

Review of: "Misdiagnosis of Dengue Fever as Malaria and Typhoid Fever and Their Co-infection in Rural Areas of Southwest Nigeria"

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Potential competing interests: No potential competing interests to declare.

Review Report

Title: Misdiagnosis of Dengue Fever as Malaria and Typhoid Fever and Their Co-infection in Rural Areas of Southwest Nigeria

Misdiagnosis of dengue as malaria and typhoid fever can be a major source of public health concern in large areas of Nigeria, as dengue is not routinely screened for in health care settings and clinicians have to depend on empirical treatment which may compromise patients' health. As studies have reported a high prevalence of the dengue virus in areas of Nigeria, and dengue and malaria have similar symptoms, the same arthropod vector, and the same mode of transmission, coupled with differential diagnosis. Though typhoid fever differs from dengue and malaria by not having an arthropod vector and having a different mode of transmission, it shares a differential diagnosis with dengue and malaria, which makes misdiagnosis possible. The misdiagnosis of these three diseases has become a major concern towards therapeutic administration because of their co-occurrence in many cases and the same location.

The work is nice, and the findings are promising. I recommend the following modifications and changes to make the work worth considering:

There are several grammatical mistakes; I recommend revising the whole work for grammatical mistakes. I also recommend rephrasing poor sentences in the abstract of this work.

I recommend revising the significance of the work in the introduction section clearly. Check the introduction section more carefully for typos.

There are some punctuation errors in the model. I recommend carefully revising it and rephrasing poor sentences.

Improve the introduction section by including the following related work: [Dynamical behaviour and chaotic phenomena of HIV infection through fractional calculus](#) ,,, [Qualitative analysis of the transmission dynamics of dengue with the effect of memory, reinfection, and vaccination](#) ,,, [In vivo HIV dynamics, modeling the interaction of HIV and immune system via non-integer derivatives](#) ,,, [Mathematical modeling and stability analysis of the dynamics of monkeypox via fractional-calculus](#) ,,, [Fractional-calculus analysis of human immunodeficiency virus and CD4+ T-cells with control interventions](#)

The keywords are not accordingly, kindly revise it and make it more suitable.

How this work can help researchers to prevent the infections and improve public health.

Some sentences are poor, rewrite and make it more attractive. I recommend to extensively revise the paper and write in scientific form.

The tabulated results should be described in details and the findings of this work as well. How these are better than the existing work.

Include: Fractional perspective evaluation of chikungunya infection with saturated incidence functions,,, Dynamical analysis, infections in plants, and preventive policies utilizing the theory of fractional calculus,,, Coronavirus dynamics, infections and preventive interventions using fractional-calculus analysis,,, A robust study to conceptualize the interactions of CD4+ T-cells and human immunodeficiency virus via fractional-calculus

I suggest checking the conclusion section for poor sentences and writing your findings in the conclusion in a more comprehensive way. Also, improve the discussion of your paper.

I also recommend checking that all the references are cited in the work and are in a uniform style.

Remark: After the above changes and modifications, the work will be suitable for publication in the journal.