



**SDI Review Form 1.6**

Journal Name:	<a href="#">Asian Research Journal of Mathematics</a>
Manuscript Number:	Ms_ARJOM_43944
Title of the Manuscript:	A SPATIOTEMPORAL MODEL ON THE TRANSMISSION DYNAMICS OF ZIKA VIRUS DISEASE
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**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)
<b>Compulsory</b> REVISION comments	<p>In general everything works okay, nevertheless there are details that should be take care of in order to improve this work. Here they are,</p> <ul style="list-style-type: none"> <li>I think the Abstract is too long, it should be reduced at least to a half of what is now, actually many things mentioned here are said, again, in the Introduction. Even more, the expressions DFE and EE are not specified in this Abstract, is in pages 7 and 8, respectively, where are defined and used.</li> <li>MSC is missing.</li> <li>In proof of Lemma 3.1, author(s) should explain what are the sets forming X.</li> <li>In proof of Theorem 3.3, and before formula (3.22), the expression for <math>\det(A)</math> determines immediately sign of eigenvalues from sign of <math>1-R_0</math> and there is no need to use formula (3.22).</li> </ul>	<p>-The abstract was reduced as suggested by the reviewers. The DFE and the EE are defined.</p> <p>-The set X in Lemma 3.1 contains the region <math>\psi</math> which is the region within which the state variables of both Human and Vector components are defined.</p> <p>-The formula (3.22), is the expression for <math>R_0</math> which is further used in proving the sensitivity analysis section. I have shifted just before Theorem 3.3.</p>
<b>Minor</b> REVISION comments	Model is well established; all considerations and assumptions are okay. Boundary and initial conditions are very natural, so they make sense. Very important comment given at the end of page 6.	
<b>Optional/General</b> comments	It is a well written and ordered manuscript. References are appropriate and up dated.	