China P.R., 24-26

September 2024

4



- 50 participants, including 20 government representatives from **19 Members**
- The China Animal Health and Epidemiology Centre (CAHEC) under the Ministry of Agriculture and Rural Affairs (MARA) of the People's Republic of China
- **zTB endemic across Asia Pacific**
- **Only few countries free of zTB (Japan)**
- **Underreporting, diagnostic and surveillance challenges**, poor reporting structures in endemic countries.

This workshop shared updates on disease epidemiology, advances in diagnostics, vaccines, and best practices on zTB providing opportunities for networking and exploring available support to address gaps and challenges in countries.

- **Enhance laboratory diagnostic capacity** for bTB/zTB diagnosis in countries.
- **Improve bovine tuberculosis surveillance** capabilities on the ground, leading to enhanced disease detection, reporting, and control.
- **Foster networking and coordination** among bTB/zTB diagnostic laboratories within the region.

Training topics

- Bacterial culture, isolation and identification
- Delayed hypersensitivity skin tests (tuberculin skin test)
- Interferon gamma release assay (IGRA)
- Enzyme-linked immunosorbent assay (ELISA) antibody test
- Lateral flow antibody test
- PCR and other novel methods



Thank you!

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