

Review Form 1.7

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_101118
Title of the Manuscript:	Modeling the Effect of Mediation on HIV Prevalence in Kenya using a Logistic Regression Model
Type of the 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.journaljamcs.com/index.php/JAMCS/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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ol style="list-style-type: none"> Research of mathematics modelling is important, especially about the diasese that can't be cured like HIV/AIDS. This paper gives the mathematical proof using binary logistic regression, that the addition of mediation factor (which is the HIV test) gives the positive correlation compared to the non-mediation factor models. Yes, the title represent the content of this article Yes,, the abstract is good The summary section should represent the result without mention the table of the other subsection Yes 8 of 14 references are outdated (more than 10 years) Author can access the recent data on WHO website and check if there are some update https://www.who.int/data/gho/data/themes/hiv-aids 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>The English should be checked, for example, in the part "This will help the country rightly channel resources to interventions that have great impact on HIV prevention".... "γ represents the relationship between the mediator variable and outcome variable conditional to the effect of the exposure variable and the error term" Etc.</p>	
<p>Optional/General comments</p>	<p>Table 5 should be checked, since there are 2 parts of KENPHIA without Mediation</p>	

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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