### Appendix S1. ITIP3 chest-indrawing pneumonia cohort and ITIP2 pentavalent and pneumococcal vaccinations

| ITIP3 chest-indrawing pneumonia cohort n (%) | ITIP2 3-day amoxicillin n (%) | ITIP2 5-day amoxicillin n (%) |
|--------------------------------------------|-------------------------------|-------------------------------|
| < 10 weeks                                 | 10 - 14 weeks                 | ≥ 14 weeks                    |
| n=34                                       | n=109                         | n=779                         |
| All doses unknown, n (%)                   | 48 (44.0%)                    | 469 (60.2%)                   | 40 (88.9%) | 66 (52.4%) | 842 (63.5%) | 32 (88.9%) | 66 (55.0%) | 854 (63.4%) |
| 1 (2.9%)                                   | 2 (2.8%)                      | 5 (46.0%)                     | 2 (4.4%)  | 2 (3.1%)  | 132 (10.0%) | 2 (5.6%)  | 54 (45.0%) | 134 (9.9%)  |
| Some doses missed or unknown, n (%)        | 58 (53.2%)                    | 98 (12.6%)                    | 2 (4.4%)  | 8 (10.0%) | 56 (44.4%) | 2 (5.6%)  | 50 (41.7%) | 22 (1.6%)   |
| Received 1 dose, n (%)                     | 3 (0.4%)                      | 2 (1.6%)                      | 5 (0.4%)  | 2 (5.6%)  | 4 (3.3%)   | 4 (0.3%)  |            |             |
| Received 0 doses, n (%)                    | 5 (14.7%)                     | 9 (8.3%)                      | 2 (4.4%)  | 2 (1.6%)  | 5 (0.4%)   | 2 (5.6%)  | 4 (3.3%)   | 4 (0.3%)    |

### Pneumococcal conjugate vaccine

| Received age-appropriate number of doses,* n (%) | ITIP2 3-day amoxicillin n (%) | ITIP2 5-day amoxicillin n (%) |
|------------------------------------------------|-------------------------------|-------------------------------|
| < 10 weeks                                      | 10 - 14 weeks                 | ≥ 14 weeks                    |
| n=35                                           | n=120                         | n=1347                        |
| All doses unknown, n (%)                       | 48 (44.0%)                    | 463 (59.4%)                   | 40 (88.9%) | 66 (52.4%) | 835 (63.0%) | 32 (88.9%) | 67 (55.8%) | 853 (63.3%) |
| 1 (2.9%)                                       | 3 (2.8%)                      | 212 (27.2%)                   | 3 (6.7%)  | 2 (1.6%)  | 352 (26.6%) | 2 (5.6%)  | 0 (0.0%)  | 360 (26.7%) |
| Some doses missed or unknown, n (%)            | 58 (53.2%)                    | 104 (13.4%)                   | 2 (4.4%)  | 58 (46.0%) | 138 (10.4%) | 2 (5.6%)  | 53 (44.2%) | 134 (9.9%)  |
| Received 2 doses, n (%)                        | 0 (0.0%)                      | 77 (9.9%)                     | 0 (0.0%)  | 0 (0.0%)  | 109 (8.2%)  | 0 (0.0%)  | 0 (0.0%)  | 110 (8.2%)  |
| Received 1 dose, n (%)                         | 49 (45.0%)                    | 24 (3.1%)                     | 0 (0.0%)  | 56 (44.4%) | 23 (1.7%)   | 0 (0.0%)  | 49 (40.8%) | 21 (1.6%)   |
| Received 0 doses, n (%)                        | 9 (8.3%)                      | 3 (0.4%)                      | 2 (4.4%)  | 2 (1.6%)  | 6 (0.5%)    | 2 (5.6%)  | 4 (3.3%)   | 3 (0.2%)    |

*One dose if at least 6 weeks and up to 10 weeks old, 2 doses if at least 10 weeks and up to 14 weeks old, 3 doses if at least 14 weeks old