

Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_94692
Title of the Manuscript:	MATHEMATICAL MODELLING ON IMPACT OF INTERVENTIONS IN THE SPREAD OF COVID-19 IN KENYA
Type of the 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.journaljamcs.com/index.php/JAMCS/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	The introduction provides an overview of the history of occurrence, geography of distribution and transmission of COVID-19, as well as a small overview of scientific results on mathematical modeling. A system of equations (SDE) is proposed to describe the spread of COVID-19. A model of the SEIRD type was used, in which the infected class is further classified as asymptomatic and symptomatic classes. The relapse-free and endemic equilibrium points of the model were obtained and the conditions for their stability were established. The reproduction number R_0 for the model is constructed and it is determined that the equilibrium points are stable if $R_0 < 1$. Numerical experiments are carried out and the results are plotted.	
Minor REVISION comments	It is necessary to expand the review of scientific results and introduce the section "Preliminary results".	
Optional/General comments	The following articles are recommended to the author: 1. Tchoumi, S.Y.; Rwezaura, H.; Diagne, M.L.; González-Parra, G.; Tchuenche, J. Impact of Infective Immigrants on COVID-19 Dynamics. <i>Math. Comput. Appl.</i> 2022 , <i>27</i> , 11. https://doi.org/10.3390/mca27010011 . 2. Pauline van den Driessche. Reproduction numbers of infectious disease models. <i>Infectious Disease Modelling</i> , <i>2</i> (2017), 288-303.	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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