

Supplementary Table S3. Chi-squared tests including observed and expected values

Variable	Total n (%)	Survivor n (%) <i>expected value</i>	Non-survivor n (%) <i>expected value</i>	P value ¹
Sex (Male/Female), n	845/413	741/352 734.2/358.8	104/61 110.8//54.2	0.248*
BMI classification, %				
Underweight	10 (0.8%)	9 (0.8%) 8.7	1 (0.6%) 1.3	0.399*
Normal BMI	240 (19.1%)	199 (18.4%) 208.5	41 (24.8%) 31.5	
Overweight	486 (38.6%)	423 (38.3%) 422.3	63 (38.2%) 63.7	
Obesity grade I	322 (25.6%)	285 (26.1%) 279.8	37 (22.4%) 42.2	
Obesity grade II	114 (9.1%)	103 (9.3%) 99.0	11 (6.7%) 15.0	
Obesity grade III	86 (6.8%)	74 (7.0%) 74.7	12 (7.3%) 11.3	
Hypertension (%)	427 (33.9%)	346 (31.7%) 371.0	81 (49.1%) 56.0	<0.001*
Diabetes (%)	270 (21.5%)	216 (19.8%) 234.6	54 (32.7%) 35.4	<0.001*
COPD (%)	34 (2.7%)	22 (2.0%) 29.5	12 (7.3%) 4.5	0.001*
Asma (%)	27 (2.1%)	25 (2.3%) 23.5	2 (1.2%) 3.5	0.422*
Immunosuppression (%)	56 (4.5%)	42 (3.8%) 48.7	14 (8.5%) 7.3	0.010*
Cancer (%)	60 (4.8%)	42 (3.8%) 52.1	18 (10.9%) 7.9	<0.001*
HIV (%)	2 (0.2%)	2 (0.2%) 1.7	0 (0%) 0.3	>0.999*
Previous stroke (%)	16 (1.3%)	11 (1.0%) 13.9	5 (3.0%) 2.1	>0.999*
CKD (%)	49 (3.9%)	39 (3.6%) 42.6	10 (6.1%) 6.4	0.021*
Organ transplant recipient (%)	16 (1.3%)	14 (1.3%) 13.9	2 (1.2%) 2.1	>0.999*
Chronic liver disease (%)	9 (0.7%)	8 (0.7%) 7.8	1 (0.6%) 1.2	>0.999*
ACEI/ARA (%)	283 (22.5%)	234 (21.4%) 245.9	49 (29.7%) 37.1	0.021*
Previous myocardial infarction (%)	35 (2.8%)	23 (2.1%) 30.4	12 (7.3%) 4.6	0.001*
Depression (%)	17 (1.4%)	15 (1.4%)	2 (1.2%)	0.830*

		14.8	2.2	
Smoker (%)				
Never	808 (64.2%)	715 (65.4%) 702.0	93 (56.4%) 106.0	0.071*
Unknown	301 (23.9%)	257 (23.5%) 261.5	44 (26.7%) 39.5	
Currently	65 (5.2%)	54 (4.9%) 56.5	11 (6.7%) 8.5	
Former	84 (6.7%)	67 (6.1%) 73.0	17 (10.3%) 11.0	
Alcohol use (%)				
Never	805 (64.0%)	700 (64.0%) 699.4	105 (63.6%) 105.6	0.114*
Unknown	330 (26.2%)	279 (25.5%) 286.7	51 (30.9%) 43.3	
Currently	109 (8.7%)	102 (9.3%) 94.7	7 (4.2%) 14.3	
Former	14 (1.1%)	12 (1.1%) 12.2	2 (1.2%) 1.8	
COVID-19 pneumonia on imaging (%)	1,133 (90.1%)	981 (90.2) 983.8	152 (92.1) 149.2	0.480*
NIH severity scale (%)				
Critical	64 (5.1%)	26 (2.4%) 55.6	38 (23.0%) 8.4	<0.001*
Moderate	90 (7.2%)	85 (7.8%) 78.2	5 (3.0%) 11.8	
Severe	1,104 (87.8%)	982 (89.8%) 959.2	122 (73.9%) 144.8	
qSOFA (%) n				
0	354 (28.1%)	329 (30.1%) 307.6	25 (15.2%) 46.4	<0.001*
1	816 (64.9%)	714 (65.3%) 709.9	102 (61.8%) 107.0	
2	71 (5.6%)	47 (4.3%) 61.7	24 (14.5%) 9.3	
3	17 (1.4%)	3 (0.3%) 14.8	14 (8.5%) 2.2	
Fever (%) n	756 (60.1%)	658 (60.2%)	98 (59.4%)	0.865*
AVPU score				
Alert	1,196 (95.1%)	1,066 (97.5%) 1039.1	130 (78.8%) 156.9	<0.001*
Voice	30 (2.4%)	17 (1.6%) 26.1	13 (7.9%) 3.9	
Pain	7 (0.6%)	1 (0.1%) 6.1	6 (3.6%) 0.9	
Unresponsive	25 (2.0%)	9 (0.8%)	16 (9.7%)	

		21.7	3.3	
Cough (%)	838 (66.6%)	726 (66.4%) 728.1	112 (67.9%) 109.9	0.724*
Headache (%)	538 (42.8%)	478 (43.7%) 467.4	60 (36.4%) 70.6	0.077*
Dyspnea (%)	1,041 (82.8%)	892 (81.6%) 904.5	149 (90.3%) 136.5	0.008*
Diarrhea (%)	252 (20.0%)	224 (20.5%) 218.9	28 (17.0%) 33.1	0.300*
Chest pain (%)	224 (17.8%)	193 (17.7%) 194.6	31 (18.8%) 29.4	0.743*
Chills (%)	309 (24.6%)	275 (25.7%) 268.5	34 (16.4%) 40.5	0.210*
Odynophagia (%)	308 (24.5%)	281 (37.4) 267.6	27 (29.7%) 40.4	0.011*
Myalgias (%)	458 (36.4%)	409 (37.4%) 397.9	49 (29.7%) 60.1	0.057*
Arthralgias (%)	406 (32.3%)	357 (32.7%) 352.7	49 (29.7%) 53.3	0.476*
Malaise (%)	880 (70.0%)	769 (70.4%) 764.6	111 (67.3%) 115.4	0.466*
Rhinorrhea (%)	151 (12.0%)	135 (12.4%) 131.2	16 (9.7%) 19.8	0.370*
Vomiting (%)	93 (7.4%)	83 (7.6%) 80.8	10 (6.1%) 12.2	0.529*
Abdominal pain (%)	77 (6.1%)	64 (5.9%) 66.9	13 (7.9%) 10.1	0.382*
Conjunctivitis (%)	22 (1.7%)	20 (1.8%) 19.1	2 (1.2%) 2.9	0.757*
Cyanosis (%)	101 (8.0%)	71 (6.5%) 87.8	30 (18.2%) 13.2	<0.001*
Anosmia (%)	145 (11.5%)	135 (12.4%) 126.0	10 (6.1%) 19.0	0.018*
Dysgeusia (%)	129 (10.3%)	118 (10.8%) 112.1	11 (6.7%) 16.9	0.129*
Glasgow Coma Scale <15 (%)	77 (6.1%)	43 (3.9%) 66.9	34 (20.6) 10.1	<0.001*

¹Comparisons are between survivors and non-survivors; *chi-square test with Exact Fisher's test if apply.