MULTIDRUG-RESISTANT TUBERCULOSIS

TREATMENT AND SCREENING PROTOCOL

Tuberculosis (TB) is an infectious disease that most often affects the lungs and is caused by mycobacterium tuberculosis. In 2022, ~10.6 million people fell ill with TB globally, including ~5.8 million men, ~3.5 million women, and ~1.3 million children. Multidrug-resistant tuberculosis (MDR-TB) is a form of TB caused by bacteria that do not respond to isoniazid and rifampicin, the two most effective first-line TB drugs. While MDR-TB is treatable, patients often face various psychological and financial burdens during their treatment.

TREATMENT AND SCREENING PROTOCOL

- Globally, there were ~450 million incident cases of MDR-TB, up by ~3.1% from ~437 million in 2020 due to an increased overall incidence in TB between 2020 and 2021.
- MDR-TB remains a public health crisis and a health security threat. Only about 2 in 5 people with MDR-TB accessed treatment in 2022.



2^{•••} Regular checkups and monitoring for **adverse effects** are necessary, and consultation with a medical practitioner is advised if any issues arise.

aranca

KEY BURDEN AREAS

MDR-TB is a devastating disease that poses significant challenges for patients beyond the physical burden of the infection.

Key Burden Areas	Description
Financial Hardships	WHO estimates MDR-TB treatment in low-income countries at USD 4,000–6,000, while costs in high-income countries can range from USD 100,000 to USD 500,000. However, initiatives such as UNITAID's Medicine Patent Pool works with pharmaceutical companies to lower prices and enhance access to affordable MDR-TB drugs, resulting in substantial cost savings.
Lack of Mental Health Support	The psychological burden of MDR-TB, including fear of treatment failure and isolation, is often overlooked. Limited access to mental health services further undermines emotional well-being and treatment adherence.
Treatment Adherence Challenges	The complex and lengthy treatment regimen, coupled with side effects, lack of support, and logistical challenges such as transportation difficulties, can make adherence difficult, thereby compromising treatment outcomes and risking further drug resistance.
Delayed Diagnosis	Access to rapid and accurate diagnostic tests for MDR-TB is often limited, especially in resource-constrained settings. This delay in diagnosis can worsen the prognosis and increase transmission risks.

Right from understanding key issues to advising you through the right set of insights and recommendations, Aranca Research, consolidation, and insightful analysis to aid in-depth understanding of therapy and effective decision-making

HOW CAN ARANCA HELP?





maranca