Reviewer’s report

Title: The effect of an educational intervention to improve tuberculosis infection control among nurses in Ibadan, south-west Nigeria: a quasi-experimental study

Version: 0 Date: 25 Oct 2019

Reviewer: Esther M Johnstone

Reviewer's report:

NURS-D-19-00303 -The effect of an educational intervention to improve tuberculosis infection control among nurses in Ibadan, South-West Nigeria: A quasi-experimental study: A Manuscript Draft

October 25, 2019

This is a well written, level III, quasi-experimental, quantitative descriptive research study. The purpose of the study is to improve tuberculosis infection control (TBIC) related practices and knowledge of nurses in Nigeria. This was a mixed approach which utilized an educational intervention along with a questionnaire. Both of these methods related to TBIC practices & knowledge. The facilities in Nigeria found that they had inadequate implementation of cost-effective TBIC measures at most of their health care facilities.

The study population was purposive sampling of nurses who work with TB patients. The research setting included two secondary health facilities in Ibadan, South-West Nigeria. This study consisted of two groups - one intervention group of 100 nurse participants and one comparison group of 100 nurse participants. Statistical methods included - independent t-test, Cohen's d = 1.7. SPSS statistics version 24 was used. The researcher used a variety of educational interventions that included - 3 hour training sessions (x 5 sessions) for groups of nurses (18-25 at each session), used powerpoint presentations as developed by the WHO & CDC on TBIC, presented a 14 minute video (developed by the CDC), covered hand hygiene, provided printed copies of the lecture (PPT presentation) to each participant, displayed CDC designed educational materials (signs, posters, & stickers on TBIC workplace practices) at the health care facilities after each training, and adjustments were made in order to accommodate all the nurses so each one could be trained. In addition, the participants completed a self-administered questionnaire related to TBIC practices & knowledge.

Results of this study demonstrates that training has been shown to be effective in improving knowledge & work practices of nurses

Conclusion of this study the improvement in post-intervention scores indicates that the mixed approach (multiple educational interventions & questionnaire) was effective in improving TBIC among the nurses.

Reviewing the Appendix 1 - Study Questionnaire
Question #4:
1. What is your professional rank? (Circle only one.)
   a) Nursing Officer - This reviewer does not know what the qualifications or educational level of a nursing officer? Please clarify
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This reviewer accepts this manuscript after my question has been answered. Thank you!

Dr. Johnstone

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

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