Table S2. Comparison between patients who did invasive sampling while receiving or not receiving invasive mechanical ventilation

	Not fiberoptic-bronchoscopy*		Fiberoptic-bronchoscopy*		
	Not Required iMV (n=35)	Required iMV (n=87)	Not Required iMV (n=43)	Required iMV (n=35)	P value
Age, years, mean SD	$66 \pm 13$	66 ± 12	$66 \pm 14$	$67 \pm 11$	0.99
APACHE II Score at HAP diagnosis, mean SD	$15.2 \pm 4$	$17.7 \pm 6$	$13.3 \pm 4$	$17.5 \pm 5$	< 0.001
SOFA Score at HAP diagnosis, median [p25-p75]	5 [4-7]	7 [5-10]	5 [4-8]	6 [4-8]	< 0.001
PaO <sub>2</sub> /FiO <sub>2</sub> , mean SD	$192 \pm 93$	$169 \pm 71$	209 ± 86	$151 \pm 63$	0.006
Bilateral infiltrates, n (%)	9 (26%)	36 (41%)	6 (14%)	15 (43%)	0.007
Multilobar infiltrates, n (%)	16 (46%)	51 (59%)	22 (51%)	20 (57%)	0.58
ARDS at pneumonia diagnosis, n (%)	2 (6%)	17 (20%)	0 (0%)	8 (24%)	0.003
Respiratory support					
NIV previous of HAP diagnosis	4 (11%)	17 (20%)	14 (33%)	11 (31%)	0.077
NIV to provide support upon HAP diagnosis	9 (26%)	23 (26%)	10 (23%)	12 (34%)	0.73
Need of invasive mechanical ventilation					< 0.001
Within <24h		60 (69%)		12 (34%)	
Within 24-72h		17 (20%)		13 (37%)	
Within >72h		10 (11%)		20 (29%)	
Time to intubation, days					0.001
Mean SD		0.91 (2)		1.57 (2)	
Median [p25-p75]		0 [0-1]		1 [0-3]	
Definitive causative pathogen	12 (34%)	47 (54%)	19 (44%)	21 (60%)	0.112

ARDS: Acute respiratory distress syndrome, APACHE II: Acute Physiology and Chronic Health Evaluation, FBS: fiberoptic-bronchoscopy, HAP: hospital-acquired pneumonia, iMV: invasive mechanical ventilation, NIV: non-invasive ventilation, SOFA score: Sequential Organ Failure Assessment.

<sup>\*</sup> In this table, only considered the invasive approaches (fiberoptic-bronchoscopy) performed before invasive mechanical ventilation in those patients who were subsequently intubated.