



SDI Review Form 1.6

PART 1:

Journal Name:	International Journal of TROPICAL DISEASE & Health
Manuscript Number:	MS: 2012/IJTDH/2110
Title of the Manuscript:	Evaluation of field performance of insecticide-treated mosquito nets in north-western Burkina Faso

General guideline: Reviewers are requested to follow these guidelines during review: *(Note: Title of different sections as proposed below may differ in case of review paper / case reports)*

- Introduction (Is the problem/objective of this study original, important and well defined?)

The objective of this study is not original to the international community but it may be of importance to the malaria control programme of Burkina Faso. Furthermore in the Introduction section, the authors make the assertion that the impact of pyrethroid resistance is not well understood. The following two references contradict this statement:

Abilio AP, Kleinschmidt I, Rehman AM, Cuamba N, Ramdeen V, Mthembu DS, Coetzer S, Maharaj R, Wilding CS, Steven A, Coleman M, Hemingway J, Coleman M. 2011. The emergence of insecticide resistance in central Mozambique and potential threat to the successful indoor residual spraying malaria control programme. Malar J. 2(10):110.

Marcombe S, Darriet F, Tolosa M, Agnew P, Duchon S, Etienne M, Yp Tcha MM, Chandre F, Corbel V, Yébakima A. 2011. Pyrethroid resistance reduces the efficacy of space sprays for dengue control on the island of Martinique (Caribbean). PLoS Negl Trop Dis. 5(6):e1202.

- Materials & methods (Kindly comment on the suitability of the methods. Sufficient details of the methods should be provided to allow peers to evaluate and/or replicate the work)

The methodology section lacks detail but the authors' direct attention to a previous study where the methodology is discussed. It would be useful for the authors to include a summary of the key techniques and protocols that were used for the study.

- Results & discussion (Kindly comment on: 1. Are the data well controlled and robust? 2. Authors should provide relevant references during discussion. 3. Discussion and conclusions should be based on actual facts and figures. Biased claims should be pointed out. 4. Are statistical analyses must for this paper? If yes, have sufficient and appropriate statistical analyses been carried out?)

The data is described in a single table where simple statistics was applied. It was stated that statistical analysis was done but there is no evidence of this. It would strengthen the study to compare all the variables by sub-area. This would highlight where the main problems are. Also, the data for Deltamethrin



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content in Table 1 is nonsensical. The conditions under which the nets were use has not been described so the reader is left wondering what “real life conditions” mean.

- Conclusion (Is the conclusion supported by the data, discussed inside the manuscript? Conclusions should not be biased and should be based on the data, presented inside the manuscript only)
- Are all the references cited relevant, adequate? Are there any other suitable current references authors need to cite?
- This form has total 9 parts. Kindly note that you should use all the parts of this review form.

The conclusion does not follow WHO guidelines for insecticide susceptibility. WHO recommends that an insecticide be discontinued if efficacy is less than 80%. Only the area where no cotton is grown meets this cut-off threshold.



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PART 2: Review Comments

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part and write here 'Corrected'/ if not agreed, give suitable justifications)</i>
<u>COMPULSORY REVISION</u> comments	All the weaknesses highlighted above need to be taken into account and adequate changes made before this manuscript can be published.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	The manuscript is generally well written.	

Reviewer Details:

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