

Review Form 1.7

Journal Name:	Journal of Advances in Mathematics and Computer Science
Title of the Manuscript:	Simulating Allergic Rhinitis infections in Adults with HIV-AIDS using Runge-Kutta Fourth Order Method in SIR Model
Type of the Article	Review Article

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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Yes, this manuscript may be of interest to the scientific community. However, first it is necessary to find out what is the object and subject of research in it. If the purpose of the study was to review the methods of numerical solution of systems of ordinary differential equations describing the dynamics of epidemics according to the SIR model, then only two such methods were considered. These are the Euler and Runge-Kutt methods. Such a comparison looks strange, because in fact, Euler's method is the simplest version of the Runge-Kutta method, and it makes no sense to compare them. It is unlikely, but it is possible to compare the Runge-Kutt method with the Adams-Milnor, Bashforth, Hemming methods. But it is not clear why, because although the SIR model is nonlinear, the Runge-Kutta method copes well with the numerical solution and has long been used by various mathematical packages.</p> <p>More interesting is the detection of the fact of the development of a concomitant disease against the background of another. This would indeed be an interesting result that would demonstrate the power of mathematical modeling methods, especially if real data were presented. But then there would have to be another mathematical model, which synchronously describes the dynamics of both one and another disease.</p> <ol style="list-style-type: none"> The title of the article is suitable, but does not reveal the essence of the article. The abstract of the article is comprehensive. Subsections and structure of the manuscript appropriate. The manuscript is not completely scientifically correct. the references are sufficient and recent. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	English quality of the article suitable for scholarly communications	
<p>Optional/General comments</p>		

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PART 2:

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

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