

## Supplementary Tables

**Table S1:** Antibiotic resistance and multidrug resistance (MDR) profiles of *S. pneumoniae* serotype. The table shows the number and percentage of resistant isolates for each antibiotic, grouped by serotype.

| Antibiotics | Serotypes   |             |             |             |               |               |             |                   | Total         |
|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------------|-------------------|---------------|
|             | 23F<br>(9)  | 4<br>(5)    | 9V<br>(5)   | 14<br>(10)  | 19F<br>(14)   | 19A<br>(20)   | 3<br>(7)    | non PCV13<br>(36) |               |
| E           | 3<br>(2.8%) | 4<br>(3.7%) | 2<br>(1.8%) | 4<br>(3.7%) | 8<br>(7.5%)   | 12<br>(11.3%) | 4<br>(3.7%) | 25<br>(23.5%)     | 62<br>(58.5%) |
| P           | 6<br>(5.6%) | 3<br>(2.8%) | 4<br>(3.7%) | 2<br>(1.8%) | 9<br>(8.4%)   | 9<br>(8.4%)   | 3<br>(2.8%) | 21<br>(19.8%)     | 57<br>(53.5%) |
| AML         | 9<br>(8.4%) | 4<br>(3.7%) | 4<br>(3.7%) | 6<br>(5.6%) | 10<br>(9.4%)  | 13<br>(12.2%) | 5<br>(4.7%) | 24<br>(22.6%)     | 75<br>(70.8%) |
| CIP         | 2<br>(1.8%) | 0<br>(0%)   | 1<br>(0.9%) | 1<br>(0.9%) | 3<br>(2.8%)   | 2<br>(1.8%)   | 1<br>(0.9%) | 7<br>(6.6%)       | 17<br>(16.0%) |
| DO          | 1<br>(0.9%) | 0<br>(0%)   | 0<br>(0%)   | 1<br>(0.9%) | 2<br>(1.8%)   | 2<br>(1.8%)   | 1<br>(0.9%) | 2<br>(1.8%)       | 9<br>(8.5%)   |
| CRO         | 1<br>(0.9%) | 0<br>(0%)   | 0<br>(0%)   | 0<br>(0%)   | 0<br>(0%)     | 2<br>(1.8%)   | 1<br>(0.9%) | 0<br>(0%)         | 4<br>(3.8%)   |
| OX          | 6<br>(5.6%) | 4<br>(3.7%) | 4<br>(3.7%) | 8<br>(7.5%) | 7<br>(6.6%)   | 17<br>(16.0%) | 5<br>(4.7%) | 26<br>(24.5%)     | 77<br>(72.6%) |
| CTX         | 3<br>(2.8%) | 0<br>(0%)   | 0<br>(0%)   | 2<br>(1.8%) | 0<br>(0%)     | 2<br>(1.8%)   | 0<br>(0%)   | 1<br>(0.9%)       | 8<br>(7.5%)   |
| SXT         | 5<br>(4.7%) | 0<br>(0%)   | 1<br>(0.9%) | 3<br>(2.8%) | 4<br>(3.7%)   | 1<br>(0.9%)   | 0<br>(0%)   | 9<br>(8.4%)       | 23<br>(21.7%) |
| FEP         | 3<br>(2.8%) | 0<br>(0%)   | 0<br>(0%)   | 3<br>(2.8%) | 0<br>(0%)     | 4<br>(3.7%)   | 0<br>(0%)   | 3<br>(2.8%)       | 13<br>(12.3%) |
| OFX         | 5<br>(4.7%) | 5<br>(4.7%) | 1<br>(0.9%) | 8<br>(7.5%) | 11<br>(10.3%) | 12<br>(11.3%) | 6<br>(5.6%) | 23<br>(21.6%)     | 71<br>(67.0%) |
| AZM         | 8<br>(7.5%) | 4<br>(3.7%) | 5<br>(4.7%) | 6<br>(5.6%) | 10<br>(9.4%)  | 12<br>(11.3%) | 5<br>(4.7%) | 20<br>(18.8%)     | 70<br>(66.0%) |
| C           | 1<br>(0.9%) | 1<br>(0.9%) | 2<br>(1.8%) | 1<br>(0.9%) | 2<br>(1.8%)   | 1<br>(0.9%)   | 0<br>(0%)   | 4<br>(3.7%)       | 12<br>(11.3%) |
| TE          | 2<br>(1.8%) | 4<br>(3.7%) | 4<br>(3.7%) | 3<br>(2.8%) | 7<br>(6.6%)   | 12<br>(11.3%) | 3<br>(2.8%) | 15<br>(14.1%)     | 50<br>(47.1%) |

**Table S2:** Distribution of resistance-associated genes among different *S. pneumoniae* serotypes.

| Serotypes | Genes       |             |            |             |
|-----------|-------------|-------------|------------|-------------|
|           | <i>ermB</i> | <i>tetM</i> | <i>cat</i> | <i>mefA</i> |
| 23F       | 7(6.6%)     | 4(3.7%)     | 5(4.7%)    | 1(0.9%)     |
| 19A       | 11(10.3%)   | 13(12.2%)   | 10(9.4%)   | 2(1.8%)     |
| 4         | 2(1.8%)     | 2(1.8%)     | 3(2.8%)    | 1(0.9%)     |
| 9V        | 2(1.8%)     | 5(4.7%)     | 3(2.8%)    | 0(0%)       |
| 14        | 9(8.4%)     | 4(3.7%)     | 7(6.6%)    | 2(1.8%)     |
| 19F       | 10(9.4%)    | 6(5.6%)     | 8(7.5%)    | 4(3.7%)     |
| 3         | 6(5.6%)     | 2(1.8%)     | 2(1.8%)    | 2(1.8%)     |
| non PCV13 | 26(24.5)    | 17(16.0%)   | 21(19.8%)  | 8(7.5%)     |
| Total     | 73          | 53          | 59         | 20          |