Reviewer’s report

Title: Impact of HPV vaccination with Gardasil® in Switzerland

Version: 1 Date: 30 Oct 2017

Reviewer: Robert A. Bednarczyk

Reviewer's report:

This is a very nice manuscript describing a multi-focal approach to understanding the real-world effectiveness of HPV vaccination in a Swiss canton. There are a few areas in which this manuscript can be strengthened.

1. Abstract, Results - It appears that the 690 women who participated in the study are from the survey/self-collection sample, and not the general outpatient population study. If so, please clarify that this sample size is specific to that group, and also present the sample size of total observations for the outpatient sample.

2. Abstract (and generally throughout) - the use of vaccine-HPV genotypes is not very clear. Can you refer to this as "vaccine-type HPV genotypes"?

3. Abstract/conclusions - the use of "confirm" is a strong word. You describe a population-level decline in HR-HPV types, but do not provide context in the abstract (understandably, due to word limits) about the magnitude of this drop compared to the population-level vaccine coverage.

4. Background, line 70 - use "effectiveness" rather than "Efficiency"

5. Methods, line 123 - you indicate that Vaud is the third largest canton - can you provide a population size for comparison?

6. Methods, line 198 - you indicate a two-sided p-value, but do not give the alpha level.

7. Results - did you collect age at vaccination data on the survey? You provide information about age at sexual debut, but do not present any comparable data for age at vaccination. While the campaign indicates girls vaccinated at age 13, you do mention the possibility of catch-up vaccination. Having this comparison of the difference between age at vaccination and age at first sex could help understand some findings, such as those presented on line 332 indicating the 3 fully vaccinated women tested positive for HPV 16. You do not entertain the possibility of sexual activity prior to vaccination.

8. Supplemental Table 1b. Fix the column headers for the odds ratio/p-values to keep them properly separated.
Are the methods appropriate and well described?  
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?  
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?  
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?  
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English  
Please indicate the quality of language in the manuscript:

Acceptable

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