

## **Determinants of Multidrug-Resistant Tuberculosis in Patients Who Underwent First-Line Treatment in Addis Ababa: A Case Control Study**

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**Abstract :** Worldwide, there were 650,000 multi-drug resistant tuberculosis (MDR-TB) cases in 2010. Ethiopia is 15th among the 27 MDR-TB high-burden countries. A case control study was conducted at St. Peter Hospital and five health centers in Addis Ababa. Cases were MDR-TB patients who were in treatment at St. Peter Hospital during the study period. Controls were patients who were on first-line anti-TB treatment and were registered as cured or having completed treatment in the period 9 April 2009– 28 February 2010, in five health centers. A structured interview questionnaire was used to assess factors that could potentially be associated with the occurrence of MDR-TB. Factors that were significantly associated with MDR-TB: drug side effects during first-line treatment (adjusted odds ratio (AOR): 4.5, 95% CI; 1.9 - 10.5); treatment not directly observed by a health worker (AOR = 11.7, 95% CI; 4-34.3); and retreatment with the Category II regimen (P = 0.000).

**Keywords :** adherence to TB treatment, MDR-TB, TB treatment, TB treatment regimens

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