

Review Form 1.7

Journal Name:	International Journal of TROPICAL DISEASE & Health
Manuscript Number:	Ms_IJTDH_99378
Title of the Manuscript:	Mathematical Models and societal impact of CoVID-19 Pandemic: a short review
Type of the Article	Review 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.journalijtdh.com/index.php/IJTDH/editorial-policy>)

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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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Yes</p> <p>2. Yes</p> <p>3. In abstract mentioned "We have also discussed how different mathematical models predicts the minimisation of the growth by predicting the minimum days of lockdown." But not see in the discussed mathematical model which formula used to calculate no of days of lockdown by using higher order polynomial and not see from where SEIR model can predict number of lockdowns.</p> <p>4. Yes</p> <p>5. Yes</p> <p>6. Not enough for a review paper</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Need proof read. For Eg what is " TH no", "no" please use full description as number.</p> <p>"To provide a mathematical nature, the data for all the countries were fitted and linearly and 4-degree polynomial", please change to "To provide a mathematical nature, the data for all the countries were fitted linearly using 4-degree polynomial"</p> <p>Can assumes</p> <p>Typo mistake of "cam"</p> <p>Doctor "consultancy" were ...</p> <p>Confuse sentence of "...those people did not have fixed monthly income cost of the people in India are not having fixed monthly income,"</p>	

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<p>Optional/General comments</p>	<p>Authors presented two mathematical models: Polynomial and SEIR models to model COVID19 and sosio-economy impart of COVID19. This paper can be improved by taking into consideration the above comment regarding abstract, language and the following concerns:</p> <p>Any research used exponential model or SEIR model to validate any COVID case in any country?</p> <p>Check equation for $N_i(t) = 1 + c_1(t) x + c_2(t) x^2 + \dots$ upto order 4 as there is no "I" on the equation, thus for each $I = 0, 1, 2, 3$, they have same $N_i(t)$ and $N(t) = 0$</p> <p>What is the source of SEIR model?</p> <p>What is the equation for boundary condition is SEIR model?</p> <p>What is [18d], [27d]?</p> <p>Format for author format citation should don't have []</p>	
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Comment [TKG1]: Then for each $I = 0, 1, 2, 3$, they have same $N_i(t)$ ad $N(t) = 1 + c_1(t)x + c_2(t)x^2 + c_3(t)x^3 + c_4(t)x^4$

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

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