

Table S1: The distribution of the variables in the survivors vs. non-survivors groups.

Variable	Survivors, N = 505	Non-Survivors, N = 48	AUROC (CI 95%)* or RR (CI 95%)**	p Value	Missing
Symptoms of bacterial infection at admission, N (%)	161 (31.9)	9 (18.8)	0.5 (0.2-1.04)	0.071	
Number of ATBs / patient, N (min, max)	1 (1-7)	2 (1-5)	0.655 (0.570-0.740)	<0.001	
Length of ATB, median (min, max)	10 (2-62)	7 (2-26)		0.132	9
ATBs-days from admission, median (min, max)	0 (0-24)	1 (0-20)		0.056	4
ATBs-days from symptoms onset, median (min, max)	8 (0-78)	11 (0-40)		0.023	8
Antifungal drugs, N (%)	22 (4.4)	4 (8.3)		0.270	
Antiviral	11 (22.9)	179 (35.4)		0.111	
Remdesivir, N (%)	115 (22.8)	9 (18.8)	0.8 (0.4-1.6)	0.591	
Favipiravir, N (%)	82 (16.2)	4 (8.3)		0.209	
Umifenovir, N (%)	3 (0.6)	0		1	
Ferritin at admission, median (min, max)	455 (6-4787)	761.5 (59-5421)	0.640 (0.554-0.726)	0.003	74
Ferritin at ATB prescription, median (min, max)	497 (6-4787)	894 (59-5887)	0.627 (0.508-0.746)	0.042	240
Procalcitonin at admission, median (min, max)	0.09 (0.02-45.5)	0.11 (0.03-24.8)	0.575 (0.461-0.690)	0.171	201
Procalcitonin at ATB prescription, median (min, max)	0.1 (0.02-23)	0.16 (0.02-24.8)	0.636 (0.523-0.748)	0.019	245
Eosinophils at admission, median (min, max)	10 (0-1000)	10 (0-300)		0.829	8
Eosinophils at ATB prescription, median (min, max)	10 (0-1270)	30 (0-340)		0.526	62
Platelet at admission, median (min, max)	222 (27-817)	197 (22-616)	0.571 (0.485-0.657)	0.104	8
Platelet at ATB prescription, median (min, max)	239.5 (27-817)	205 (22-616)	0.610 (0.510-0.709)	0.036	280
AST at admission, median (min, max)	34 (9-548)	50 (20-130)	0.624 (0.540-0.708)	0.005	20
ALT at admission, median (min, max)	30.6 (5-503)	46 (9-179)	0.606 (0.524-0.688)	0.017	13
Creatinine at admission, median (min, max)	0.88 (0.4-5)	0.98 (0.4-2.2)	0.562 (0.467-0.657)	0.156	8
Sodium levels at admission, median (min, max)	138 (109-157)	137 (126-145)		0.423	10
LDH at admission, median (min, max)	303 (101-1319)	365 (132-1113)	0.611 (0.525-0.696)	0.015	48
Hospitalisation length (days), median (min, max)	13 (2, 50)	12 (3, 48)		0.851	0

AUROC - area under the receiver operating characteristic, CI - confidence interval, RR - relative risk, ATB - antibiotic, AST - aspartate aminotransferase, ALT - alanine aminotransferase, LDH - lactate dehydrogenase. Statistical significant values are marked with Bold. We calculated *AUROC for quantitative variables and **RR for qualitative dichotomous variables