

**Review Form 3**

Journal Name:	<a href="#">Journal of Advances in Mathematics and Computer Science</a>
Manuscript Number:	<b>Ms_JAMCS_126702</b>
Title of the Manuscript:	<b>Deterministic and Stochastic Nonlinear Schistosomiasis Model with Delay and Vaccination</b>
Type of the Article	<b>Original Research Article</b>

### Review Form 3

#### **PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> ( <i>Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i> )
<b>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.</b>		
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>		
<b>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.</b>		
<b>Are subsections and structure of the manuscript appropriate?</b>		
<b>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.</b>		
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :		

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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><b>Optional/General</b> comments</p>	<p><b>General Comment</b>                  This study "Deterministic and Stochastic Nonlinear Schistosomiasis Model with Delay and Vaccination." presents a comprehensive analysis of a mathematical model aimed at understanding the dynamics of Schistosomiasis, incorporating both deterministic and stochastic approaches. The inclusion of delays and vaccination strategies adds complexity and relevance to the model, addressing significant public health concerns associated with this neglected tropical disease. I found that the methodology used in this study is appropriate and most of the parameters that are responsible for the disease transmission are considered, but key findings which are displayed in the simulation diagram must be stated and explained. The implications of the research, as well as its contributions to the field of epidemic modeling are well articulated.</p> <p><b>Specific comments</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Avoid usage of italics for the whole paragraph in the manuscript.</li> <li><input type="checkbox"/> Don't use color on citations (avoid colored citation)</li> <li><input type="checkbox"/> Use citations properly, example In 2.1 write (Goa et al. 2011)</li> <li><input type="checkbox"/> On page 4, the number of miracidia and cercaria is given and stated that it is Lebesgue integrable function. So prove it or put a reference for its integrability.</li> <li><input type="checkbox"/> Give numbers for sub topics such as                      2.3 Existence of Uniqueness of Solutions                      2.4 Disease-free Equilibrium (DFE )                      2.5 Basic reproduction number                      2.6 Endemic Equilibrium point</li> <li><input type="checkbox"/> Write Lemma 2.6 after the proof of theorem 2.5</li> <li><input type="checkbox"/> The results depicted in the simulation diagram for deterministic and stochastic model should be explained and compared with empirical data.</li> <li><input type="checkbox"/> Mention the software used in the simulation and submit the code used for simulation purpose.</li> <li><input type="checkbox"/> Use standard reference systems like APA.</li> </ul>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (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>
<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:**

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