



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2013_BJMCS_7883
Title of the Manuscript:	Vaccination Dynamics of Chickenpox in Agona West Municipality, Ghana
Type of the Article	Biomathematics - Differential Equations

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>)



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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	The manuscript has been estimated the reproductive number of chickenpox with vaccination to be $R = 0.3 < 1$ which shows that after vaccination, the disease will die out. The stability analysis of disease free and endemic equilibrium point of chickenpox transmission with vaccination was estimated to be unstable and asymptotically stable. Sensitivity analysis of the SEIR model with vaccination showed that when the vaccination rate coefficient is increase chickenpox will be under control.	corrected
Minor REVISION comments	We ask for some repairs and to respond to some questions: 1- Page 3 – line 3 – the reference [?]. Page 5 – lines 3 and 4 – it must $J - \lambda I$ or written as $\det(J - \lambda I)$. 2- where are the intial points for the endemic equilibrium points of chickenpox with vaccination ? 3- what is the mathematical method used to solve the model differential equations 1,2,3,3 ? 4- Figures 1,2,3,4 must be corrected and the indicators for both figures must be clear.	correction 1 has been done we did not used initial points for the endemic equilibrium point We linearized the systems 4 and 5 corrections has been done



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	5- The references must be rearrangement again.	
<u>Optional/General</u> comments	The manuscript is important and useful in solving the problem of chickenpox in the Agona . It is optimal used by the chickenpox vaccination coefficient θ .	Thank you for your comment