**Supplemental Table 1**. Microbiological data for baseline and follow-up patients with community-acquired pneumonia.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Baseline | Follow-up | | | |
|  | PPA+PPRF | PPA only | p-valuea | PPRF only | p-valueb |
| n | 65 | 72 |  | 66 |  |
| Sputum culture obtained | 36 (55) | 42 (58) | 0.88 | 50 (76) | 0.66 |
| Positivec | 7 (11) | 7 (10) | 0.82 | 15 (23) | 0.04 |
| *Streptococcus pneumoniae* | 2 (3) | 4 (6) |  | 5 (7) |  |
| *Haemophilus influenzae* | 1 (2) | 1 (1) |  | 3 (4) |  |
| Group F Streptococcus | 1 (2) | 0 (0) |  | 0 (0) |  |
| *Klebsiella* spp. | 1 (2) | 1 (1) |  | 1 (1) |  |
| Blood culture obtained | 56 (86) | 63 (88) | 0.76 | 56 (85) | 0.65 |
| Positived | 1 (2) | 6 (8) | 0.07 | 4 (6) | 0.85 |
| *S. pneumoniae* | 1 (2) | 1 (1) |  | 1 (1) |  |
| *H. influenzae* | 0 (0) | 1 (1) |  | 0 (0) |  |
| *S. pneumoniae* urinary antigen obtained | 48 (74) | 64 (89) | 0.03 | 55 (83) | 0.34 |
| Positive | 2 (3) | 12 (17) | 0.01 | 1 (1) | 0.002 |

All values represent n (%), unless otherwise noted. PPA, pre-prescription authorization; PPRF, post-prescription review and feedback.

a Comparison of PPA arm to PPA+PPRF arm.

b Comparison of PPRF arm to PPA arm.

c Patients with the following positive sputum cultures were excluded from the analysis: *Staphylococcus aureus* (2 PPA+PPRF, 3 PPA, 5 PPRF) and *Enterococcus faecalis* (1 PPRF). Two patients with positive *Legionella* urinary antigen tests (1 PPA, 1 PPRF) were excluded from the analysis. One PPRF arm patient had a positive sputum culture for *Pseudomonas aeruginosa* and a positive urinary *Streptococcus pneumoniae* antigen, and was included in the analysis.

d Positive blood cultures also included coagulase-negative *Staphylococcus* spp. (4 PPA, 1 PPRF), *Enterococcus faecalis* (1 PPRF), *Staphylococcus aureus* (1 PPRF). One PPRF patient with *Klebsiella pneumoniae* bacteremia was excluded.