|  |
| --- |
|  |
| Journal Name: | [Asian Journal of Pure and Applied Mathematics](https://www.jofmath.com/index.php/AJPAM) |
| Manuscript Number: | **Ms\_AJPAM\_1998** |
| Title of the Manuscript:  | **Mathematical Modelling Analysis of Cholera Epidemic in the Presence of the Disease Progression Dynamics and Intervention Strategies** |
| Type of the Article | **Original Research** |

|  |  |
| --- | --- |
|  | **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **It is a good manuscript, it is written in a well organized manner. It involves pathogen effect, campaign and awareness effect. It compares the effect of different effective and sensitive parameters on different compartment through graph that makes manuscript more effective.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **Yes, no need to add or delete any sentence in abstract.**  |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes manuscript fulfil the standard norms. Each section is well written in scientific manner.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **Yes, kindly include some references suggested here.**1. Soni, M., Sharma, R. K., & Sharma, S. (2024). Prevention Strategies to Control an Epidemic using a SEIQHRV Model. *The Pure and Applied Mathematics*, *31*(2), 131-158.
2. SONI, M., SHARMA, R. K., & SHARMA, S. (2024). FOMITE FACTORS AND SILENT SPREAD: A VSEIQCR STUDY OF VIRAL DISEASES. *Journal of Nonlinear Analysis and Optimization: Theory & Applications (JNAO)*, *15*(2), 1-21.
3. Soni, M., Sharma, R. K., & Sharma, S. (2021). The basic reproduction number and herd immunity for COVID-19 in India. *Indian Journal of Science and Technology*, *14*(35), 2773-2777.
 |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes** |  |
| **Optional/General** comments | I have reviewed this manuscript. I appreciate the author's research work. I suggested to accept this. Some suggestions should be admitted to improve the quality.1. References should be mentioned/cited in ascending order e.g. Rules are key factors in deducing the disease prevalence and safeguarding vulnerable individuals with intense collaboration with international bodies for the betterment of Africa [16,5] should be [5,16] and The backdrop has led to the point of introducing an essential technique involving structure expansion and investigations [15,11]. It should be [11,15] .
2. The susceptible population increases due to new birth, vaccine wanes and loss of immunity at the rate π, φ and Λ **respectively.**
3. Finally, the concentration of Vibrio cholera grows at a constant rate interacting with asymptomatic infected, symptomatic infected, hospitalized infected and treated compartment at a contact rate α , Full stop is missing at the end of the sentence.
4. Kindly include the suggested references.
5. Check the typological error in the whole manuscript.
 |  |

|  |
| --- |
| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer Details:**

**Mohit Soni, Govt. Holkar Science College Indore, India**