

Table S8. Demographics and outcomes of adults hospitalized with non-pCAP and pCAP from years 2010 to 2015 tested with any or all tests for *S. pneumoniae*.

Variable	Any test performed ²			All test performed ³			Comparison of any ² vs. all ³ tests performed in pCAP cases
	Non-pCAP (n=5836)	pCAP (n=830)	P value	Non-pCAP (n=986)	pCAP (n=212)	P value	P value
Age, median [range]	71 [17-108]	63 [19-103]	0.000	66 [18-96]	62 [19-99]	0.003	NS
Gender, male (%)	54.0 (3150/5836)	52.5 (436/830)	0.435	60.6 (598/986)	54.2 (115/212)	0.055	0.655
≥ 1 co-morbidity (%)	94.1 (5497/5836)	88.6 (735/830)	0.000	93.0 (917/986)	89.2 (189/212)	0.085	0.807
Immune compromise (%)	31.4 (1833/5836)	28.8 (239/830)	0.128	33.3 (328/986)	29.7 (63/212)	0.317	0.792
Current or past smoker (%) ¹	68.7 (3715/5403)	73.7 (577/783)	0.128	69.3 (676/976)	74.5 (158/212)	0.129	0.806
Obesity, body mass index ≥30 (%) ¹	27.3 (1369/5015)	22.9 (165/721)	0.012	27.2 (259/951)	24.5 (50/204)	0.425	0.628
Influenza infection (%) ¹	18.2 (601/2702)	16.5 (75/381)	0.362	10.0 (98/549)	7.0 (15/124)	0.230	0.055
Pneumococcal vaccine receipt (%) ¹	61.7 (2293/3717)	45.4 (248/546)	0.000	47.4 (466/789)	33.0 (71/178)	0.000	0.197
PCV13 (%) ¹	2.6 (38/1462)	1.3 (5/155)	0.644	2.7 (9/334)	5.7 (3/52)	0.235	0.410
PPV23 (%) ¹	96.9 (1416/1462)	94.8 (147/155)	0.184	96.7 (323/334)	92.3 (48/52)	0.127	0.499
Antibiotic ≤4hrs	69.1 (3770/5452)	73.3 (578/788)	0.016	71.0 (644/907)	84.8 (167/197)	0.000	0.001
30-day mortality (%)	11.4 (666/5836)	8.4 (70/830)	0.010	10.0 (99/986)	7.1 (15/212)	0.182	0.519
LOS in days, median [range]	7 [1-384]	7 [1-125]	0.628	9 [1-372]	8 [1-105]	0.708	NS
ICU admission (%)	17.9 (1043/5836)	19.7 (164/830)	0.186	28.6 (282/986)	42.0 (89/212)	0.461	0.000
Mechanical ventilation (%)	11.4 (667/5836)	8.4 (70/830)	0.010	21.8 (215/986)	31.1 (66/212)	0.004	0.000
Any complications (%) ¹	53.8 (3132/5825)	56.0 (464/829)	0.234	60.4 (596/986)	62.7 (133/212)	0.535	0.076

¹Denominators reflect the available data. ²CAP cases tested with at least one² or all³ diagnostic test for *S. pneumoniae* (Spn): culture from blood or sputum, and/or urine antigen detection. *P* values represent comparisons between pCAP and non-pCAP cases for each category. Abbreviations: Not significant (NS).