Supplemental Table A. Variable of Interest List

Demographics	Date of Birth						
	Sex						
	Body Mass Index (BMI)						
	Admission Campus						
Clinical data	Discharge status						
	Discharge date						
	Date of death						
	Do not intubate (DNI) status						
	First Vitals						
	Presenting symptoms						
	Symptom duration						
	Comorbidities (diabetes mellitus, cardiovascular, pulmonary, and						
	kidney disease)						
	Oxygen supplementation modality (if any)						
	Oxygen flow requirements.						
	Glasgow coma scale (GCS) < 15 vs = 15 (disorientation or other						
	indication from clinical note)						
	Systolic blood pressure, Respiratory Rate, and GCS were used to						
	calculate the Quick Sequential Organ Failure Assessment (gSOFA).						
Comorbidities	Cardiovascular diseases included:						
	Hypertension						
	Coronary artery disease						
	Heart failure						
	History of cardiac resynchronization device placement or left						
	ventricular assisting device placement						
	Lung diseases included:						
	Asthma						
	Chronic Obstructive Airway Disease						
	Pulmonary hypertension						
	Obstructive sleep apnea						
	Interstitial lung disease						
	Use of home oxygen						
	Use of home continuous positive airway pressure (CPAP) or bilevel						
	positive airway pressure (BiPAP).						
	Chronic kidney disease included:						
	Any stage 1-5 or end stage renal disease requiring renal						
	replacement therapy.						

Supplemental Figure 1. Original cohort characteristics prior to exclusion, N = 352

	WHO ordinal scores <6 N =287	WHO ordinal scores 6-9 N =65	n value
Cumatama	IN ((%)	p- values
Symptoms Cough Dyspnea Rhinorrhea Anosmia	147 (51.2) 150 (52.3) 13 (4.5) 16 (5.6)	39 (60.0) 45 (69.2) 5 (7.7) 3 (4.6)	-
Dysgeusia or hypogeusia	27 (9.4%)	9 (13.8)	
Sore throat Fever Hemoptysis Nausea and/or	15 (5.2) 116 (40.4) 4 (1.4)	4 (6.2) 36 (55.4) 0 (0)	
vomiting Diarrhea Myalgia and/or	66 (23) 54 (18.8)	10 (15.4) 20 (30.8)	
arthritis Rash	47 (16.4) 1 (0.3)	11 (16.9) 0 (0)	
Altered mental status	16 (5.6)	5 (7.7)	
Asymptomatic Comorbidities	54 (18.8)	4 (6.2)	
Cardiovascular	172 (59.9)	41 (63.1)	-
Diabetes mellitus Lung disease Renal Liver HIV Malignancy on	87 (30.3) 56 (19.5) 34 (11.8) 23 (8) 2 (0.7)	24 (36.9) 8 (12.3) 6 (9.2) 10 (15.4) 2 (3.1)	
chemotherapy Solid organ	4 (1.4) 6 (2.1)	1 (1.5) 1 (1.5)	
transplant Dementia Others No known PMH	16 (5.6) 46 (16.0) 35 (12.2)	3 (4.6) 6 (9.2) 8 (12.3)	
Campuses Angleton League City	22 (7.7) 44 (15.3)	4 (6.2) 17 (26.2)	-

Clear Lake	51 (17.8)	9 (13.8)	
Galveston	165 (57.5)	32 (49.2)	
	, ,	, ,	
Non UTMB transfers	4 (1.4)	2 (3.1)	
Missing values	1 (0.3)	1 (1.5)	
Demographics			
Sex			
Male	165 (57.5)	44 (67.7)	0.17
Female	122 (14.5)	21 (32.3)	
Code status			
Comfort care	8 (2.8)	10 (15.4)	-
DNI	18 (6.3)	6 (9.2)	
Full code	261 (90.9)	47 (72.3)	
Missing values	0 (0)	2 (3.1)	

Clinical variables **	Mean	p- values	
BMI	31.4 (7.43)	33.9 (8.86)	0.0408
O2 saturation, %	95.6 (6.58)	93.0 (5.62)	0.00133
NLR	5.69 (5.10)	9.92 (11.2)	0.00505
CRP	4.46 (7.62)	11.5 (10.2)	< 0.001
D-dimer	1.99 (7.86)	3.62 (16.6)	0.449
qSOFA	0.286 (0.475)	0.569 (0.558)	< 0.001
LDH	402 (418)	783 (559)	< 0.001
	N (%)		p- values
Categorical LDH			
Normal value	197 (68.6)	19 (29.2)	< 0.001
1-2 x ULN	77 (2638)	30 (46.2)	
> 2 x ULN	13 (4.5)	14 (21.5)	

^{** 2} subjects in ordinal score 6-9 group had consistently missed values on clinical variables

Supplemental Figure 2. Initial regression model of cohort, N=329

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard	Wald	Pr > Chi	
			_		Sq	
			Error	Chi-		
				Square		
Intercept	1	3.18E+55	1.97092E+47	1.3761	0.2408	
Sex	1	0.918237	6.234510078	0.0022	0.9628	
Age	1	0.985309	1.066838925	0.0521	0.8195	
Sex*Age	1	0.991982	1.028910011	0.0797	0.7777	
Admission Date	1	0.994326	1.004952222	1.3234	0.25	
BMI	1	0.945066	1.119743902	0.2499	0.6171	
Age*BMI	1	1.002062	1.001881768	1.2095	0.2714	
Admission SpO2	1	0.930345	1.052638638	1.9798	0.1594	
Duration Sx	1	0.947432	1.106276642	0.2857	0.593	
Admit NLR	1	1.178686	1.064281581	6.9766	0.0083	
Admit Procalcitonin	1	0.835939	1.566587991	0.1594	0.6897	
Admit D-Dimer	1	0.938943	1.046341715	1.9368	0.164	
Admit LDH	1	2.308505	1.372179017	6.993	0.0082	
Admit CRP	1	1.807058	1.546354152	1.8428	0.1746	
qSOFA	1	2.932338	1.429178781	9.0749	0.0026	

^{*}Note that complete case exclusion not applied for this table

Supplemental Figure 3. Stratified BMI Analysis

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard	Wald	Pr > Chi Sq	
			Error	Chi-		
				Square		
Intercept	1	0.000554	6.30599	16.5798	<.0001	
Age	1	1.032931	1.019284	2.8751	0.09	
Admit NLR	1	1.190294	1.09319	3.8177	0.0507	
Admit LDH	1	5.452641	1.594085	13.2276	0.0003	

Lower BMI Analysis (BMI <30)

Analysis of Maximum Likelihood Estimates						
Parameter	DF	DF Estimate	Standard	Wald	Pr > Chi Sq	
			Error	Chi-		
				Square		
Intercept	1	7.73534434	204.95696	0.1477	0.7007	
Sex	1	0.32184024	1.6594729	5.0094	0.0252	
Age	1	1.05812661	1.0196914	8.401	0.0038	
BMI	1	1.06822672	1.0338607	3.9238	0.0476	
Admit SpO2	1	0.90429468	1.054746	3.5653	0.059	
Admit NLR	1	1.16602438	1.0778842	4.1962	0.0405	
Admit D-Dimer	1	0.65422758	1.215311	4.736	0.0295	
Admit LDH	1	2.40873087	1.4663847	5.2744	0.0216	
Admit CRP	1	2.86967849	1.708473	3.8735	0.0491	

Higher BMI Analysis (BMI => 30)

Supplemental Figure 4. DNI Sensitivity Analysis

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard	Wald	Pr > Chi Sq	
			Error	Chi- Square		
Intercept	1	77.2154835	175.3002	0.7078	0.4002	
Age	1	0.97384804	1.051061	0.2828	0.5949	
BMI	1	0.93304672	1.104839	0.4836	0.4868	
Age*BMI	1	1.00215231	1.001561	1.8954	0.1686	
Admit SpO2	1	0.92154838	1.043312	3.7208	0.0537	
Admit NLR	1	1.07422557	1.026238	7.66	0.0056	
Admit D- Dimer	1	0.98049278	1.01349	2.1498	0.1426	
Admit LDH	1	3.46668914	1.288785	24.006	<.0001	
qSOFA	1	2.37049786	1.370533	7.5001	0.0062	