## Multidrug-resistant tuberculosis (MDR-TB)

Multidrug-resistant TB (MDR-TB) is a severe form of drug-resistant TB with bacillary resistance to two important first-line anti-TB drugs, isoniazid and rifampicin.



## How does drug resistance develop?

Drug resistance develops when drug-resistant mutants are selected out by inadequate or inappropriate treatment.



MDR-TB treatment requires prolonged use of second-line drugs that are often more expensive and less well tolerated than firstline drugs. Thus, MDR-TB treatment may require more frequent monitoring than drugsusceptible TB, especially during the initial treatment phase. Although it is more difficult to treat MDR-TB than drug-susceptible TB, the majority is still curable.





Close contacts with MDR-TB patients

2 Previous TB treatment, especially with a history of treatment nonadherence







**Proper treatment regimen:** TB disease should be managed by





experienced doctors

**Prompt diagnosis of initial drug resistance:** Identify high-risk patients for rapid drug susceptibility testing, and properly save sputum for examination



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**Treatment adherence**: Directly Observed Treatment is the most reliable approach that can ensure patients take drugs as prescribed.

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