

**Table S1.** Inflammatory markers stratified per BMI group, sex, age group, and survival status

Marker / Characteristic	All Patients											
	BMI group											
	BMI < 25		25 ≤ BMI < 30		30 ≤ BMI < 35		35 ≤ BMI < 40		BMI ≥ 40			
	No. (%)	Median (IQR)	No. (%)	Median (IQR)	No. (%)	Median (IQR)	No. (%)	Median (IQR)	No. (%)	Median (IQR)	No. (%)	Median (IQR)
<b>LDH - U/L</b>	6476	432.0 (310.0-611.0)	1822 (28.13)	410.5 (289.0-580.0)	2176 (33.6)	434.0 (316.5-612.5)	1313 (20.27)	434.0 (317.0-615.0)	648 (10.01)	465.0 (331.0-666.0)	517 (7.98)	446.0 (334.0-626.0)
<b>Male</b>	3997 (61.72)	446 (322-628)	1220 (66.96)	418.0 (291.0-598.5)	1457 (66.96)	444.0 (324.0-624.0)	757 (57.65)	460.0 (339.0-655.0)	318 (49.07)	509.5 (357.0-693.0)	245 (47.39)	466.0 (347.0-672.0)
<b>Female</b>	2479 (38.28)	411 (296-580)	602 (33.04)	398.0 (283.0-558.0)	719 (33.04)	419.0 (296.0-580.0)	556 (42.35)	396.0 (296.5-572.5)	330 (50.93)	434.0 (306.0-629.0)	272 (52.61)	434.5 (317.0-605.5)
<b>Age &lt; 65</b>	3492 (53.92)	417 (302-595)	736 (40.4)	385.0 (274.5-560.5)	1161 (53.35)	418.0 (300.0-592.0)	807 (61.46)	419.0 (302.0-592.0)	419 (64.66)	456.0 (325.0-629.0)	369 (71.37)	435.0 (330.0-635.0)
<b>Age ≥ 65</b>	2984 (46.08)	448 (324-626)	1086 (59.6)	434.5 (296.0-602.0)	1015 (46.65)	457.0 (331.0-631.0)	506 (38.54)	457.0 (347.0-647.0)	229 (35.34)	494.0 (341.0-693.0)	148 (28.63)	463.5 (340.5-615.5)
<b>Survived</b>	4615 (71.26)	387 (284-530)	1330 (73)	371.0 (265-509)	1560 (71.69)	393.0 (287.0-532.5)	952 (72.51)	390.0 (295.0-543.0)	442 (68.21)	405.5 (301.0-573.0)	331 (64.02)	391.0 (297.0-543.0)
<b>Died</b>	1861 (28.74)	572 (427-794)	492 (27)	553.0 (396-763)	616 (28.31)	582.0 (440.0-792.0)	361 (27.49)	587.0 (426.0-843.0)	206 (31.79)	613.5 (464.0-801.0)	186 (35.98)	551.0 (426.0-788.0)
<b>Ferritin - ng/mL</b>	6285	740.0 (337.0-1447.0)	1790 (28.48)	744.8 (337.5-1549.0)	2085 (33.17)	835.2 (395.0-1544.0)	1269 (20.19)	668.0 (308.0-1366.1)	638 (10.15)	659.0 (318.0-1267.6)	503 (8)	574.0 (253.0-1157.0)
<b>Male</b>	3891 (61.91)	906 (462-1656)	1193 (66.65)	862.0 (413.1-1688.0)	1403 (67.29)	955.0 (517.7-718.0)	740 (58.31)	911.95 (486.55-1742.35)	313 (49.06)	886.0 (452.5-1514.0)	242 (48.11)	793.5 (383.0-1483.0)
<b>Female</b>	2394 (38.09)	492 (219-1013)	597 (33.35)	518.2 (235.0-1141.0)	682 (32.71)	542.5 (236.0-1193.0)	529 (41.69)	463.0 (180.6-847.0)	325 (50.94)	528.1 (263.0-935.1)	261 (51.89)	429.0 (169.0-821.5)
<b>Age &lt; 65</b>	3358 (53.43)	746 (307-1424)	723 (40.39)	738.0 (287.0-1553.0)	1100 (52.76)	869.5 (382.25-1575.00)	756 (59.57)	692.0 (278.0-1436.05)	427 (66.93)	674.0 (314.0-1267.6)	352 (69.98)	541.0 (201.5-1051.5)
<b>Age ≥ 65</b>	2927 (46.57)	736 (369-1466)	1067 (59.61)	759.5 (361.0-1544.0)	985 (47.24)	796.0 (412.0-1515.0)	513 (40.43)	636.0 (353.0-1268.0)	211 (33.07)	650.3 (321.0-1269.0)	151 (30.02)	612.8 (321.0-1245.0)
<b>Survived</b>	4508 (71.73)	625 (282-1241)	1318 (73.63)	647.0 (291.0-1287.0)	1500 (71.94)	746.95 (336.5-1349.55)	914 (72.03)	569.0 (249.0-1169.0)	447 (70.06)	572.0 (272.0-1106.0)	329 (65.41)	431.0 (179.3-896.0)
<b>Died</b>	1777 (28.27)	1043 (558-1952)	472 (26.37)	1063.5 (531.6-2000.0)	585 (28.06)	1112.2 (654.0-2000.0)	355 (27.97)	1090.8 (542.0-1951.0)	191 (29.94)	875.9 (515.0-1532.0)	174 (34.59)	833.5 (479.0-1527.0)
<b>CRP - mg/dL</b>	3114	24.22 (8.40-92.80)	897 (28.81)	19.57 (6.56-86.10)	997 (32.02)	26.82 (10.09-111.81)	614 (19.72)	23.01 (8.61-97.15)	327 (10.5)	28.44 (8.50-95.10)	279 (8.96)	22.99 (9.51-69.10)
<b>Male</b>	1940 (62.3)	26.85 (9.76-105.84)	613 (68.34)	21.44 (7.42-91.96)	667 (66.9)	28.73 (11.79-118.60)	361 (58.79)	27.09 (9.81-19.30)	173 (52.91)	31.18 (11.15-93.60)	126 (45.16)	26.07 (9.90-84.02)
<b>Female</b>	1174 (37.7)	19.52 (6.97-76.60)	284 (31.66)	15.13 (4.95-61.70)	330 (33.1)	20.17 (6.97-90.10)	253 (41.21)	18.67 (6.97-73.60)	154 (47.09)	25.44 (7.96-95.60)	153 (54.84)	22.05 (8.98-61.00)
<b>Age &lt; 65</b>	1757 (56.42)	25.30 (8.01-93.40)	407 (45.37)	21.00 (5.64-90.80)	553 (55.47)	27.62 (9.40-106.90)	389 (63.36)	24.97 (8.06-111.64)	216 (66.06)	28.70 (3.14-92.55)	192 (68.82)	22.10 (8.54-63.20)
<b>Age ≥ 65</b>	1357 (43.58)	22.64 (8.98-91.70)	490 (54.63)	19.13 (6.90-84.40)	444 (44.53)	25.70 (10.72-118.75)	225 (36.64)	20.83 (9.71-81.00)	111 (33.94)	25.64 (8.88-96.30)	87 (31.18)	25.15 (11.87-80.90)
<b>Survived</b>	2294 (73.67)	20.81 (6.92-83.60)	679 (75.7)	15.80 (5.28-69.59)	748 (75.03)	24.14 (8.06-98.69)	451 (73.45)	19.51 (7.19-82.33)	229 (70.03)	27.02 (6.91-101.26)	187 (67.03)	21.56 (8.34-64.90)
<b>Died</b>	820 (26.33)	29.70 (14.20-141.20)	218 (24.3)	30.01 (11.97-148.00)	249 (24.97)	31.80 (18.29-151.70)	163 (26.55)	28.88 (15.17-156.90)	98 (29.97)	29.48 (14.28-62.80)	92 (32.97)	25.42 (11.24-88.11)

<b>IL-6 - pg/mL</b>	2237	82.10 (35.50- 174.30)	596 (26.64)	77.45 (33.55- 175.15)	720 (32.19)	91.25 (39.60- 191.25)	472 (21.1)	76.50 (34.55- 156.85)	248 (11.09)	80.20 (36.30- 188.15)	201 (8.99)	85.10 (32.30- 164.00)
<b>Male</b>	1420 (63.48)	90.4 (39.9- 193.7)	408 (68.46)	80.1 (36.1- 191.1)	497 (69.03)	101.1 (44.6- 207.1)	291 (61.65)	80.6 (39.8- 177.6)	120 (48.39)	99.0 (38.0- 215.4)	104 (51.74)	87.0 (35.2- 171.6)
<b>Female</b>	817 (36.52)	71.0 (29.0- 155.3)	188 (31.54)	72.1 (26.5- 150.2)	223 (30.97)	69.5 (31.6- 162.0)	181 (38.35)	72.4 (26.5- 127.2)	128 (51.61)	64.0 (31.7- 170.4)	97 (48.26)	81.1 (29.0- 158.6)
<b>Age &lt; 65</b>	1212 (54.18)	77.2 (32.2- 168.0)	235 (39.43)	68.5 (30.4- 173.7)	386 (53.61)	86.2 (36.9- 175.2)	280 (59.32)	68.3 (30.6- 148.5)	163 (65.73)	80.4 (34.9- 187.4)	148 (73.63)	66.3 (27.5- 148.3)
<b>Age ≥ 65</b>	1025 (45.82)	91.0 (39.4- 189.4)	361 (60.57)	84.0 (36.0- 177.6)	334 (46.39)	96.3 (44.7- 208.8)	192 (40.68)	83.8 (39.1- 161.0)	85 (34.27)	80.0 (43.3- 191.6)	53 (26.37)	137.2 (65.9- 16.3)
<b>Survived</b>	1391 (62.18)	59.0 (24.0- 115.9)	398 (66.78)	57.3 (23.0- 116.5)	451 (62.64)	63.3 (24.0- 127.7)	294 (62.29)	57.0 (24.5- 101.1)	142 (57.26)	59.3 (29.5- 103.7)	106 (52.74)	51.4 (18.2- 96.6)
<b>Died</b>	846 (37.82)	141.3 (75.4- 289.4)	198 (33.22)	136.2 (64.7- 296.0)	269 (37.36)	151.6 (85.6- 341.0)	178 (37.71)	135.9 (76.0- 243.2)	106 (42.74)	148.4 (66.0- 291.5)	95 (47.26)	136.7 (65.8- 245.2)
<b>D-dimer - mg/mL</b>	6471	598.0 (304.0- 1715.0)	1844 (28.5)	766.0 (365.5- 2371.5)	2197 (33.95)	565.0 (299.0- 1357.0)	1286 (19.87)	528.0 (279.0- 1333.0)	624 (9.64)	523.5 (287.0- 1105.5)	520 (8.04)	484.0 (261.0- 1079.0)
<b>Male</b>	3993 (61.71)	569 (290- 1796)	1231 (66.76)	730 (347- 2511)	1467 (66.77)	546 (286- 1411)	744 (57.85)	488 (258- 1303)	310 (49.68)	444 (243-977)	241 (46.35)	488 (250- 1336)
<b>Female</b>	2478 (38.29)	647 (329- 1592)	613 (33.24)	792 (405- 2182)	730 (33.23)	610 (326- 1289)	542 (42.15)	626 (320- 1468)	314 (50.32)	623 (320- 1252)	279 (53.65)	481 (272- 1038)
<b>Age &lt; 65</b>	3441 (53.18)	462 (352- 1071)	739 (40.08)	568 (280- 1591)	1154 (52.53)	446 (253- 1038)	780 (60.65)	426 (244- 1052)	398 (63.78)	441 (250-902)	370 (71.15)	426 (239- 935)
<b>Age ≥ 65</b>	3030 (46.82)	770 (406- 2378)	1105 (59.92)	883 (448- 2846)	1043 (47.47)	727 (394- 2092)	506 (39.35)	694 (379- 2222)	226 (36.22)	710 (364- 2233)	150 (28.85)	647 (371- 1702)
<b>Survived</b>	4621 (71.41)	507 (271- 1109)	1351 (73.26)	643 (319- 1850)	1580 (71.92)	497 (265- 1018)	926 (72.01)	442 (250-977)	427 (68.43)	453 (252-951)	337 (64.81)	427 (237- 872)
<b>Died</b>	1850 (28.59)	912 (449- 3395)	493 (26.74)	1204 (589- 3698)	617 (28.08)	911 (433- 3680)	360 (27.99)	913 (450- 3146)	197 (31.57)	636 (397- 2616)	183 (35.19)	678 (341- 2194)
<b>N/L</b>	8795	5.74 (3.40- 9.93)	2574 (29.27)	6.37 (3.53- 11.33)	2963 (33.69)	5.98 (3.53- 9.97)	1745 (19.84)	5.35 (3.30- 8.99)	832 (9.46)	5.26 (3.21- 8.86)	681 (7.74)	4.77 (3.01- 7.81)
<b>Male</b>	5218 (59.33)	6.40 (3.77- 10.95)	1689 (65.62)	7.11 (3.84- 12.27)	1910 (64.46)	6.46 (3.83- 10.79)	943 (54.04)	6.08 (3.64- 10.29)	384 (46.15)	5.82 (3.48- 10.19)	292 (42.88)	5.45 (3.64- 8.57)
<b>Female</b>	3577 (40.67)	4.94 (3.02- 8.39)	885 (34.38)	5.43 (3.16- 9.68)	1053 (35.54)	5.09 (3.09- 8.53)	802 (45.96)	4.61 (2.91- 7.34)	448 (53.85)	4.89 (3.11- 7.71)	389 (57.12)	4.29 (2.83- 7.38)
<b>Age &lt; 65</b>	4839 (55.02)	5.21 (3.12- 14.61)	1088 (42.27)	5.58 (3.06- 10.07)	1630 (55.01)	5.62 (3.37- 9.62)	1089 (62.41)	5.05 (3.11- 8.40)	551 (66.23)	4.80 (2.99- 7.86)	481 (70.63)	4.45 (2.90- 7.24)
<b>Age ≥ 65</b>	3956 (44.98)	6.43 (3.79- 11.05)	1486 (57.73)	7.04 (3.95- 12.09)	1333 (44.99)	6.33 (3.78- 10.70)	656 (37.59)	5.91 (3.52- 9.96)	281 (33.77)	6.26 (4.04- 10.73)	200 (29.37)	5.63 (3.59- 9.44)
<b>Survived</b>	6537 (74.33)	5.14 (3.10- 8.75)	1933 (75.1)	5.49 (3.20- 9.93)	2221 (74.96)	5.41 (3.25- 9.04)	1317 (75.47)	4.86 (3.02- 7.90)	597 (71.75)	4.75 (2.96- 7.60)	469 (68.87)	4.30 (2.74- 6.57)
<b>Died</b>	2258 (25.67)	8.02 (4.83- 12.88)	641 (24.9)	9.55 (5.80- 16.00)	742 (25.04)	7.77 (4.95- 12.23)	428 (24.53)	7.77 (4.65- 11.80)	235 (28.25)	7.38 (4.11- 12.19)	212 (31.13)	6.23 (4.06- 10.12)
<b>L/CRP</b>	3109	3.98 (1.07- 12.32)	896 (28.82)	4.64 (1.05- 16.17)	995 (32)	3.46 (0.91- 10.16)	613 (19.72)	4.11 (1.10- 12.81)	327 (10.52)	3.14 (1.22- 13.75)	278 (8.94)	4.61 (1.69- 11.61)
<b>Male</b>	1936 (62.27)	3.27 (0.91- 10.09)	612 (68.3)	3.87 (0.88- 12.37)	666 (66.93)	2.89 (0.82- 8.01)	360 (58.73)	3.33 (0.89- 11.34)	173 (52.91)	2.48 (1.02- 10.39)	125 (44.96)	4.26 (1.43- 11.63)
<b>Female</b>	1173 (37.73)	5.40 (1.57- 17.03)	284 (31.7)	6.53 (1.89- 25.90)	329 (33.07)	4.99 (1.26- 16.73)	253 (41.27)	5.45 (1.76- 16.55)	154 (47.09)	4.63 (1.39- 17.54)	153 (55.04)	4.83 (2.09- 11.43)
<b>Age &lt; 65</b>	1753 (56.38)	3.98 (1.05- 13.01)	406 (45.31)	4.66 (0.95- 18.37)	552 (55.48)	3.45 (0.92- 10.82)	388 (63.3)	4.03 (0.98- 14.08)	216 (66.06)	3.13 (1.22- 15.47)	191 (68.71)	5.19 (1.77- 12.43)
<b>Age ≥ 65</b>	1356 (43.62)	3.98 (1.10- 11.38)	490 (54.69)	4.56 (1.19- 15.12)	443 (44.52)	3.46 (0.87- 9.70)	225 (36.7)	4.23 (1.28- 11.75)	111 (33.94)	3.23 (1.21- 10.65)	87 (31.29)	3.98 (1.35- 8.80)
<b>Survived</b>	2290 (73.66)	4.77 (1.26- 16.17)	678 (75.67)	5.71 (1.36- 22.61)	747 (75.08)	4.19 (1.06- 13.20)	450 (73.41)	5.26 (1.38- 16.10)	229 (70.03)	3.37 (1.17- 16.75)	186 (66.91)	5.24 (1.84- 13.10)
<b>Died</b>	819 (26.34)	2.73 (0.68- 6.50)	218 (24.33)	3.03 (0.55- 7.01)	248 (24.92)	2.50 (0.62- 5.21)	163 (26.59)	2.73 (0.67- 5.80)	98 (29.97)	2.44 (1.44- 6.50)	92 (33.09)	3.15 (0.87- 8.16)

**Notes:** (1) The first available laboratory values after presentation were taken into account in this analysis if within 24 hours from presentation, (2) BMI in kg/m<sup>2</sup>; **Abbreviations:** BMI = body mass index, IQR = interquartile range, no. = number, ng = nanogram, mg = milligram, L = liter, dL = deciliter, mL = milliliter, U = unit.

**Supplementary Table S2.** Baseline patient characteristics: Univariate and multivariate logistic regression analysis for the outcome of invasive mechanical ventilation after excluding patients that met the outcome of mortality

Variable	Univariate analysis	Multivariate Analysis			
		Model A N = 6567 OR, 95% CI, <i>p</i> -value	Model B N = 6567 OR, 95% CI, <i>p</i> -value	Model C N = 6567 OR, 95% CI, <i>p</i> -value	Model D N = 6567 OR, 95% CI, <i>p</i> -value
<b>Male sex</b>	1.512 (1.303-1.756) <i>p</i> <0.001	1.407 (1.082-1.829) <i>p</i> = 0.011	1.392 (1.072-1.808) <i>p</i> = 0.013	1.382 (1.065-1.793) <i>p</i> = 0.015	1.395 (1.076-1.809) <i>p</i> = 0.012
<b>Age (All)</b>	1.005 (1.001-1.009) <i>p</i> = 0.009				
<50	1.033 (1.012-1.055) <i>p</i> = 0.002	*	*	*	*
50-64	1.001 (0.973-1.031) <i>p</i> = 0.934	1.345 (0.982-1.840) <i>p</i> = 0.065	1.322 (0.966-1.809) <i>p</i> = 0.081	1.320 (0.965-1.806) <i>p</i> = 0.082	1.340 (0.979-1.834) <i>p</i> = 0.067
65-74	1.047 (0.996-1.101) <i>p</i> = 0.069	1.645 (1.144-2.366) <i>p</i> = 0.007	1.597 (1.111-2.294) <i>p</i> = 0.011	1.588 (1.106-2.280) <i>p</i> = 0.012	1.622 (1.130-2.330) <i>p</i> = 0.009
≥75	0.959 (0.932-0.986) <i>p</i> = 0.003	0.773 (0.481-1.241) <i>p</i> = 0.286	0.738 (0.461-1.182) <i>p</i> = 0.207	0.728 (0.456-1.164) <i>p</i> = 0.185	0.751 (0.470-1.198) <i>p</i> = 0.229
<b>Ethnicity/Race</b>					
Hispanic/Latino	1.329 (1.017-1.736) <i>p</i> = 0.037	1.216 0.759 1.947) <i>p</i> = 0.417	1.208 (0.755-1.934) <i>p</i> = 0.431	1.209 (0.755-1.935) <i>p</i> = 0.429	1.226 (0.766-1.963) <i>p</i> = 0.396
Non-Hispanic Black	0.842 (0.633-1.120) <i>p</i> = 0.237	0.713 (0.432-1.175) <i>p</i> = 0.184	0.718 (0.436-1.183) <i>p</i> = 0.193	0.716 (0.435-1.180) <i>p</i> = 0.190	0.714 (0.433-1.176) <i>p</i> = 0.186
Non-Hispanic White	*	*	*	*	*
Asian	1.829 (1.275-2.622) <i>p</i> = 0.001	0.839 (0.397-1.775) <i>p</i> = 0.647	0.813 (0.385-1.716) <i>p</i> = 0.587	0.799 (0.379-1.686) <i>p</i> = 0.557	0.820 (0.389-1.730) <i>p</i> = 0.602
Other/Unknown	1.474 (1.100-1.976) <i>p</i> = 0.009	1.044 (0.617-1.767) <i>p</i> = 0.872	1.042 (0.616-1.763) <i>p</i> = 0.877	1.040 (0.615-1.759) <i>p</i> = 0.882	1.048 (0.620-1.772) <i>p</i> = 0.861
<b>BMI &lt; 25 (reference)</b>	0.703 (0.596-0.828) <i>p</i> <0.001	*			
25 ≤ BMI < 30	1.036 (0.894-1.201) <i>p</i> = 0.636	1.174 (0.857-1.608) <i>p</i> = 0.318			
30 ≤ BMI < 35	1.008 (0.846-1.201) <i>p</i> = 0.926	1.236 (0.863-1.769) <i>p</i> = 0.247			
35 ≤ BMI < 40	1.167 (0.929-1.465) <i>p</i> = 0.185	0.996 (0.605-1.640) <i>p</i> = 0.987			
BMI ≥ 30	1.289 (1.119-1.486) <i>p</i> <0.001		1.161 (0.899-1.498) <i>p</i> = 0.252		
BMI ≥ 35	1.461 (1.233-1.731) <i>p</i> <0.001			1.173 (0.849-1.621) <i>p</i> = 0.333	
BMI ≥ 40	1.707 (1.367-2.132) <i>p</i> <0.001	1.824 (1.143-2.911) <i>p</i> = 0.012			1.629 (1.078-2.463) <i>p</i> = 0.021
<b>Hypertension</b>	0.971 (0.844-1.117) <i>p</i> = 0.681	1.373 (0.987-1.910) <i>p</i> = 0.060	1.403 (1.010-1.950) <i>p</i> = 0.044	1.405 (1.011-1.952) <i>p</i> = 0.043	1.385 (0.997-1.924) <i>p</i> = 0.052
<b>Hyperlipidemia</b>	0.884 (0.747-1.047) <i>p</i> = 0.154	0.754 (0.544-1.045) <i>p</i> = 0.090	0.746 (0.539-1.033) <i>p</i> = 0.078	0.748 (0.540-1.036) <i>p</i> = 0.081	0.756 (0.546-1.047) <i>p</i> = 0.092
<b>Diabetes</b>	0.851 (0.727-0.997) <i>p</i> = 0.046	0.941 (0.663-1.336) <i>p</i> = 0.734	0.936 (0.660-1.327) <i>p</i> = 0.710	0.935 (0.659-1.325) <i>p</i> = 0.705	0.930 (0.656-1.319) <i>p</i> = 0.684
<b>Heart failure</b>	0.760 (0.577-1.001) <i>p</i> = 0.051	0.900 (0.529-1.531) <i>p</i> = 0.697	0.909 (0.535-1.546) <i>p</i> = 0.725	0.906 (0.533-1.541) <i>p</i> = 0.717	0.893 (0.525-1.519) <i>p</i> = 0.676
CAD	0.707 (0.536-0.933) <i>p</i> = 0.014	0.463 (0.244-0.878) <i>p</i> = 0.018	0.464 (0.244-0.880) <i>p</i> = 0.019	0.464 (0.245-0.881) <i>p</i> = 0.019	0.466 (0.246-0.884) <i>p</i> = 0.020
PAD	0.681 (0.401-1.156) <i>p</i> = 0.155	1.215 (0.514-2.870) <i>p</i> = 0.658	1.207 (0.511-2.849) <i>p</i> = 0.668	1.202 (0.509-2.837) <i>p</i> = 0.675	1.207 (0.511-2.851) <i>p</i> = 0.669
Afib	0.764 (0.553-1.056) <i>p</i> = 0.103	0.894 (0.469-1.704) <i>p</i> = 0.733	0.896 (0.470-1.706) <i>p</i> = 0.738	0.898 (0.472-1.711) <i>p</i> = 0.744	0.897 (0.471-1.709) <i>p</i> = 0.742
<b>Stroke</b>	1.111 (0.962-1.282) <i>p</i> = 0.153	0.577 (0.430-0.776) <i>p</i> <0.001	0.582 (0.433-0.781) <i>p</i> = <0.001	0.582 (0.433-0.782) <i>p</i> <0.001	0.581 (0.432-0.781) <i>p</i> <0.001

CKD	0.943 (0.757-1.173) <i>p</i> = 0.597	1.069 (0.709-1.612) <i>p</i> = 0.750	1.054 (0.699-1.589) <i>p</i> = 0.801	1.046 (0.694-1.576) <i>p</i> = 0.830	1.056 (0.701-1.592) <i>p</i> = 0.794
COPD	0.853 (0.444-1.636) <i>p</i> = 0.632	1.045 (0.369-2.961) <i>p</i> = 0.935	1.010 (0.357-2.861) <i>p</i> = 0.985	1.007 (0.355-2.861) <i>p</i> = 0.990	1.021 (0.361-2.892) <i>p</i> = 0.968
Asthma	0.934 (0.739-1.182) <i>p</i> = 0.571	0.884 (0.580-1.346) <i>p</i> = 0.565	0.916 (0.604-1.390) <i>p</i> = 0.681	0.914 (0.602-1.389) <i>p</i> = 0.674	0.882 (0.580-1.342) <i>p</i> = 0.558
HIV/AIDS	1.172 (0.762-1.803) <i>p</i> = 0.471	1.443 (0.774-2.798) <i>p</i> = 0.278	1.414 (0.730-2.739) <i>p</i> = 0.305	1.414 (0.730-2.739) <i>p</i> = 0.305	1.418 (0.732-2.746) <i>p</i> = 0.301
Liver cirrhosis	0.789 (0.425-1.467) <i>p</i> = 0.454	0.322 (0.078-1.322) <i>p</i> = 0.116	0.318 (0.077-1.306) <i>p</i> = 0.112	0.318 (0.077-1.306) <i>p</i> = 0.112	0.322 (0.078-1.324) <i>p</i> = 0.116

**Notes:** (1) BMI in kg/m<sup>2</sup>, (2) age in years, (3) Model A includes the variables that were found to have significant univariate association and BMI as ordinal variable: BMI < 25, 25 ≤ BMI < 30, 30 ≤ BMI < 35, 35 ≤ BMI < 40, and BMI ≥ 40, (4) Model B includes the variables that were found to have significant univariate association and BMI as dichotomous variable: BMI < 30 and BMI ≥ 30, (5) Model C includes the variables that were found to have significant univariate association and BMI as dichotomous variable: BMI < 35 and BMI ≥ 35, (6) Model D includes the variables that were found to have significant univariate association and BMI as dichotomous variable: BMI < 40 and BMI ≥ 40.

**Abbreviations:** BMI = body mass index, OR = odds ratio, CI = confidence interval, kg = kilogram, m = meter, CAD = coronary artery disease, PAD = peripheral artery disease, Afib = atrial fibrillation, CKD = chronic kidney disease, COPD = chronic obstructive pulmonary disease, HIV = human immunodeficiency, AIDS = acquired immunodeficiency syndrome.

**Supplementary Table S3.** Baseline patient characteristics: Univariate and multivariate logistic regression analysis for the outcome of admission to the intensive care unit after excluding patients that met the outcome of mortality

Variable	Univariate analysis	Multivariate Analysis			
		Model A N = 6567	Model B N = 6567	Model C N = 6567	Model D N = 6567
	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value
Male sex	1.672 (1.497-1.867) <i>p</i> <0.001	1.461 (1.247-1.713) <i>p</i> <0.001	1.456 (1.243-1.706) <i>p</i> <0.001	1.464 (1.250-1.714) <i>p</i> <0.001	1.451 (1.240-1.698) <i>p</i> <0.001
Age (All)	0.998 (0.995-1.001) <i>p</i> = 0.248				
<50	1.037 (1.023-1.052) <i>p</i> <0.001	*	*	*	*
50-64	1.007 (0.986-1.029) <i>p</i> = 0.503	1.175 (0.973-1.419) <i>p</i> = 0.095	1.169 (0.968-1.411) <i>p</i> = 0.105	1.173 (0.971-1.416) <i>p</i> = 0.098	1.175 (0.973-1.419) <i>p</i> = 0.094
65-74	1.001 (0.964-1.040) <i>p</i> = 0.950	0.972 (0.771-1.225) <i>p</i> = 0.808	0.968 (0.769-1.219) <i>p</i> = 0.785	0.975 (0.775-1.227) <i>p</i> = 0.830	0.973 (0.773-1.225) <i>p</i> = 0.818
≥75	0.941 (0.920-0.963) <i>p</i> <0.001	0.616 (0.469-0.808) <i>p</i> <0.001	0.614 (0.469-0.804) <i>p</i> <0.001	0.622 (0.475-0.814) <i>p</i> <0.001	0.616 (0.471-0.805) <i>p</i> <0.001
Ethnicity/Race					
Hispanic/Latino	1.127 (0.929-1.367) <i>p</i> = 0.225	0.095 (0.684-1.197) <i>p</i> = 0.484	0.893 (0.676-1.181) <i>p</i> = 0.429	0.896 (0.678-1.185) <i>p</i> = 0.441	0.901 (0.681-1.191) <i>p</i> = 0.462
Non-Hispanic Black	0.896 (0.733-1.096) <i>p</i> = 0.286	0.712 (0.532-0.953) <i>p</i> = 0.022	0.714 (0.534-0.956) <i>p</i> = 0.024	0.710 (0.531-0.950) <i>p</i> = 0.021	0.714 (0.533-0.955) <i>p</i> = 0.023
Non-Hispanic White	*	*	*	*	*
Asian	1.902 (1.456-2.484) <i>p</i> <0.001	1.698 (1.164-2.475) <i>p</i> = 0.006	1.691 (1.161-2.464) <i>p</i> = 0.006	1.696 (1.165-2.470) <i>p</i> = 0.006	1.690 (1.161-2.460) <i>p</i> = 0.006
Other/Unknown	1.384 (1.119-1.712) <i>p</i> = 0.003	1.025 (0.752-1.396) <i>p</i> = 0.877	1.019 (0.748-1.389) <i>p</i> = 0.903	1.020 (0.749-1.389) <i>p</i> = 0.902	1.021 (0.750-1.391) <i>p</i> = 0.894
BMI < 25 (reference)	0.746 (0.662-0.840) <i>p</i> <0.001	*			
25 ≤ BMI < 30	0.922 (0.826-1.030) <i>p</i> = 0.151	0.903 (0.749-1.088) <i>p</i> = 0.281			
30 ≤ BMI < 35	1.139 (1.003-1.294) <i>p</i> = 0.044	0.949 (0.764-1.179) <i>p</i> = 0.637			

<b>35 ≤ BMI &lt; 40</b>	1.296 (1.096-1.532) <i>p</i> = 0.002	1.100 (0.834-1.451) <i>p</i> = 0.501			
<b>BMI ≥ 30</b>	1.378 (1.240-1.531) <i>p</i> <0.001		1.093 (0.934-1.279) <i>p</i> = 0.269		
<b>BMI ≥ 35</b>	1.438 (1.263-1.636) <i>p</i> <0.001			1.219 (0.999-1.487) <i>p</i> = 0.051	
<b>BMI ≥ 40</b>	1.496 (1.253-1.787) <i>p</i> <0.001	1.226 (0.905-1.662) <i>p</i> = 0.189			1.270 (0.971-1.678) <i>p</i> = 0.092
<b>Hypertension</b>	0.967 (0.872-1.073) <i>p</i> = 0.531	1.143 (0.939-1.390) <i>p</i> = 0.182	1.146 (0.943-1.394) <i>p</i> = 0.172	1.138 (0.936-1.384) <i>p</i> = 0.195	1.142 (0.939-1.389) <i>p</i> = 0.182
<b>Hyperlipidemia</b>	0.926 (0.818-1.047) <i>p</i> = 0.219	0.894 (0.738-1.083) <i>p</i> = 0.251	0.890 (0.735-1.078) <i>p</i> = 0.234	0.890 (0.735-1.077) <i>p</i> = 0.231	0.896 (0.739-1.084) <i>p</i> = 0.259
<b>Diabetes</b>	0.931 (0.827-1.049) <i>p</i> = 0.242	1.255 (1.014-1.554) <i>p</i> = 0.036	1.267 (1.024-1.567) <i>p</i> = 0.029	1.266 (1.024-1.566) <i>p</i> = 0.030	1.263 (1.021-1.562) <i>p</i> = 0.032
<b>Heart failure</b>	0.802 (0.659-0.976) <i>p</i> = 0.028	0.877 (0.650-1.185) <i>p</i> = 0.394	0.889 (0.658-1.199) <i>p</i> = 0.440	0.885 (0.655-1.194) <i>p</i> = 0.423	0.881 (0.653-1.190) <i>p</i> = 0.410
<b>CAD</b>	0.939 (0.781-1.129) <i>p</i> = 0.503	1.041 (0.779-1.391) <i>p</i> = 0.786	1.029 (0.770-1.375) <i>p</i> = 0.846	1.036 (0.775-1.384) <i>p</i> = 0.812	1.030 (0.771-1.377) <i>p</i> = 0.351
<b>PAD</b>	0.757 (0.525-1.092) <i>p</i> = 0.136	0.934 (0.560-1.558) <i>p</i> = 0.795	0.937 (0.562-1.561) <i>p</i> = 0.803	0.934 (0.560-1.557) <i>p</i> = 0.794	0.939 (0.564-1.566) <i>p</i> = 0.810
<b>Afib</b>	1.271 (1.036-1.560) <i>p</i> = 0.022	1.710 (1.248-2.343) <i>p</i> <0.001	1.712 (1.250-2.345) <i>p</i> <0.001	1.704 (1.244-2.335) <i>p</i> <0.001	1.714 (1.251-2.347) <i>p</i> <0.001
<b>Stroke</b>	0.804 (0.720-0.897) <i>p</i> <0.001	0.529 (0.442-0.633) <i>p</i> <0.001	0.527 (0.441-0.631) <i>p</i> <0.001	0.527 (0.441-0.631) <i>p</i> <0.001	0.527 (0.441-0.631) <i>p</i> <0.001
<b>CKD</b>	0.993 (0.846-1.164) <i>p</i> = 0.926	1.120 (0.880-1.424) <i>p</i> = 0.358	1.123 (0.883-1.428) <i>p</i> = 0.346	1.122 (0.882-1.427) <i>p</i> = 0.347	1.121 (0.882-1.426) <i>p</i> = 0.351
<b>COPD</b>	0.710 (0.428-1.176) <i>p</i> = 0.183	0.798 (0.404-1.576) <i>p</i> = 0.516	0.804 (0.407-1.588) <i>p</i> = 0.530	0.807 (0.408-1.593) <i>p</i> = 0.536	0.807 (0.409-1.594) <i>p</i> = 0.538
<b>Asthma</b>	0.792 (0.661-0.948) <i>p</i> = 0.011	0.784 (0.604-1.018) <i>p</i> = 0.068	0.801 (0.618-1.038) <i>p</i> = 0.093	0.788 (0.608-1.022) <i>p</i> = 0.073	0.790 (0.609-1.025) <i>p</i> = 0.076
<b>HIV/AIDS</b>	1.027 (0.734-1.437) <i>p</i> = 0.876	1.179 (0.759-1.831) <i>p</i> = 0.463	1.192 (0.768-1.850) <i>p</i> = 0.434	1.196 (0.771-1.857) <i>p</i> = 0.424	1.188 (0.766-1.843) <i>p</i> = 0.442
<b>Liver cirrhosis</b>	0.661 (0.410-1.064) <i>p</i> = 0.089	0.607 (0.321-1.149) <i>p</i> = 0.126	0.603 (0.319-1.141) <i>p</i> = 0.120	0.606 (0.320-1.145) <i>p</i> = 0.123	0.605 (0.320-1.145) <i>p</i> = 0.123

**Notes:** (1) BMI in kg/m<sup>2</sup>, (2) age in years, (3) Model A includes the variables that were found to have significant univariate association and BMI as ordinal variable: BMI < 25, 25 ≤ BMI < 30, 30 ≤ BMI < 35, 35 ≤ BMI < 40, and BMI ≥ 40, (4) Model B includes the variables that were found to have significant univariate association and BMI as dichotomous variable: BMI < 30 and BMI ≥ 30, (5) Model C includes the variables that were found to have significant univariate association and BMI as dichotomous variable: BMI < 35 and BMI ≥ 35, (6) Model D includes the variables that were found to have significant univariate association and BMI as dichotomous variable: BMI < 40 and BMI ≥ 40.

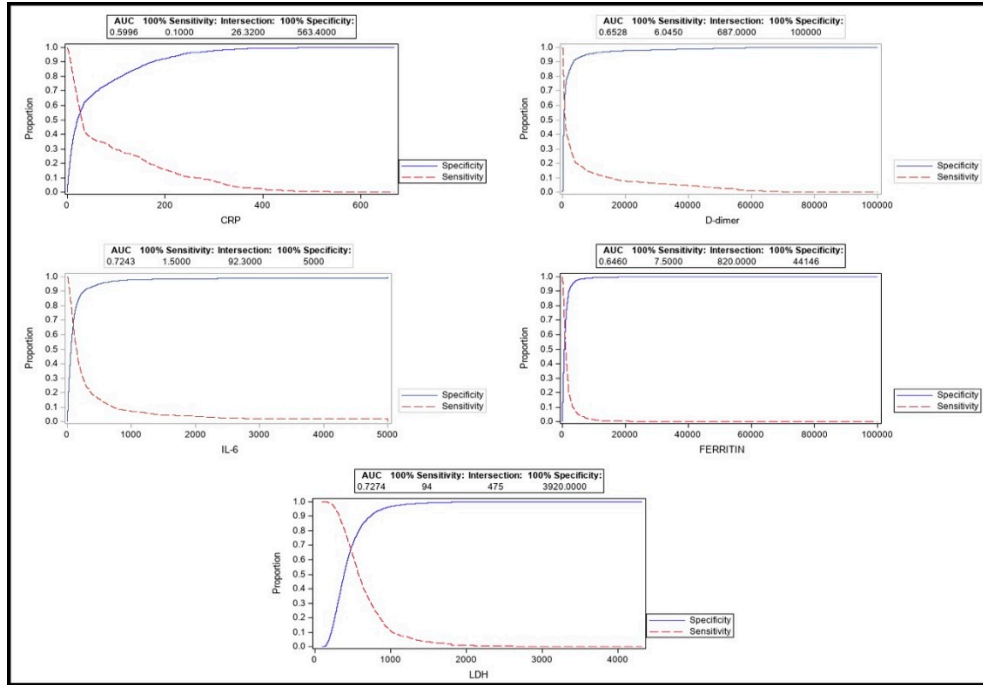
**Abbreviations:** BMI = body mass index, OR = odds ratio, CI = confidence interval, kg = kilogram, m = meter, CAD = coronary artery disease, PAD = peripheral artery disease, Afib = atrial fibrillation, CKD = chronic kidney disease, COPD = chronic obstructive pulmonary disease, HIV = human immunodeficiency, AIDS = acquired immunodeficiency syndrome.

**Supplementary Table S4.** Univariate association of timing of admission with mortality

Quantile	All patients (N = 8833)		
	No.	OR, 95% CI	p-Value
1st quantile (3/3 - 3/23/2020)	883	*	
2nd quantile (3/23 - 3/27/2020)	883	1.163 (0.945-1.431)	0.154
3rd quantile (3/27 - 3/31/2020)	883	1.355 (0.104-1.662)	0.004
4th quantile (3/31 - 4/3/2020)	883	1.418 (1.156-1.739)	<0.001
5th quantile (4/3 - 4/8/2020)	883	1.668 (1.363-2.041)	<0.001
6th quantile (4/8 - 4/12/2020)	883	1.307 (1.064-1.604)	0.011
7th quantile (4/12 - 4/18/2020)	883	1.071 (0.869-1.320)	0.522
8th quantile (4/18 - 4/30/2020)	884	0.731 (0.586-0.910)	0.005
9th quantile (4/30 - 6/2/2020)	884	0.254 (0.192-0.336)	<0.001
10th quantile (6/3 - 10/31/2020)	884	0.151 (0.108-0.210)	<0.001
1st quantile (3/3 - 3/29/2020)	2209	*	

2nd quartile (3/29 - 4/8/2020)	2208	1.335 (1.177-1.515)	<0.001
3rd quartile (4/8 - 4/23/2020)	2208	0.992 (0.871-1.129)	0.902
4th quartile (4/23 - 10/31/2020)	2208	0.241 (0.203-0.286)	<0.001

**Notes:** (1) N = 8833, (2) BMI in kg/m<sup>2</sup>; **Abbreviations:** BMI = body mass index, OR = odds ratio, CI = confidence interval, kg = kilogram, m = meter.



**Figure S1.** Inflammatory markers: Operating characteristics for mortality; **Notes:** LDH in U/L, ferritin in ng/mL, CRP in mg/dL, d-dimer in mg/mL, IL-6 in pg/mL.

**Abbreviations:** AUC = area under the curve, CRP = C-reactive protein, IL-6 = interleukin-6, LDH = lactic dehydrogenase

**Supplementary Table S5.** Inflammatory markers: Subgroup analysis based on BMI of the multivariate logistic regression analysis results for the outcome of mortality

Panel A (N = 5068)					
Variable	Multivariate analysis				
	BMI < 25 N = 1428 (28.18%)	25 ≤ BMI < 30 N = 1703 (33.60%)	30 ≤ BMI < 35 N = 1011 (19.95%)	35 ≤ BMI < 40 N = 516 (10.18%)	BMI ≥ 40 N = 410 (8.09%)
	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value	OR, 95% CI, <i>p</i> -value
Age < 65	0.322 (0.240-0.433) <i>p</i> <0.001	0.384 (0.302-0.489) <i>p</i> <0.001	0.409 (0.299-0.558) <i>p</i> <0.001	0.630 (0.414-0.960) <i>p</i> = 0.031	0.443 (0.270-0.726) <i>p</i> = 0.001
Age ≥ 65	3.102 (2.310-4.166) <i>p</i> <0.001	2.602 (2.047-3.307) <i>p</i> <0.001	2.446 (1.791-3.340) <i>p</i> <0.001	1.587 (1.042-2.417) <i>p</i> = 0.031	2.257 (1.377-3.698) <i>p</i> = 0.001
Male sex	1.008 (0.762-1.333) <i>p</i> = 0.955	1.292 (0.999-1.672) <i>p</i> = 0.051	1.534 (1.112-2.116) <i>p</i> = 0.009	1.211 (0.809-1.812) <i>p</i> = 0.353	1.087 (0.678-1.742) <i>p</i> = 0.728
WBC -10 <sup>3</sup> /μL	1.782 (0.554-1.102) <i>p</i> = 0.160	0.856 (0.594-1.235) <i>p</i> = 0.407	0.780 (0.418-1.457) <i>p</i> = 0.436	0.688 (0.245-1.928) <i>p</i> = 0.477	1.501 (0.673-3.347) <i>p</i> = 0.321
Neutrophils - 10 <sup>3</sup> /μL	1.340 (0.934-1.922) <i>p</i> = 0.112	1.231 (0.844-1.795) <i>p</i> = 0.280	1.366 (0.714-2.615) <i>p</i> = 0.346	1.457 (0.507-4.185) <i>p</i> = 0.484	0.650 (0.284-1.488) <i>p</i> = 0.308
Monocytes - 10 <sup>3</sup> /μL	0.999 (0.609-1.641) <i>p</i> = 0.998	0.523 (0.288-0.949) <i>p</i> = 0.033	0.795 (0.337-1.877) <i>p</i> = 0.600	1.124 (0.288-4.389) <i>p</i> = 0.866	0.492 (0.153-1.577) <i>p</i> = 0.233
Lymphocytes - 10 <sup>3</sup> /μL	1.255 (0.875-1.801) <i>p</i> = 0.217	1.203 (0.828-1.748) <i>p</i> = 0.332	1.331 (0.707-2.505) <i>p</i> = 0.376	1.504 (0.535-4.225) <i>p</i> = 0.439	0.497 (0.174-1.421) <i>p</i> = 0.192
LDH per 100 U/L	1.179 (1.124-1.238) <i>p</i> <0.001	1.239 (1.183-1.297) <i>p</i> <0.001	1.183 (1.118-1.251) <i>p</i> <0.001	1.239 (1.134-1.353) <i>p</i> <0.001	1.258 (1.143-1.385) <i>p</i> <0.001
Ferritin per 200 ng/mL	1.014 (1.000-1.029) <i>p</i> = 0.051	1.005 (0.994-1.015) <i>p</i> = 0.378	1.014 (0.997-1.030) <i>p</i> = 0.099	0.997 (0.975-1.019) <i>p</i> = 0.773	1.037 (0.993-1.083) <i>p</i> = 0.099

Panel B (N = 2461)					
Variable	Multivariate analysis				
	BMI < 25 N = 696 (28.28%) OR, 95% CI, <i>p</i> -value	25 ≤ BMI < 30 N = 785 (31.90%) OR, 95% CI, <i>p</i> -value	30 ≤ BMI < 35 N = 490 (19.91%) OR, 95% CI, <i>p</i> -value	35 ≤ BMI < 40 N = 261 (10.81%) OR, 95% CI, <i>p</i> -value	BMI ≥ 40 N = 224 (9.10%) OR, 95% CI, <i>p</i> -value
Age < 65	0.271 (0.175-0.419) <i>p</i> <0.001	0.314 (0.217-0.456) <i>p</i> <0.001	0.353 (0.220-0.566) <i>p</i> <0.001	0.883 (0.476-1.638) <i>p</i> = 0.692	0.400 (0.194-0.824) <i>p</i> = 0.013
Age ≥ 65	3.696 (2.389-5.718) <i>p</i> <0.001	3.182 (2.193-4.616) <i>p</i> <0.001	2.836 (1.767-4.553) <i>p</i> <0.001	1.133 (0.611-2.102) <i>p</i> = 0.692	2.498 (1.213-5.142) <i>p</i> = 0.013
Male sex	0.978 (0.637-1.500) <i>p</i> = 0.919	1.107 (0.748-1.638) <i>p</i> = 0.612	1.322 (0.807-2.167) <i>p</i> = 0.268	1.033 (0.578-1.846) <i>p</i> = 0.914	0.747 (0.381-1.464) <i>p</i> = 0.395
WBC -10 <sup>3</sup> /μL	0.716 (0.418-1.227) <i>p</i> = 0.224	0.552 (1.308-1.992) <i>p</i> = 0.047	0.524 (0.149-1.841) <i>p</i> = 0.314	1.363 (0.373-4.988) <i>p</i> = 0.640	1.851 (0.716-4.782) <i>p</i> = 0.204
Neutrophils - 10 <sup>3</sup> /μL	1.445 (0.821-2.543) <i>p</i> = 0.203	1.940 (1.063-3.540) <i>p</i> = 0.031	2.021 (0.558-7.316) <i>p</i> = 0.284	0.745 (0.197-2.811) <i>p</i> = 0.664	0.550 (0.208-1.454) <i>p</i> = 0.228
Monocytes - 10 <sup>3</sup> /μL	1.405 (0.719-2.746) <i>p</i> = 0.320	0.957 (0.381-2.406) <i>p</i> = 0.925	1.686 (0.340-8.355) <i>p</i> = 0.522	0.466 (0.077-2.813) <i>p</i> = 0.405	0.141 (0.027-0.741) <i>p</i> = 0.021
Lymphocytes - 10 <sup>3</sup> /μL	1.410 (0.812-2.451) <i>p</i> = 0.223	1.864 (1.032-3.369) <i>p</i> = 0.039	1.997 (0.564-7.068) <i>p</i> = 0.284	0.342 (0.075-1.565) <i>p</i> = 0.167	0.452 (0.144-1.417) <i>p</i> = 0.173
LDH per 100 U/L	1.142 (1.068-1.220) <i>p</i> <0.001	1.256 (1.168-1.351) <i>p</i> <0.001	1.193 (1.100-1.294) <i>p</i> <0.001	1.097 (0.978-1.231) <i>p</i> = 0.115	1.251 (1.101-1.424) <i>p</i> <0.001
Ferritin per 200 ng/mL	1.015 (0.997-1.033) <i>p</i> = 0.105	0.997 (0.984-1.011) <i>p</i> = 0.680	1.046 (1.012-1.080) <i>p</i> = 0.007	1.007 (0.973-1.043) <i>p</i> = 0.681	1.049 (0.986-1.117) <i>p</i> = 0.130
Albumin - g/dL	0.388 (0.275-0.547) <i>p</i> <0.001	0.467 (0.324-0.672) <i>p</i> <0.001	0.642 (0.403-1.021) <i>p</i> = 0.061	0.687 (0.390-1.209) <i>p</i> = 0.193	0.521 (0.268-1.013) <i>p</i> = 0.055
D-dimer per 200 mg/mL	1.004 (1.000-1.008) <i>p</i> = 0.038	1.005 (1.000-1.010) <i>p</i> = 0.031	1.008 (1.002-1.014) <i>p</i> = 0.007	0.997 (0.989-1.006) <i>p</i> = 0.520	0.997 (0.989-1.004) <i>p</i> = 0.381
CRP per 20 mg/dL	1.079 (1.037-1.123) <i>p</i> <0.001	1.037 (0.999-1.076) <i>p</i> = 0.056	1.021 (0.975-1.068) <i>p</i> = 0.377	0.947 (0.881-1.018) <i>p</i> = 0.139	1.023 (0.951-1.100) <i>p</i> = 0.539
IL-6 per 20 pg/mL	*	*	*	*	*
Albumin - g/dL	0.571 (0.456-0.714) <i>p</i> <0.001	0.504 (0.400-0.634) <i>p</i> <0.001	0.617 (0.453-0.842) <i>p</i> = 0.002	0.619 (0.401-0.995) <i>p</i> = 0.030	0.523 (0.316-0.867) <i>p</i> = 0.012
D-dimer per 200 mg/mL	1.003 (1.001-1.006) <i>p</i> = 0.017	1.003 (1.000-1.005) <i>p</i> = 0.058	1.005 (1.002-1.009) <i>p</i> = 0.004	1.001 (0.997-1.005) <i>p</i> = 0.598	1.003 (0.998-1.009) <i>p</i> = 0.189
CRP per 20 mg/dL	*	*	*	*	*
IL-6 per 20 pg/mL	*	*	*	*	*
Panel C (N = 665)					
Variable	Multivariate analysis				
	BMI < 25 N = 164 (24.66%) OR, 95% CI, <i>p</i> -value	25 ≤ BMI < 30 N = 204 (30.68%) OR, 95% CI, <i>p</i> -value	30 ≤ BMI < 35 N = 137 (20.60%) OR, 95% CI, <i>p</i> -value	35 ≤ BMI < 40 N = 78 (11.73%) OR, 95% CI, <i>p</i> -value	BMI ≥ 40 N = 82 (12.33%) OR, 95% CI, <i>p</i> -value
Age < 65	0.565 (0.247-1.288) <i>p</i> = 0.174	0.271 (0.136-0.542) <i>p</i> <0.001	0.550 (0.225-1.343) <i>p</i> = 0.189	1.118 (0.365-3.422) <i>p</i> = 0.845	0.232 (0.066-0.807) <i>p</i> = 0.022
Age ≥ 65	1.771 (0.777-4.040) <i>p</i> = 0.174	3.684 (1.844-7.359) <i>p</i> <0.001	1.819 (0.745-4.445) <i>p</i> = 0.189	0.894 (0.292-2.737) <i>p</i> = 0.845	4.320 (1.240-15.052) <i>p</i> = 0.022
Male sex	1.120 (0.458-2.741) <i>p</i> = 0.804	0.948 (0.438-2.052) <i>p</i> = 0.892	0.779 (0.319-1.901) <i>p</i> = 0.583	1.151 (0.407-3.254) <i>p</i> = 0.791	0.331 (0.089-1.226) <i>p</i> = 0.098
WBC -10 <sup>3</sup> /μL	1.646 (0.293-9.234) <i>p</i> = 0.571	0.327 (0.053-2.030) <i>p</i> = 0.230	0.861 (0.097-7.632) <i>p</i> = 0.893	3.940 (0.154-100.864) <i>p</i> = 0.407	3.871 (0.599-25.011) <i>p</i> = 0.155
Neutrophils - 10 <sup>3</sup> /μL	0.607 (0.104-3.558) <i>p</i> = 0.580	3.276 (0.509-21.106) <i>p</i> = 0.212	1.203 (0.126-11.448) <i>p</i> = 0.872	0.239 (0.008-6.946) <i>p</i> = 0.405	0.242 (0.035-1.665) <i>p</i> = 0.149
Monocytes - 10 <sup>3</sup> /μL	0.817 (0.080-8.376) <i>p</i> = 0.865	0.925 (0.163-22.754) <i>p</i> = 0.603	3.080 (0.217-43.706) <i>p</i> = 0.406	0.288 (0.009-9.734) <i>p</i> = 0.488	0.117 (0.006-2.341) <i>p</i> = 0.160

Lymphocytes - 10 <sup>3</sup> /μL	0.574 (0.100-3.304) <i>p</i> = 0.534	1.795 (0.194-16.565) <i>p</i> = 0.606	1.238 (0.130-11.833) <i>p</i> = 0.853	0.201 (0.005-8.219) <i>p</i> = 0.397	0.076 (0.005-1.263) <i>p</i> = 0.072
LDH per 100 U/L	1.221 (1.021-1.460) <i>p</i> = 0.028	1.250 (1.087-1.437) <i>p</i> = 0.002	1.195 (0.994-1.436) <i>p</i> = 0.058	1.041 (0.868-1.248) <i>p</i> = 0.667	1.117 (0.898-1.388) <i>p</i> = 0.320
Ferritin per 200 ng/mL	1.065 (1.014-1.119) <i>p</i> = 0.012	1.001 (0.968-1.034) <i>p</i> = 0.973	1.088 (1.004-1.178) <i>p</i> = 0.040	1.174 (0.999-1.378) <i>p</i> = 0.051	1.351 (1.016-1.797) <i>p</i> = 0.038
Albumin - g/dL	0.313 (0.134-0.731) <i>p</i> = 0.007	0.938 (0.477-1.845) <i>p</i> = 0.853	0.611 (0.275-1.361) <i>p</i> = 0.228	0.747 (0.260-2.144) <i>p</i> = 0.587	0.606 (0.184-1.994) <i>p</i> = 0.410
D-dimer per 200 mg/mL	0.997 (0.989-1.006) <i>p</i> = 0.535	1.005 (0.998-1.013) <i>p</i> = 0.152	1.018 (1.000-1.036) <i>p</i> = 0.048	0.993 (0.977-1.009) <i>p</i> = 0.364	1.003 (0.994-1.013) <i>p</i> = 0.499
CRP per 20 mg/dL	0.990 (0.911-1.076) <i>p</i> = 0.811	1.022 (0.957-1.091) <i>p</i> = 0.524	1.046 (0.941-1.162) <i>p</i> = 0.407	0.956 (0.786-1.162) <i>p</i> = 0.650	1.022 (0.867-1.203) <i>p</i> = 0.798
IL-6 per 20 pg/mL	1.009 (0.996-1.022) <i>p</i> = 0.179	1.011 (0.998-1.024) <i>p</i> = 0.088	1.037 (0.992-1.085) <i>p</i> = 0.109	1.007 (0.974-1.040) <i>p</i> = 0.693	1.010 (0.987-1.034) <i>p</i> = 0.401

**Notes:** (1) BMI in kg/m<sup>2</sup>, (2) age in years, (3) Panel A refers to a cohort of 5068 patients that had available results for all these markers: WBC, neutrophils, monocytes, lymphocytes, LDH, ferritin, albumin, d-dimer, (4) Panel B refers to a cohort of 2461 patients that had available results for all the markers of Model A and CRP, (5) Panel C refers to a cohort of 665 patients that had available results for all the markers of Model B and IL-6.

**Abbreviations:** BMI = body mass index, g = gram, ng = nanogram, mg = milligram, L = liter, dL = deciliter, mL = milliliter, μL = microliter, U = unit, CRP = C-reactive protein, IL-6 = interleukin-6, LDH = lactic dehydrogenase.