Reviewer's report

Title: 4Flu - an individual based simulation tool to study the effects of quadrivalent vaccination on seasonal influenza in Germany

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Reviewer: Daihai He

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Minor Essential Revisions:

A major concern is that it seems that the authors have ignored the cross-protection between two subtypes of influenza A, H1 and H3. An individual who has been infected by H1 (or H3), will he/she also be protected by H3 (or H1) for a while? Also, is there similar cross-protection across influenza A and influenza B? It seems to me that the authors have only emphasized the cross-immunity between two B lineages. I suggest that the authors should add some comments/tests on these points.

I noticed one minor typo in line 9 of the abstract “he” -> “the”.

Overall I think the author did a very comprehensive work to evaluate the benefit of using QIV instead of TIV. It is novel and interesting.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.