Reviewer's report

Title: Deficiency in immunity to poliovirus type 3: A lurking danger?

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Reviewer: Maren Eggers

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General comments:
In this manuscript, the authors describe differences in neutralising titres against polio virus type 1, 2 and 3 found in 1,632 human sera. The results indicate that in the period from 2001 to 2010 the immunity to PV3 is decreasing. Interestingly, an age-related drop in immunity could be found. The lowest neutralizing antibody titres were detected in the age group of 15 to 29 years.
In general, the study was carefully designed and performed, the presentation is clear.

Specific comments:
The authors should include a possible explanation of this phenomenon. Is it due to the IPV vaccination? How could the immunity against PV3 be improved
What about the age group of <10 years?

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests.