

MDR-TB (MULTI DRUG RESISTANT TB) BRIEF KHYBER PAKHTUNKHWA

- **Mission:** TB free Khyber Pakhtunkhwa
- **Vision:** Universal access to TB care achieving zero TB deaths
- **Goal:** To reduce the burden of Drug Resistant TB in Khyber Pakhtunkhwa.

Objective: To reduce by at least 5% per year by 2020 the prevalence of MDR TB among TB Patients who have never received any TB treatment

- MDR TB burden estimates in notified 2016 TB patients are 1300 based on Drug Resistant Survey conducted in 2012-2013 (4.2% Primary resistant in new TB cases and 16% resistant in Re treatment TB cases).
- Provincial MDR TB Coordination Committee is formulated and notified.
- GeneXpert machine is an automated real time PCR which detects Mycobacterium Tuberculosis and Rifampicin Resistant within 100 minutes. These machines are installed and functional in 33 major sites in 24 districts of the Province.
- Programmatic Management of Drug Resistant TB has been initiated in 05 major Teaching Hospitals of the Province i.e. Lady Reading Hospital Peshawar, Ayub Teaching Hospital Abbottabad, Mufti Mehmood Memorial Teaching Hospital DI Khan, Saidu Group of teaching Hospital Swat and Mardan Medical Complex Mardan.
- The Provincial TB Reference Bio safety level III Lab (BSL III) is linked with PMDT units regarding provision of Drug Susceptibility testing (DST) to the enrolled DR TB patients in the Province.
- Two BSL-II for AFB Culture Laboratories are functional in DHQ Abbottabad and MMMTH DI Khan.
- The Xpert data and ENRSs are reviewed regularly on monthly basis by PTP KP and are shared with National TB Control Programme, Islamabad.
- MDR TB OPDs & offices at LRH, ATH, MMMTH and SGTH are renovated under infection control measures.
- MDR & XDR TB wards are also functional in PMDT Lady Reading Hospital Peshawar.
- Programme has enrolled 1875 DR-TB cases in five Programmatic Management Drug Resistant TB (PMDT) sites of the Province from 2012 till 2Q 2018, whereas, 436 are currently on treatment. The treatment success rate is 65-70%.

- 06 Days basic master training (ToT) on DR-TB while 03 Days master training (ToT) on Ambulatory based model of care for DR-TB patients has been conducted at Provincial level and trained DTOs, NPOs and PMDT staff on Programmatic management of DR TB in 2012.
- 02 days basic and 01 day refresher training on Ambulatory based model of care for Doctors & Paramedics in DR TB Management has been conducted in all Districts of Khyber Pakhtunkhwa in 2014-2016.
- Introduction of new drug Bedaquiline in DR TB management at PMDT LRH for Flouroquinolones resistance & MDR Relapse cases.
- Introduction of short regimen from 09-12 months.
- Rapid Drug Susceptibility Testing to the Second line drugs LPA SLs (Flouroquinolone & second line Injectables) is in place.
- DR TB/HIV co infection screening and management is in place.
- Advocacy Sensitization Seminars has been conducted both in Tertiary & District Headquarter Hospitals.
- **CHALLENGES & WAY FORWARD:**
- Continuous supply of Xpert MTB/Rif assay kits for rapid diagnosis of MDR TB.
- Sustainability of Programmatic Management of Drug Resistant TB units and Continuous Supply of second line Anti Tubercular drugs & Social Support according to WHO guidelines.
- Active case finding with innovative approaches
- Research and innovation
- Sanatoria for XDR (Extensively Drug Resistant) TB cases, because there are 25,000 cases emerging every year globally while in Khyber Pakhtunkhwa there are 64 XDR TB cases are enrolled since 2012 till date.