**Reviewer’s report**

**Title:** Impact of HPV vaccination: health gains in the Italian female population

**Version: 0 Date:** 30 Jan 2017

**Reviewer:** Giampiero Favato

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The research offers an original insight in the evaluation of effect of HPV vaccination on women's health in Italy. The main contributions are related to:

1. direct elicitation of utilities obtained by using a time trade-off (TTO) questionnaire on a sample of Italian women affected by HPV induced pathologies. This methodological choice strengthen the validity of then economic outcomes of the study. It is highly uncommon to find such a stringent methodological approach in the models published in the extant literature;

2. the valuation of DALY, YLL and YLD in addition to the usual measure of QALY, a choice which provide a more comprehensive range of assessment to the economic evaluation.

The paper could be improved by re-aligning the sections in a more conventional and user-friendly outline. More specifically:

1. The section of materials and methods should include the following sub-headings:
   a. Model structure
   b. Choice of inputs (including the paragraphs titled: epidemiological data; estimates of effectiveness in vaccination strategies; impact measures)
   c. Choice of outcomes (including the paragraph titled: burden of disease index)

2. The section titled results should be streamlined and re-written to improve clarity, making the impact of vaccination v. non-vaccination more explicit;

3. the paragraph on page 13 starting with "This assumption is clearly an approximation of the reality..." should be moved to the "Limitations" section.

4. Conclusions should be limited to 3-4 "punch-line" paragraphs.
The recommended editing of the manuscript would improve its readability, highlighting at the same time the important insights stemming from this original research.

**Level of interest**
Please indicate how interesting you found the manuscript:

An article of importance in its field

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

Acceptable

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