Reviewer’s report

Title: A National Cross-sectional Study for Poliovirus Seroprevalence in the Republic of Korea in 2012: Deficiency in Immunity to Polio among Middle-aged People

Version: 2
Date: 10 January 2015

Reviewer: Sang-Won Lee

Reviewer’s report:

- Minor Essential Revisions

1. Detailed information about the two different vaccines, OPV and IPV against poliovirus including what kind of antigens and vaccination schedules in Republic of Korea should be provided in the introduction section.

2. The colour scheme used for the figure 2 should be revised. Especially it is hard to distinguish between high and no groups.

- Discretionary Revisions

1. The authors found relatively low level of seropositive against poliovirus in middle-aged group compared to other age groups. Is there any difference in clinical symptom or susceptibility of poliovirus between different age groups? Please provide detailed information about clinical symptom or susceptibility of poliovirus between different age groups in the discussion section.

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

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