Reviewer's report

Title: Cost-effectiveness evaluation of quadrivalent influenza vaccines for seasonal influenza prevention: A dynamic modeling study of Canada and the United Kingdom

Version: 3 Date: 24 May 2015

Reviewer: Marcello Tirani

Reviewer's report:

- Major Compulsory Revisions:

  1. A better specification of the dynamic model used in the manuscript should be needed, providing more and clear information about it.

  2. A table with all the relevant input parameters used in the model (e.g., vaccine parameters, costs, QALYs, discount rate) should be added to the manuscript including upper and lower limits and distributions (see line 236 where it refers to the “univariate and multivariate analyses”).

  3. No information is provided about the values and the source of data for transition probabilities. Could the authors elaborate on this?

  4. There are discordant opinions on how and whether to use discounting health benefits in economic evaluations and in particular some authors believe that future benefits of preventive health programs should not be discounted. It would be more proper if the authors perform also a no discounting scenario, as suggesting by the literature, and/or a low discount scenario (e.g., 1.5% discount rate).

- Minor Essential Revisions:

  None.

- Discretionary Revisions:

  1. It could be possible to distinguish the overall QALY loss for medically-attended influenza case in: QALY loss for people requiring GP visit, QALY loss for those requiring ER visit and QALY loss for people needing hospitalization?

  2. The model does not seem to include any costs or utility decrements for vaccine adverse events. Although they probably not change the final result, it would be more advisable to add them.

Level of interest: An article whose findings are important to those with closely related research interests
Quality of written English: Acceptable

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.