

## Review Form 1.7

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_95623
Title of the Manuscript:	ESTIMATION OF HIV PREVALENCE AMONG WOMEN IN KENYA IN THE PRESENCE OF MEDIATION USING LATENT TRAIT ANALYSIS
Type of the Article	Original Research Article

### General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajpas.com/index.php/AJPAS/editorial-policy> )

### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments  1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)  2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)  3. <b>Is the abstract of the article comprehensive?</b>  4. <b>Are subsections and structure of the manuscript appropriate?</b>  5. <b>Do you think the manuscript is scientifically correct?</b>  6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b> <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b>	1. In this research, are presented methods for developing and fitting of the model to KAIS data. The aim is to establish the strength of the association between the categorical covariate(s) and the binary response through latent continuous mediator variable(s) using the structural equation modeling. To explain why an independent variable (education level) affects the outcome HIV(status) the sexual behavior patterns (intermediate variable) is used. It's an important and actual problem. 2. I think that the title is a bit longer. An alternative title can be: "ESTIMATION OF HIV PREVALENCE AMONG WOMEN IN KENYA USING LATENT TRAIT ANALYSIS" 3. The abstract is Ok.  4. The general structure of the manuscript. But, the Figure 3: output diagram, is not in the right place.  5. For my opinion, this manuscript is scientifically correct.  6. More recent references could be used.	
<b>Minor</b> REVISION comments 1. <b>Is language/English quality of the article suitable for scholarly communications?</b>		
<b>Optional/General</b> comments		

### PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

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