

Electronic Supplementary Material

Suspected CAP patients, admitted in the influenza season

	Not tested (n=227)	Tested (n=190)	p value
Age, median years (Q1, Q3)	62.0 (48.0, 71.0)	62.5 (49.0, 73.0)	0.21
Male, n (%)	162 (71%)	105 (55%)	<.001
BMI, median (Q1, Q3)	24.8 (22.2, 27.8)	24.7 (22.0, 29.2)	0.65
Medical admission, n (%)	189 (83%)	188 (99%)	<.001
Hospital days prior to ICU admission, median (Q1, Q3)	0.0 (0.0, 1.0)	0.0 (0.0, 0.0)	0.54
Comorbidities			
COPD, n (%)	32 (14%)	53 (28%)	<.001
Congestive heart failure, n (%)	13 (6%)	12 (6%)	0.80
Diabetes mellitus, n (%)	43 (19%)	43 (23%)	0.35
Chronic renal insufficiency, n (%)	17 (7%)	21 (11%)	0.21
Malignancy, n (%)	22 (10%)	15 (8%)	0.52
Splenectomy, n (%)	1 (0%)	0 (0%)	0.36
Immune deficiency, n (%) ^a	21 (9%)	52 (27%)	<.001
APACHE IV Score, median (Q1, Q3)	79.0 (60.0, 105.0)	77.0 (60.0, 97.0)	0.61
Acute Physiology Score, median (Q1, Q3)	65.0 (49.0, 95.0)	63.0 (48.0, 80.0)	0.11
SOFA score on admission, median (Q1, Q3)	7.0 (5.0, 9.0)	8.0 (5.0, 10.0)	0.19
In the first 24 hours of admission			
Highest central body temperature, median °C (Q1, Q3)	37.7 (36.9, 38.4)	37.8 (37.1, 38.7)	0.025
First measured CRP, median mg/L (Q1, Q3)	47.0 (6.0, 185.0)	163.0 (50.0, 249.0)	<.001
Highest leucocytes, median cells·10 ⁹ /L (Q1, Q3)	14.9 (10.5, 19.0)	11.5 (6.5, 16.4)	<.001
Leucopenia, n (%) ^b	22 (10%)	40 (21%)	0.001
Use of vasoactive medication > 1h, n (%)	139 (61%)	118 (62%)	0.86
Acute renal failure, n (%)	20 (9%)	33 (17%)	0.009
Highest serum lactate, median mmol/L (Q1, Q3)	2.6 (1.7, 4.5)	2.2 (1.5, 3.4)	0.007

Supplementary Table S1. Baseline variables of a subgroup of patients admitted with a suspected CAP in the influenza season, comparing patients tested for respiratory viruses versus patients that were not tested. Influenza season was defined from November 1st to April 30th

Abbreviations: APACHE IV = Acute Physiology and Chronic Health Evaluation IV; BMI = body mass index; CAP = community-acquired pneumonia; COPD = chronic obstructive pulmonary disease; CRP = C-reactive protein; HAP = hospital-acquired pneumonia; ICU = intensive care unit; SOFA = sequential organ failure assessment.

^a Immunodeficiency was defined as a history of solid organ or stem cell transplantation, infection with the human immunodeficiency virus, hematological malignancy, use of immunosuppressive medication (prednisone >0.1 mg/kg for >3 months, prednisone >75 mg/day for >1 week, or equivalent), chemotherapy/radiotherapy in the year before ICU admission, and any known humoral or cellular immune deficiency.

^b Leucopenia was defined as <4·10⁹/L leucocytes