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## Characterization of adverse effects and its associations in the patient medicated with anti-tubercular drugs

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**Background:** Adverse effects from long-term therapeutic intervention in tuberculosis are obvious. However, were taken nonchalantly due to the only therapeutic alternative.

**Objective:** The objective of this study was to characterize the adverse effects and its associations in the patient medicated with anti-tubercular drugs.

**Methods:** A longitudinal prospective study was conducted among the patient medicated with anti-tubercular drugs. As per the guideline of Nepal's National Tuberculosis Control Program me (NTP), Nepal, the treatment category was selected, fixed-dose-regimen was calculated, and treatment outcome was affirmed. Patients' demographics and other clinical details were extracted from the repository files. Upon a consecutive follow-up, observed adverse effects were noted and multivariate logistic analysis against independent factors was done for elucidating any association.

**Result:** Of 177 cases enrolled, 138(77.9%) reported at least two adverse effects. In our multivariate logistic analysis: female, abnormal Body Mass Index (BMI) i.e. underweight and overweight cases, patients' behaviors i.e. smoking/drinking or both clinical diagnosed cases and intensive treatment phase were independently associated with adverse side effects. Loss of appetite (85.4%) was the commonest while dermatologic manifestations (1.2%) and severe weight-loss (1.2%) were the least observed side-effects among the patient medicated with anti-tubercular drugs. Absolute drug-induced-toxicity was observed in treatment failure or MDR (Multi-Drug-Resistant) subjects.

**Conclusion:** Adverse effects from anti-tubercular therapy are associated with patients' demographics variables. Symptomatic treatment, regular follow-up after implicated therapy, and therapeutic-discontinuation may be required for successful outcomes.

## Notes: