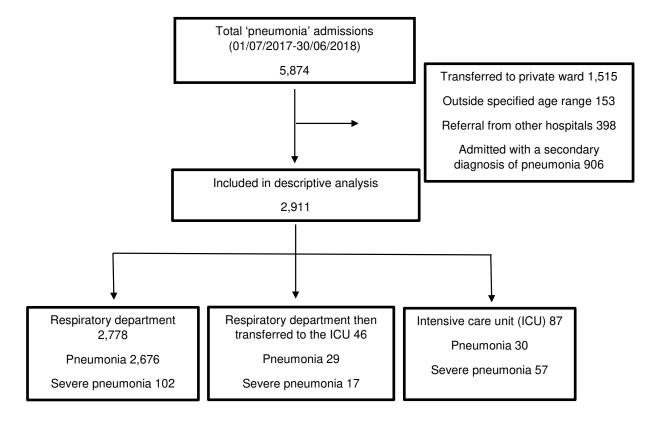
Supplementary material Arch Dis Child

## On-line supplement

Figure S1. Flow chart of participant recruitment



Supplementary material Arch Dis Child

Table S1. Pre-admission antibiotic use in children admitted to hospital with pneumonia

| Pre-admission antibiotic used | Respiratory<br>ward | Ward admission followed by ICU transfer | Intensive care<br>unit (ICU) |
|-------------------------------|---------------------|---|------------------------------|
| Used an antibiotic            | 1406 (50.6)         | 18 (39.1)                               | 38 (43.7)                    |
| Days of use (median, IQR)     | 3 (3-5)             | 3.5 (2.0-2.5)                           | 3 (2-5)                      |
| Antibiotic provider           |                     |   |                              |
| Private clinic                | 872 (31.4)          | 13 (28.3)                               | 23 (26.4)                    |
| Pharmacy                      | 353 (12.7)          | 3 (6.5)                                 | 4 (4.6)                      |
| Hospital outpatient clinic    | 505 (18.2)          | 5 (10.9)                                | 12 (13.8)                    |
| Others <sup>a</sup>           | 106 (3.8)           | 3 (6.5)                                 | 6 (6.9)                      |
| Unknown <sup>b</sup>          | 942 (33.9)          | 22 (47.8)                               | 42 (48.3)                    |
| Antibiotic used <sup>c</sup>  |                     |   |                              |
| Amoxicillin                   | 52 (3.7)            | 0                                       | 1 (2.6)                      |
| Amoxi/clav                    | 139 (9.9)           | 3 (16.7)                                | 2 (5.3)                      |
| Macrolide                     | 98 (7.0)            | 1 (5.6)                                 | 1 (2.6)                      |
| Cephalosporin 1st             | 37 (2.6)            | 1 (5.6)                                 | 0                            |
| Cephalosporin 2 <sup>nd</sup> | 320 (22.7)          | 3 (16.7)                                | 8 (21.1)                     |
| Cephalosporin 3 <sup>rd</sup> | 77 (5.5)            | 3 (16.7)                                | 4 (10.5)                     |
| Unknown/Othersd               | 606 (43.1)          | 5 (27.7)                                | 15 (39.5)                    |
| Non-oral route                |                     |   |                              |
| Intramuscular (IM)e           | 38 (2.7)            | 2 (11.0)                                | 1 (2.6)                      |
| Intravenous (IV)e             | 39 (2.8)            | 0                                       | 6 (15.8)                     |
| Total                         | 2778                | 46                                      | 87                           |

Amoxi/clav – amoxicillin with clavulanic acid; ICU – intensive care unit; IQR – interquartile range aincluding traditional healer, rural clinic; bnot recorded; cusing everyone that received an antibiotic as the denominator; dmostly unknown, but also included oral clindamycin, quinolones, neomycin inhaler; ereceived at least 1 injection – mostly at private clinic; IM gentamycin or IV 3rd generation cephalosporin