

Supplementary Table 3. Feature Importance to the Oxygen Score (Gradient Boosting Machine Learning Model) for the Prediction of Patients Requiring Oxygen Supplement

Feature	Relative importance
Age	693.250
ADL score 0	331.632
No dyspnea	274.438
Initial body temperature	171.588
Dyspnea	106.056
No diabetes	24.562
No hypertension	22.922
Chronic kidney disease	20.231
Male	19.708
Female	17.010
ADL score 2	16.812
No chronic kidney disease	15.802
No chronic cardiac disease	14.171
No headache	13.771
No sputum	11.044
No nausea or vomiting	10.524
No heart failure	10.145
No cough	9.857
No smoking	9.472
Headache	9.043
Diabetes	8.600
No chest pain	8.589
No diarrhea	8.382
Nausea or vomiting	8.114
No sore throat	7.869
No chronic liver disease	7.447
Chest pain	7.075
Hypertension	6.961
No asthma	6.723
Not fatigued	6.712
Cough	6.426
No dementia	6.183
Chronic cardiac disease	6.072
No myalgia	5.934
No hemoptysis	5.637
Diarrhea	5.291
Asthma	5.072
Current smoker	4.773
Sore throat	4.640
No cancer	4.378
No rhinorrhea	4.261
Chronic liver disease	3.711
Ex-smoker	3.658
No COPD	3.564
COPD	3.375
Sputum	3.267
Fatigued	3.176
Myalgia	3.147
ADL score 1	2.150
Dementia	2.053
Cancer	1.976
Heart failure	1.370
No autoimmune disease	1.358
Rhinorrhea	1.237
No chronic neurological disorder	1.145
Altered mentality	1.090
Autoimmune disease	0.673
Anosmia	0.601
Hemoptysis	0.580
Chronic neurological disorder	0.542
Chronic hematological disorder	0.370
No arthralgia	0.294
No chronic hematological disorder	0.292
Normal mentality	0.129
Arthralgia	0.064

ADL, activities of daily living; COPD, chronic obstructive pulmonary disease. ADL score is expressed from 0 to 2, with 0 being independent, 1 being partially dependent, and 2 being total dependent on others.