Review Form 1.7

Journal Name:	**Asian Research Journal of Mathematics**
Manuscript Number:	**Ms_ARJOM_110044**
Title of the Manuscript:	**The impact of predator-dependent prey refuge on the dynamics of a Leslie-Gower predator-prey model**
Type of the Article	**Original Research Article**

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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)*
Compulsory REVISION comments **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	This manuscript title: '' The impact of predator-dependent prey refuge on the dynamics of a Leslie-Gower predator-prey model''. The objective is to understand the **impact of predator-dependent prey refuge** . The following comments appeared to me. 1. Check the grammars and typos errors of our paper 2. The abstract is long and unfocused, as the abstract must focus on the central problem under study, the objective of the study, the methods used in it, and the most important results. While the details of the model and others should be transferred to the body of the research. 3. The model is inaccurate. Because the study focuses on the dynamical system within time, please carefully review why you have written (dx/dy) in place of (dx/dt) in the first equation for both the extant model (equation 1.4) and the original model (equation 1.3). 4. The assumptions of predator-prey interaction, as well as the parameters and state variable specification (e.g., r_1, r_2, a_1, a_2, b_1, x, y) are not defined in our model equation (1.4). 5. From the boundedness and positivity section where is epsilon in the second equation of the model equation (1.4) please see again and referee the other articles 6. The only equilibrium points that are discussed in the existence and stability of equilibrium section are the boundary and positive equilibrium, although lemma (2.2) states that the origin is unstable and makes plain how many equilibrium points there are in the system (1.4). 7. The second-degree polynomial of point (2.6) in section (2.2) has either two positive roots or two negative roots due to the positivity of the coefficients. So the positive equilibrium point E^* is not unique then put the conditions. 8. The proof of lemma(2.2) When u = 0, system (2.9) admits two boundary equilibrium $E^0(0,0)$ and E^1. But is that E^0 is boundary equilibrium point. 9. What about the global stability of other points? 10. Is your system has bifurcations near their equilibrium points or not? Why nothing exists about the bifurcation? 11. How can you use the parameter values in our numerical simulation section if you have a look at other works and include the reference?. 12. The numerical simulation part is limited. 13. Check reference [18] cited in the body of the paper	

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Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**		
Optional/General comments		

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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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