

Table S1. Characterization of microbiological cultures (A) and Isolated microorganisms (B) in the analyzed population.

A

Culture	<i>n</i>
Lower respiratory tract	96
Blood	156

B

Isolated Microorganisms	<i>n</i> (%)
<i>Citrobacter koseri</i>	4
<i>Corynebacterium striatum</i>	1
<i>Enterobacter cloacae</i>	1
<i>Enterococcus faecalis</i>	4
<i>Escherichia coli</i>	1
<i>Klebsiella oxytoca</i>	1
<i>Klebsiella pneumoniae</i>	11
<i>Neisseria meningitidis</i>	1
<i>Proteus mirabilis</i>	2
<i>Providentia stuartii</i>	1
<i>Pseudomonas aeruginosa</i>	3
<i>Serratia marcescens</i>	1
<i>Staphylococcus aureus</i>	7
<i>Staphylococcus epidermidis</i>	7
<i>Streptococcus agalactiae</i>	1
<i>Streptococcus constellatus</i>	1
<i>Streptococcus pneumoniae</i>	4

Table S2. Demographic and primary clinical characteristics according to CRP kinetic patterns.

	Pattern A	Pattern B	Pattern C	Pattern D	<i>p</i>
	(<i>n</i> = 3 (8.5%))	(<i>n</i> = 19 (54.3%))	(<i>n</i> = 12 (34.3%))	(<i>n</i> = 1 (2.9%))	
Age, years (mean \pm sd)	68.3 \pm 8.4	64.5 \pm 10.4	61.1 \pm 8.1	67	0.602
Gender, males (<i>n</i> (%))	2 (66.7)	13 (68.4)	10 (83.3)	1 (100)	0.731
SOFA at admission (median (IQR))	3 (2.3;3.3)	5 (3.5; 8)	8 (4.3; 12.5)	1	0.061
SAPS III at admission (mean \pm sd)	42.3 \pm 7.5	40.6 \pm 13.9	44.1 \pm 13.8	25	0.419
Mechanical Ventilation (<i>n</i> (%))	3 (100)	18 (94.7)	12 (100)	1 (100)	0.833
Length of mechanical ventilation, days (mean \pm sd)	28.7 \pm 13.3	21.6 \pm 9.9	24.5 \pm 8.7	9	0.467
Minimum paO ₂ /FiO ₂ registered (mean \pm sd)	72.8 \pm 10.6	93.9 \pm 20.6	91 \pm 26.1	112	0.676
Vasopressor Support (<i>n</i> (%))	3 (100)	19 (100)	10 (83.3)	1 (100)	0.003
Renal support therapy (<i>n</i> (%))	2 (66.6)	9 (47.4)	5 (41.7)	5 (100)	0.689
Maximum CRP registered, mg/dL (mean \pm sd)*	29.4 \pm 1.8	34.9 \pm 7.3	32.5 \pm 13.2	8.24	0.112
Maximum PCT registered, ng/mL (median (IQR))*	8.8 (3.5; -)	8.4 (2.9; 12.9)	1.2 (0.4; 8.7)	0.27	0.089
ICU length of stay, days (median (IQR))	32 \pm 16.8	27.7 \pm 11.9	28.1 \pm 12.7	13	0.612
In-Hospital Length of stay, days (median (IQR))	48.3 \pm 29.2	46.3 \pm 29	44.8 \pm 29.3	28	0.820
In-Hospital mortality rate (<i>n</i> (%))	1 (33.3%)	7 (36.8)	2 (16.7)	0 (0)	0.593

IQR denotes Interquartile range; SOFA denotes Sequential Organ Failure Assessment; SAPS denotes Simplified Acute Physiology Score; CRP denotes C-Reactive Protein; PCT denotes Procalcitonin.

*Registered before Day 0