

# **Dominance of vaccine serotypes in pediatric invasive pneumococcal infections in Portugal (2012-2015)**

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Table S1. Incidence of invasive pneumococcal infections caused by *Streptococcus pneumoniae* serotypes included in the conjugate vaccine formulations by age group, Portugal, July 2012-June 2015.

| Age group | Serotype group <sup>a</sup> | Incidence (95% confidence intervals) <sup>b</sup> |                       |                       |
|-----------|-----------------------------|---------------------------------------------------|-----------------------|-----------------------|
|           |                             | 2012-2013                                         | 2012-20132            | 2014-2015             |
| [0,17]    | PCV7                        | 0.96 (0.61 - 1.52)                                | 0.94 (0.59 - 1.5)     | 1.17 (0.77 - 1.78)    |
|           | PCV10                       | 1.99 (1.44 - 2.74)                                | 1.46 (1 - 2.13)       | 1.93 (1.39 - 2.69)    |
|           | PCV13                       | 3.01 (2.32 - 3.9)                                 | 2.08 (1.52 - 2.85)    | 3.13 (2.42 - 4.06)    |
|           | NVT                         | 1.55 (1.08 - 2.22)                                | 2.49 (1.86 - 3.32)    | 1.83 (1.3 - 2.57)     |
|           | All serotypes               | 4.55 (3.68 - 5.63)                                | 4.57 (3.64 - 5.57)    | 4.96 (3.92 - 5.93)    |
| [5,17]    | PCV7                        | 0.17 (0.05 - 0.57)                                | 0.08 (0.01 - 0.42)    | 0.17 (0.05 - 0.58)    |
|           | PCV10                       | 0.69 (0.37 - 1.28)                                | 0.31 (0.12 - 0.77)    | 0.78 (0.43 - 1.41)    |
|           | PCV13                       | 0.95 (0.56 - 1.61)                                | 0.53 (0.26 - 1.08)    | 1.39 (0.89 - 2.17)    |
|           | NVT                         | 0.42 (0.19 - 0.92)                                | 0.84 (0.48 - 1.48)    | 0.43 (0.2 - 0.95)     |
|           | All serotypes               | 1.36 (0.87 - 2.13)                                | 1.37 (0.87 - 2.13)    | 1.82 (1.21 - 2.65)    |
| [2,4]     | PCV7                        | 1.46 (0.59 - 3.65)                                | 0.35 (0.06 - 1.97)    | 1.84 (0.79 - 4.28)    |
|           | PCV10                       | 4.03 (2.29 - 7.07)                                | 1.39 (0.54 - 3.57)    | 3.4 (1.81 - 6.37)     |
|           | PCV13                       | 7.32 (4.81 - 11.14)                               | 3.82 (2.13 - 6.84)    | 5.82 (3.59 - 9.44)    |
|           | NVT                         | 2.9 (1.5 - 5.61)                                  | 4.17 (2.38 - 7.28)    | 2.49 (1.2 - 5.18)     |
|           | All serotypes               | 10.22 (7.16 - 14.59)                              | 7.99 (5.22 - 11.76)   | 8.31 (5.22 - 11.76)   |
| [1,2]     | PCV7                        | 4.98 (2.06 - 12.05)                               | 3.98 (1.44 - 10.97)   | 7.99 (3.79 - 16.85)   |
|           | PCV10                       | 4.98 (2.06 - 12.05)                               | 6.63 (2.98 - 14.74)   | 7.99 (3.79 - 16.85)   |
|           | PCV13                       | 11.21 (6.16 - 20.41)                              | 6.63 (2.98 - 14.74)   | 13.32 (7.44 - 23.86)  |
|           | NVT                         | 4.98 (2.06 - 12.05)                               | 3.81 (1.36 - 10.73)   | 13.32 (7.44 - 23.86)  |
|           | All serotypes               | 16.19 (9.81 - 26.71)                              | 10.44 (5.11 - 18.46)  | 26.65 (15.68 - 35.95) |
| [0,1]     | PCV7                        | 7.7 (3.66 - 16.2)                                 | 14.29 (8.14 - 25.1)   | 8.49 (4.14 - 17.42)   |
|           | PCV10                       | 12.83 (7.18 - 22.95)                              | 15.72 (9.18 - 26.92)  | 9.91 (5.08 - 19.31)   |
|           | PCV13                       | 12.83 (7.18 - 22.95)                              | 17.15 (10.24 - 28.71) | 12.74 (7.06 - 23)     |
|           | NVT                         | 11.55 (6.26 - 21.29)                              | 22.87 (14.62 - 35.77) | 11.1 (5.9 - 20.88)    |
|           | All serotypes               | 24.38 (15.95 - 37.27)                             | 40.02 (27.28 - 53.8)  | 23.84 (15.03 - 35.87) |

<sup>a</sup> PCV – pneumococcal conjugate vaccine, NVT – non-vaccine serotype

<sup>b</sup> Number of cases per 100,000 in specified age group. Epidemiological years: from week 26 of one year to week 25 of the following year.