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| Journal Name: | [**Asian Research Journal of Mathematics**](https://journalarjom.com/index.php/ARJOM) |
| Manuscript Number: | **Ms\_ARJOM\_136291** |
| Title of the Manuscript: | **MATHEMATICAL MODEL OF CERVICAL CANCER INCORPORATING PROTECTION MEASURES AGAINST THE DISEASE** |
| Type of the Article |  |

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| **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.** | **This manuscript provides a significant contribution to the understanding of cervical cancer dynamics by presenting a mathematical model that incorporates protection measures. With cervical cancer being one of the leading causes of cancer-related deaths in women globally, especially in low-resource settings, this work offers valuable insights into how increased protection and preventive behaviors can influence disease transmission. The use of both local and global stability analysis, along with simulations, provides a strong theoretical foundation for public health interventions. The findings can support policymakers in designing**  **effective strategies for HPV-related cancer control.** | Okay |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** | Okay |
| **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** | Okay |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is scientifically sound.** | Okay |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The references are mostly appropriate and relevant, though a few are slightly outdated. Notably, only one reference is from 2023. Consider including more recent work (e.g., from 2022–2024) related to HPV modeling or global cancer burden to strengthen the discussion.** | The references are there. |
| **Is the language/English quality of the article suitable for scholarly communications?** | **The manuscript is generally understandable but needs considerable grammatical polishing for scholarly communication. Some sentences are overly long, awkwardly phrased, or contain typographical errors. For example:**   * **“Due to the high cost of treatment, protection against the infection may be preferable in scarce resource settings.” → “In resource-limited settings, protective measures may be more viable than treatment due to high costs.”** * **Consistent use of terms like “protection” and “prevention” should be ensured.** * **A thorough professional language edit is recommended before publication.** | Okay |
| **Optional/General** comments | **This manuscript presents a well-structured and scientifically rigorous mathematical model exploring the impact of protective measures on cervical cancer transmission. The authors demonstrate a clear understanding of epidemiological modeling and support their theoretical findings with appropriate simulations. The public health relevance of the study, especially for low-resource settings, is high. However, the manuscript would benefit from a professional language edit to improve clarity and grammatical accuracy. Additionally, incorporating a few more recent references would strengthen the scientific context.** | Okay |

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| **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 details)* | No |