

**Review Form 3**

Journal Name:	<b>Journal of Advances in Mathematics and Computer Science</b>
Manuscript Number:	<b>Ms_JAMCS_123606</b>
Title of the Manuscript:	<b>Prey-Predator Model On The Interaction Of Pathogenic Bacteria And Bacteriophages In The Presence Of Medication</b>
Type of the Article	

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The paper is good as it makes a good application of dynamical systems to predator-prey situations. The paper describes the real problem and how the author(s) wanted to solve it. The paper also shows all the sections and the mathematical explanations as required. A few aspects need to be revised.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is suitable	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is good as it describes the problem, it also describes how the problem is solved and also shows the main findings. Author(s) should find an appropriate name for the threshold values of $\frac{\beta - \sigma}{\left(\frac{2\theta\theta_3}{k} - \mu\theta_1\right)}$ which usually appears in disease modelling as the basic reproduction number.	
Are subsections and structure of the manuscript appropriate?	The subsections are appropriate. The authors should analyse the steady states at time goes to infinity or the global stability of the steady states. These subsections should be included.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The paper is scientific as it is written in the correct format, it describes an important problem. It also makes an application of mathematical theory normally used for non-linear first order differential equations in disease modelling. The paper makes significant results with an interesting threshold value normally equivalent to the basic reproduction number, this on its own is novel. Authors should find an appropriate name for it, also they should try and calculate it from the method of the second general matrix from the paper of James Whatmough.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	The references are sufficient and are also within the last 10 years There is an over referencing of the author Otanga, if this is self-citing, it should be removed, and more references included. If the references are not self-citing, they can be kept, it would be better to remove some.	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The English language can be attended to using tools such as Grammarly. There are no glaring English issues. The article is suitable for scholarly communication,</p> <p>Author(s) should attend to the following;</p> <ul style="list-style-type: none"> <li>(a) Include global stability of the steady states,</li> <li>(b) Find an appropriate name for the threshold value ,</li> <li>(c) The graphical representations are too few, one is not enough you can include more just to show what happens when you tweak some parameters,</li> <li>(d) The reason why it was difficult to show that other two eigenvalues of 3.3 in 3.4 was that you did not attempt to write the eigenvalues in terms of the threshold value. If this is done it would be easy to show as the eigenvalue only becomes negative when the threshold value is less than 1. Use the method of James Whatmough to find this threshold value and use it to show negativity of eigenvalues.</li> </ul>	
<p><b><u>Optional/General</u></b> comments</p>		

**PART 2:**

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

**Reviewer Details:**

<p>Name:</p>	<p><b>Gilbert Makanda</b></p>
<p>Department, University &amp; Country</p>	<p><b>Central University of Technology, United Kingdom</b></p>