

Peer Review Report

Review Report on Incidence and Risk Factors of Tuberculosis among Children Receiving Antiretroviral Therapy in

Original Article, Int. J. Public Health

Reviewer: Rufin Kouassi ASSARE

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EVALUATION

Q 1 Please summarize the main findings of the study.

This paper describes the findings of a retrospective study carried out in Northwest Ethiopia to determine the incidence of Tuberculosis in children on ART and its associated risk factors. The results revealed that the incidence density of TB was 3.37 cases per 100 person years and the main predictors were a history of contact with active TB cases, missed isoniazid preventive therapy, and advanced stages of WHO clinical stage of AIDS, poor drug adherence, and incomplete vaccination status.

Q 2 Please highlight the limitations and strengths.

This study has a hospital-based retrospective design. Hence, some relevant predictors are not considered in the analysis.

Q 3 Please provide your detailed review report to the authors. The editors prefer to receive your review structured in major and minor comments. Please consider in your review the methods (statistical methods valid and correctly applied (e.g. sample size, choice of test), is the study replicable based on the method description?), results, data interpretation and references. If there are any objective errors, or if the conclusions are not supported, you should detail your concerns.

Title: Incidence and Risk Factors of Tuberculosis among Children Receiving Antiretroviral Therapy in northwest Ethiopia

Comments

This paper describes the findings of a retrospective study carried out in Northwest Ethiopia to determine the incidence of Tuberculosis in children on ART and its associated risk factors. The results revealed that the incidence density of TB was 3.37 cases per 100 person years and the main predictors were a history of contact with active TB cases, missed isoniazid preventive therapy, and advanced stages of WHO clinical stage of AIDS, poor drug adherence, and incomplete vaccination status.

Some changes are needed:

- 1) In the manuscript *Mycobacterium tubercule* and *Mycobacterium* should be in italic.
- 2) "Disease" should be "disease". Please, see line 30.
- 3) Font sizes of words from lines 29 to 52 are not the same like the remaining parts of the manuscript.
- 4) Incidence of tuberculosis should refer to "Refers to the diagnosis of new cases tuberculosis from children on ART using bacteriologic examination (Smear Microscopy, TB Culture, and Xpert MTB/RIF Assay), imaging techniques (Chest X-ray), and histopathology or biochemical analysis of body parts/fluids".
- 5) "base line" should be "baseline". See line 159.
- 6) The correct title of reference 2 is Bayesian spatial survival analysis of duration to cure among new smear-positive pulmonary tuberculosis (PTB) patients in Iran, during 2011-2018.
- 7) References 4 and 5, journal names are missing.
- 8) Reference 11, Journal name, volume and pages are missing.
- 9) Reference 13, volume and page numbers are missing.
- 10) Reference 15, journal , volume, pages are missing.
- 11) Reference 18, duplicate title. The journal name, volume, pages are missing.

- 12) Reference 20, Retrospective Follow-Up Study is repeated. Publication year, journal, volume, pages are missing.
- 13) Do not abbreviate journal name. For example: Indian J Tuberc.
- 14) Correct title of reference 22 is TB and HIV epidemiology and collaborative service: evidence from Ethiopia, 2011–2015.
- 15) Reference 28, author name is WHO.
- 16) Correct title of reference 32 is Incidence and predictors of tuberculosis among HIV positive children at University of Gondar Referral Hospital, northwest Ethiopia: a retrospective follow-up study.
- 17) Please do not abbreviate journal name of reference 34.
- 18) Second line of table 1, 2, 3 are not correct.
- 19) First and second line of table 4 are not correct.
- 20) Font color of Figure 1, 2, 3 is not appropriate.

PLEASE COMMENT

Q 4 Is the title appropriate, concise, attractive?

The title is appropriate, concise, attractive.

Q 5 Are the keywords appropriate?

The keywords are appropriate.

Q 6 Is the English language of sufficient quality?

English language is sufficient quality.

Q 7 Is the quality of the figures and tables satisfactory?

No.

Q 8 Does the reference list cover the relevant literature adequately and in an unbiased manner?)

The reference list covers the relevant literature adequately and in an unbiased manner.

QUALITY ASSESSMENT

Q 9 Originality



Q 10 Rigor



Q 11 Significance to the field



Q 12 Interest to a general audience



Q 13 Quality of the writing



Q 14 Overall scientific quality of the study



REVISION LEVEL

Q 15 Please make a recommendation based on your comments:

Minor revisions.

