



**SDI Review Form 1.6**

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| Journal Name:            | <b><u>British Journal of Mathematics &amp; Computer Science</u></b>    |
| Manuscript Number:       | <b>Ms_BJMCS_20180</b>                                                  |
| Title of the Manuscript: | <b>Analytical model for childhood pneumonia, a case study of Kenya</b> |
| Type of the Article      | <b>Original Research Paper</b>                                         |

**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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments | <p>The manuscript has multiple typographic errors (at least in the pdf version sent) which makes it difficult to read. Furthermore, the literature review section is not easy to follow; in such section, review of the literature which comprises all ages is done but then authors divide the study population in children less than 5 years old.</p> <p>In the model description section, it is not clear what are the criteria authors used to divide the different study populations in seven subclasses, introducing a bias in the analysis. For example, how do authors differentiate between mild infected children or chronically infected children?</p> <p>The discussion section is too short and authors do not comment on their results according to results of similar papers.</p> | <ul style="list-style-type: none"> <li>➤ The literature review section was integrated in discussion and conclusion and more mathematical model on pneumonia added.</li> <li>➤ Previous to the best of our research ability there is no study targeting under-fives years old in Kenya which has been accounting to above 15% death annually.</li> <li>➤ One of the study in rural Kenya classified pneumonia into two categories severe pneumonia (Mild infected pneumonia in this study) and very severe pneumonia (Chronic infected pneumonia in this study). That research has been added to introduction.</li> <li>➤ The Kenya Health Information system(available online) keeps age structured data on pneumonia that is outpatient(Mild treated pneumonia in this study) and inpatient(Chronic treated pneumonia in this study), our research study envisages to use that data to compile publication two on numerical results.</li> </ul> |
| <b><u>Minor</u></b> REVISION comments      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b><u>Optional/General</u></b> comments    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |