Reviewer's report

Title: The 7-valent pneumococcal conjugate vaccine elicits cross-functional opsonophagocytic killing responses to Streptococcus pneumoniae serotype 6D in children

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Reviewer: Andrés de Roux

Reviewer's report:

The study by Lee and colls is a well conducted study addressing the important issue of cross protectively of the 7 valent pneumococcal conjugate vaccine against serotype 6 B.

I suggest to accept the paper for publication with minor revisions.

Major comments:

• Are there any data about preexisting infections (e.g pneumococcal infections) in the studied groups? This may alter the OPA levels. Especially as there were differences in the mean ages of the groups (19 months, 14 m, 15 m) and therefore the older subjects had a higher probability of previous infections.

• There seems to be a marked difference in the prevalence of ST 6D in the Korea vs the US. The authors should discuss if there can be differences regarding susceptibility and genetic determined levels of vaccine response between this two different ethnic groups.

• I find the reverse cumulative distribution curves misleading (Figure 2) and hard to interpret. As a suggestion I would only display ST 6B and 6D and display them in only one panel.

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 have received lecture fees from Pfizer and have participated in advisory boards for Pfizer.