**Supplemental Digital Content 10:** Associations between enteropathogens and oral rotavirus vaccine immunogenicity after restricting the window of stool specimen collection to 14 days pre-vaccination[[1]](#footnote-1)**.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Individual**  **pathogen** | **Non seroconverter**  N=69 | **Seroconverter**  N=27 | **Risk ratio for seroconversion** | **Seronegative**  N=72 | **Seropositive**  N=35 | **Risk ratio for seropositivity** |
| **N** (%) | **N** (%) | **Unadjusted**  (95% CI) | **N** (%) | **N** (%) | **Unadjusted**  (95% CI) |
| Campylobacter spp. | 4 (5.8) | 3 (11.1) | 1.55  (0.60, 4.05) | 4 (5.6) | 3 (8.6) | 1.30  (0.51, 3.32) |
| aEPEC | 2 (2.9) | 3 (11.1) | 2.31  (0.98, 5.42) | 2 (2.8) | 3 (8.6) | 1.93  (0.83, 4.48) |
| EAEC | 14 (20.3) | 7 (25.9) | 1.29  (0.65, 2.57) | 16 (22.2) | 7 (20.0) | 0.94  (0.47, 1.87) |
| Shigella | 2 (2.9) | 1 (3.7) | 1.27  (0.26, 6.27) | 2 (2.8) | 1 (2.9) | 1.07  (0.21, 5.28) |
| Adenovirus 40/41 | 3 (4.4) | 1 (3.7) | 0.85  (0.14, 5.11) | 4 (5.6) | 1 (2.9) | 0.58  (0.10, 3.55) |
| Norovirus | 4 (5.8) | 1 (3.7) | 0.70  (0.12, 4.20) | 4 (5.6) | 1 (2.9) | 0.62  (0.11, 3.46) |
| NPEV | 8 (11.6) | 7 (25.9) | 1.86  (0.93, 3.73) | 7 (9.7) | 8 (22.9) | 1.80  (1.02, 3.18) |
| Cryptosporidium | 2 (2.9) | 1 (3.7) | 1.19  (0.23, 6.14) | 2 (2.8) | 1 (2.9) | 1.01  (0.20, 5.19) |
| Giardia | 2 (2.9) | 1 (3.7) | 1.18  (0.23, 5.95) | 2 (2.8) | 1 (2.9) | 0.99  (0.20, 5.02) |
| **Pathogen**  **burden** | **Mean** (SD) | **Mean** (SD**)** | **Unadjusted**  (95% CI) | **Mean (SD)** | **Mean (SD)** | **Unadjusted**  (95% CI) |
| All pathogens | 0.65 (0.97) | 1.07 (0.96) | 1.26  (0.95, 1.66) | 0.67 (0.98) | 0.86 (0.94) | 1.12  (0.86, 1.46) |
| Bacteria | 0.35 (0.64) | 0.59 (0.84) | 1.34  (0.93, 1.95) | 0.36 (0.63) | 0.46 (0.78) | 1.16  (0.78, 1.72) |
| Viruses[[2]](#footnote-2) | 0.25 (0.53) | 0.41 (0.57) | 1.34  (0.81, 2.21) | 0.25 (0.52) | 0.34 (0.54) | 1.20  (0.75, 1.90) |
| Parasites | 0.06 (0.24) | 0.07 (0.27) | 1.19  (0.36, 3.94) | 0.06 (0.23) | 0.06 (0.24) | 1.00  (0.21, 3.28) |

1. We defined our narrowest window of stool specimen collection as 14 days before the first dose of rotavirus vaccine receipt.

   3 Individual pathogens only included in this analysis if their overall prevalence in the sensitivity cohort >3%. [↑](#footnote-ref-1)
2. Does not include rotavirus and non-polio enterovirus

   Effect size (95% CI) marked in bold if P-value is significant at the false discovery rate (0.05). Where detections were too few to compute an effect size, marked in table with -- [↑](#footnote-ref-2)