S4 Table - Attack rates according to alternative diagnostic criteria. ST = *S*. Typhi. SPT = *S*. Paratyphi A. p = Fishers exact test.

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|    | Challenge Group  |
| S. Typhi Challenge | S. Paratyphi Challenge  |
| ST Naïve  | ST-ST Re-Challenge | SPT-ST Re-Challenge | SPT Naïve | SPT-SPT Re-Challenge | ST-SPT Re-Challenge |
| Composite Criteria, n (% attack rate) | 12/19 (63%) | 12/27(44%) | 7/10(70%) | 10/18 (56%) | 3/12(25%) | 13/26(50%) |
| RR (95% CI)Compared with naïve controls | Ref. | 0.7 (0.40-1.23) | 1.10 (0.59-1.87) | Ref. | 0.15(0.15-1.14) | 0.90(0.51-1.58) |
| p | Ref. | 0.24 | 0.99 | Ref. | 0.14 | 0.76 |
| Fever ≥38˚C (any duration) | 9/19 (47%) | 9/27(33%) | 3/10(30%) | 6/18 (33%) | 1/12(8%) | 8/26(31%) |
| RR (95% CI)Compared with naïve controls | Ref. | 0.70(0.35-1.45) | 0.63(0.21-1.60) | Ref. | 0.25(0.04 – 1.29) | 1.1(0.45-2.58) |
| p | Ref. | 0.37 | 0.44 | Ref. | 0.19 | 0.99 |
| Fever ≥38·0˚C (any duration) + *S.* Typhi bacteraemia | 9/19 (47%) | 7/27(26%) | 3/10(30%) | 5/18 (27%) | 1/12(8%) | 8/26(31%) |
| RR (95% CI)Compared with naïve controls | Ref. | 0.54(0.25-120) | 0.63(0.21-1.60) | Ref. | 0.3(0.05-1.61) | 0.90(0.35 -2.31) |
| p | Ref. | 0.20 | 0.44 | Ref. | 0.35 | 0.99 |
| Fever ≥38·0˚C (any duration) with subsequent bacteraemia | 0/19(0%) | 4/27(15%) | 0/10(0%) | 2/18(11%) | 1/12(8%) | 2/26(8%) |
| RR (95% CI)Compared with naïve controls | Ref. | - | - | Ref. | 0.75(0.10 – 5.14) | 0.69(0.11 – 4.4) |
| p | Ref. | - | - | Ref. | 0.99 | 0.99 |
| *S*. Typhi bacteraemia OR stool shedding | 14/19 (74%) | 20/27 (74%) | 9/10(90%) | 14/18 (77%) | 5/12 (42%) | 15/26(58%) |
| RR (95% CI)Compared with naïve controls | Ref. | 1(0.71-1.51) | 1.22(0.77 – 1.80) | Ref. | 0.75(0.10 – 5.14) | 0.74(0.49 – 1.12) |
| p | Ref. | 0.99 | 0.63 | Ref. | 0.06 | 0.20 |
| *S*. Typhi bacteraemia AND stool shedding | 7/19 (37%) | 6/27(22%) | 7/10(70%) | 4/18 (22%) | 2/12(17%) | 7/26(27%) |
| RR (95% CI)Compared with naïve controls | Ref. | 0.6(0.24-1.49) | 1.9(0.9 – 3.9) | Ref. | 0.75(0.18-2.96) | 1.21(0.41-3.53) |
| p | Ref. | 0.33 | 0.12 | Ref. | 0.99 | 0.99 |
| Any Shedding | 9/19 (47%) | 15/27 (56%) | 9/10(90%) | 9/18 (50%) | 4/12(33%) | 9/26 (35%) |
| RR (95% CI)Compared with naïve controls | Ref. | 1.17(0.67-2.19) | 1.9(1.10 – 3.37) | Ref. | 0.67(0.25-1.54) | 0.69(0.34 – 1.40) |
| p | Ref. | 0.76 | 0.043 | Ref. | 0.47 | 0.36 |