

**Review Form 1.7**

Journal Name:	South Asian Journal of Parasitology
Manuscript Number:	Ms_SAJP_119009
Title of the Manuscript:	MATHEMATICAL MODELING AND ANALYSIS OF TRANSMISSION DYNAMICS AND CONTROL OF HOOKWORMS IN OBI LOCAL GOVERNMENT AREA OF NASARAWA STATE, NIGERIA
Type of the 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><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li><b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li><b>Is the abstract of the article comprehensive?</b></li> <li><b>Are subsections and structure of the manuscript appropriate?</b></li> <li><b>Do you think the manuscript is scientifically correct?</b></li> <li><b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> <li>Hookworm infection is a common parasitic infection in sub-Saharan Africa. The prevalence of hookworm infection is influenced by different determinant factors. The study aimed to determine the prevalence of hookworm infection and determinant factors among school age children in any country/region plays a vital role in curbing the transmission of this disease. Therefore, such manuscript contributes significantly to advancing knowledge in both infectious diseases and guiding clinical practice and public health policies.</li> <li>The title of the article is suitable</li> <li>The abstract of the article is not comprehensive, needs to be restructured so that can tell what mathematical results were achieved and what burden/problem were curbed.</li> <li>Subsections and structure of the manuscript are appropriate.</li> <li>The manuscript is biologically correct and meaningful but it needs some improvements via reading some references herein, and will be scientifically robust, technically sound and recent if also these reference are taken into consideration as part of the references.             <ol style="list-style-type: none"> <li>Ndendya, J. Z., Mlay, G., &amp; Rwezaura, H. (2024). Mathematical modelling of COVID-19 transmission with optimal control and cost-effectiveness analysis. <i>Computer Methods and Programs in Biomedicine Update</i>, 100155. <a href="https://doi.org/10.1016/j.cmpbup.2024.100155">https://doi.org/10.1016/j.cmpbup.2024.100155</a></li> <li>Oswald, S., Liana, Y., Mlay, G., &amp; Kidima, W. B. (2024). Modelling Optimal Control of Bovine Tuberculosis Transmission Dynamics with Associated Costs Public Health Education Campaign, Treatment and Vaccination Cost Effective? <a href="https://dx.doi.org/10.2139/ssrn.4688591">https://dx.doi.org/10.2139/ssrn.4688591</a></li> <li>Ndendya, J. Z., Leandry, L., &amp; Kipingu, A. M. (2023). A next-generation matrix approach using Routh–Hurwitz criterion and quadratic Lyapunov function for modeling animal rabies with infective immigrants. <i>Healthcare Analytics</i>, 4, 100260. <a href="https://doi.org/10.1016/j.health.2023.100260">https://doi.org/10.1016/j.health.2023.100260</a></li> <li>Ndendya, J. Z., &amp; Liana, Y. A. (2024). Mathematical Model and Analysis of Pneumonia on Children Under Five Years with Malnutrition. <a href="https://dx.doi.org/10.2139/ssrn.4692559">https://dx.doi.org/10.2139/ssrn.4692559</a></li> </ol> </li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>The Language employed in this manuscript meets the standard quality expected for scholarly communications.</p>	
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<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>
<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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