**Supplementary Material**

**Table S6. Parameters for estimating disease burden due to *Streptococcus pneumoniae***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Health state** | **Percentage of syndrome attributable to *S. pneumoniae***  | **Duration** | **Severity weight** | **Episode length\*** |
| Bacterial meningitis (BM) | 32 (0–4 years)45 (5–14 years)51 (≥15years)[1,2] | 2 weeks[3] | 0.652 | 3 years |
| Sequelae of BM\*\* |  |  |  |  |
| Seizures | 24[2] | Permanent | 0.039 | N/A |
| Motor deficits | 65[2] | Permanent | 0.062 | N/A |
| Deafness | 9[4] | Permanent | 0.071 | N/A |
| Septicaemia | 4.8[5] | 1 week[6] | 0.652 | 30 days |
| Pneumonia | 30[7] | 2 weeks | 0.136 | 30 days |
| Septic arthritis | 1[8] | 19 days[9] | 0.108 | 60 days |
| Acute bronchitis | 20[10] | 2 weeks[11] | 0.086 | 30 days |
| Otitis media | 26[12] | 4.5 days[13] | 0.052 | 30 days |
| Conjunctivitis | 12[14] | 1 week[15] | 0.023 | 15 days |

\* Episode length denotes the amount of time that must have elapsed between occurrences of the infection in the health care utilization data to be considered separate events in a single individual.

\*\* Percentage of cases that progress to health state

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