Review Form 1.6

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	**Ms_ARJOM_90620**
Title of the Manuscript:	**An intrinsic analysis of human brucellosis dynamics in Africa**
Type of the Article	**Original Research Article**

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(https://www.journalarjom.com/index.php/ARJOM/editorial-policy)

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	**In this work, the authors conducted an intrinsic analysis of human brucellosis dynamics in non-periodic and periodic environments. They proposed and studied two mathematical models for human brucellosis transmission and control, in which humans acquire infection from cattle and wildlife.** **Although the manuscript is well written and the results seem correct, there are some major comments which must be taken into account before its acceptance for publication.** **1- Model formulation:** **1.1-The authors must justify why they consider mass action law in place of the other types of incidence functions.** **1.2- The authors must justify why they don't take into account latent stages in their model. Indeed, when susceptible individuals contract the pathogen of the disease, several days are necessary to become infectious.** **2- Optimal control: The authors consider quadratic costs, which do not have a biological meaning. The following paper can help to answer this comment:** **https://www.sciencedirect.com/science/article/pii/S0960077921005518?casa_token=HIZm7aoKAfQAAAAA:-bXIS59uEx3kvzH8uHxXROZW4NfqX58t-5PtjT6TabBXEJHc2obsKeNbBMr0rJtPLfHPIFPljN89IQ**	
Minor REVISION comments	There are several typos in the manuscript. For example on pages 21-22, you wrote "the objective functions" in place of "the objective function".	
Optional/General comments	The manuscript must be re-evaluated to verify that the authors have taken into account the above comments and suggestions	

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)*	

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Reviewer Details:

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