SDC 3.Antibiotic resistance among isolates from 4 sampling periods by serotype groupa

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| --- | --- | --- | --- | --- | --- |
|  | Year | Total isolates, N (%)  2001: N=168b  2004: N=228c  2007: N=293  2009: N=290 | PCV13  Serotypes, N (%)  2001: N=89  2004: N=84  2007: N=75  2009: N=64 | Non-PCV13 serotypes, N (%)  2001: N=62 2004: N=139 2007: N=218 2009: N=226 | P-value for  PCV13 vs. non-PCV13 by study period |
| PNSP>0.06 | 2001 | N=56 (33%) | 43 (48) | 8 (13) | <.0001 |
| 2004 | 86 (38) | 48 (57) | 37 (27) | <.0001 |
| 2007 | 107 (37) | 47 (63) | 60 (28) | <.0001 |
| 2009 | 98 (34) | 41 (64) | 57 (25) | <.0001 |
| PNSP>2.0 | 2001 | 19 (11) | 15 (17) | 4 (6) | 0.072 |
| 2004 | 7 (3) | 7 (8) | 0 (0) | - d |
| 2007 | 11 (4) | 11 (15) | 0 (0) | - d |
| 2009 | 17 (6) | 17 (27) | 0 (0) | - d |
| Erythromycin-NS | 2001 | 36 (22) | 27 (32) | 4 (7) | 0.002 |
| 2004 | 52 (23) | 31 (37) | 20 (14) | <.001 |
| 2007 | 58 (20) | 22 (29) | 36 (17) | 0.019 |
| 2009 | 83 (29) | 35 (55) | 48 (21) | <.0001 |
| Clindamycin-NS | 2001 | 7 (4) | 6 (7) | 0 (0) | - d |
| 2004 | 21 (9) | 6 (7) | 15 (11) | 0.461 |
| 2007 | 21 (7) | 8 (11) | 13 (6) | 0.175 |
| 2009 | 29 (10) | 17 (27) | 12 (5) | <.0001 |
| Trimethoprim-sulfamethoxazole-NS | 2001 | 51 (31) | 41 (48) | 8 (13) | <.0001 |
| 2004 | 50 (22) | 29 (35) | 21 (15) | 0.001 |
| 2007 | 57 (19) | 23 (31) | 34 (16) | 0.003 |
| 2009 | 58 (20) | 29 (45) | 29 (13) | <.0001 |
| Ceftriaxone-NS | 2001 | 11 (7) | 10 (11) | 1 (2) | 0.059 |
| 2004 | 5 (2) | 5 (6) | 0 (0) | - d |
| 2007 | 14 (5) | 12 (16) | 2 (1) | <.001 |
| 2009 | 30 (10) | 23 (36) | 7 (3) | <.0001 |

a Antibiotic abbreviations are as follows: PNSP (penicillin non-susceptible *Streptococcus pneumoniae*), PCN (penicillin), I (intermediate-susceptibility), R (resistant), NS (non-susceptible). The following breakpoints were used: PNSP>0.06 , erythromycin-NS (>0.25), clindamycin-NS (>0.5), trimethoprim-sulfamethoxazole-NS, (>0.5), and ceftriaxone-NS (>1.0).

b 2001 isolates, total N fluctuates (N=161-168) based on available susceptibility data. Additionally, 17 were missing serotype.

c 2004 isolates, 5 were missing serotype.

d GLMM model did not converge due to zero cells.