Reviewer's report

Title: New expectations in the prevention of pneumococcal diseases

Version: 3 Date: 5 July 2012

Reviewer: Massimiliano Don

Reviewer's report:

The paper by Weil-Olivier et al. is a complete review on the known topic of pneumococcal vaccination and its implications on invasive- (IPD) and non-invasive pneumococcal diseases, in particular community-acquired pneumonia and pleural empyema on one side and acute otitis media (AOM) on the other side. Important topics have been discussed by the Authors. As for IPD, in more parts of the text it has been clearly stated how, after the introduction of PCV7, the circulation of non-PCV7 vaccine pneumococcal serotypes and the incidence of infections due to such serotypes increased in countries with routine vaccination. Moreover, the Authors underlined the potential of higher valency vaccinations to decrease the burden by non-PCV7 serotypes. The implications on non-invasive pneumococcal diseases such as AOM are discussed exhaustively, too. The paper is clearly written and easy to follow; its Abstract, size, references and English language are proper.

MINOR ESSENTIAL REVISIONS

- Page 2, Discussion paragraph, line 7: “…occurrence of pneumonia…” --> “…occurrence of complicated and not complicated pneumonia…”;
- Page 7, last but one line: “…as the as the…” --> “…as the…”;
- Page 8, line 11: “(Farha et al, 2005)” --> to be adapted to the other references;
- Page 11, line 5: “…19A; accounting…” --> “…19A accounting…”;
- Page 14, line 15: “The PCV used included…” --> “The used PCV included…”;
- Page 15, last but two line: “…vaccines. Most…” --> “…vaccines. Most…”;
- Page 16, line 3: “…US, The vaccine…” --> “…US, the vaccine…”;
- Page 16, line last but six: “…52.4%for…” --> “…52.4% for…”;
- Page 17, line 3: “…to 60 000 to 70 000…” --> please clarify;
- Page 28, Table 2: the present reviewer though the introduction data of PCV7 in Italy was prior to 2006 (look at reference 29, at page 10); please, check again all data in Table 2.
- Page 30, Table 4: please, correct Title that overlaps the first line of the Table
itself.

**Level of interest:** An article of importance in its field

**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.