

Review of: "Analysis of the Spread of Covid-19 via Atangana-Baleanu Fractional Derivatives"

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Potential competing interests: No potential competing interests to declare.

The paper integrates epidemiological modeling with fractional calculus, and it shows great promise for future impact. To appraise the breadth and rigor of the work, as well as the significance of the findings and their possible ramifications in the field of epidemiology, a comprehensive review of the paper would be required.

1. In comparison to conventional methodologies, the fractional modeling approach stands out more clearly.
2. Give a summary of the model formulation, including major variables, parameters, and assumptions.
3. Include brief details about the strategies used to prove the existence and uniqueness of solutions.
Describe the numerical scheme used and the scenarios/parameters tested in simulations.
4. Discuss the major discoveries, insights, or implications that emerge from the results.
5. Compare the performance and benefits of the fractional model to other standard or fractional epidemic models.
6. Furthermore, the abstract may benefit from a more balanced presentation that includes not just the theoretical and numerical components, but also the interpretation and practical application of the findings.

Addressing these concerns will help readers appreciate the work's uniqueness, rigor, and possible significance, as well as its contributions to the field of epidemiological modeling.