



Applicant Information

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Abstract Details

Title:

Trend of Tuberculosis Case Notification and Treatment Outcome among Patients with Tuberculosis and HIV Co-Infection in Tamale Metropolis, Ghana.

Category:

Communicable diseases (Malaria, TB, HIV, NTD)

Authors:

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Objectives:

Tuberculosis (TB) remains a major public health threat, especially for people with HIV. Effective TB management needs accurate reporting and monitoring, which is often lacking. We examined the trends in TB case notification and treatment outcomes among TB-HIV co-infected patients in Tamale Metropolis.

Method:

We conducted a descriptive cross-sectional study in three Tamale Metropolis hospitals. Data on TB patients from 2018 to 2022 were collected from TB registers using Excel spreadsheet. Stata Version 16.0 was used for analysis, including descriptive statistics and multivariate logistic regression to identify factors influencing TB treatment outcomes.

Results:

We found that 113 (8.0%) of the 1,345 registered patient were positive for HIV. The overall case notification rate was 84.9 per 100,000 and during the five-year period, the case notification declined from 83.2 per 100,000 population in 2018 to 78.1 per 100,000 population in 2022. Again, successful treatment outcome was 883 (65.6%). The factors significantly associated with treatment outcome were disease type [AOR=0.58, 95% CI (0.44, 0.77)] and year of registration 2019 [AOR=0.42, 95 %CI (0.29, 0.62)].

Conclusion:

The prevalence of TB/HIV co-infection was marginally low compared to the national average. We observed a decline in the TB case notification from 2018 to 2022, indicating an underestimated disease burden and increased community infection. The TB treatment success rate was below the 90% target, highlighting the need for community support. The study recommends further research to address low case notifications.

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