

Supplementary Table 1. Characteristics of 10 most common phenotypes arranged in order of descending frequency

	BF	AF	B	F	BD	EF	E	A	CF	X
N	23	15	13	12	10	8	7	6	6	6
Age	74±10	73±10	72±11	73±10	67±6	70±10	73±13	74±6	74±15	65±11
Male (%)	56.5	60.0	69.2	58.3	60.0	50.0	57.1	50.0	66.7	50.0
Freq. (hospital) exac. (%)	43.5	13.3	38.5	33.3	50.0	25.0	42.9	16.7	16.7	16.7
Current smoker (%)	21.7	20.0	30.8	50.0	30.0	12.5	42.9	66.7	16.7	16.7
FEV ₁ (% predicted)	52±21	46±19	42±12	36±13	33±12	39±11	43±22	50±16	51±26	43±18
TLCO (% predicted)	34±13	38±10	37±10	35±15	29±10	41±18	43±22	46±22	35±18	34±19
MRC-D	4[3-5]	3[3-5]	4[3-5]	4[4-5]	5[5-5]	3.5[2.5-5]	5[3-5]	2[2-4]	3.5[3-4]	3.5[3-5]
Days since symptom onset	3[1-7]	7[4-14]	7[4-14]	3[2-4]	5[3-7]	14[7-18]	4[2-7]	4[2-10]	6[2-7]	3.5[2-4]
Prior contact with HCP (%)	43.4	73.3	61.5	41.7	80.0	62.5	71.4	83.3	100	66.7
Pre-hospital antibiotics (%)	21.7	80.0	69.2	25.0	30.0	50.0	42.9	16.7	66.7	16.7
Pre-hospital OCS (%)	26.1	4.7	23.1	25.0	20.0	12.5	14.3	33.3	50.0	16.7
CAT total	25[22-30]	31[25-34]	25[22-33]	29[26-31]	35[33-37]	29[26-33]	32[23-33]	31[26-37]	30[28-37]	31[30-32]
HADS total	12[8-18]	14[11-21]	15[10-18]	16[12-19]	29[19-32]	22[19-23]	10[9-17]	20[14-22]	12.5[7-14]	6.5[6-9]
BAP-65 Class	3[2-3]	3[2-3]	2[2-3]	3[2-3]	3[2-3]	2[1-3]	3[2-3]	3[2-3]	2[2-3]	2[2-3]
Neutrophils	9.4±5	8.7±3	12.4±10	7.6±3.2	10.9±5.7	6.0±1.5	6.6±2	8.0±2.6	11.4±2.5	7.6±2
Eosinophils	0.03	0.01	0.01	0.1	0.04	0.43	0.33	0.05	0.09	0.07
	[0.0-0.1]	[0.0-0.1]	[0-0.1]	[0.0-0.15]	[0.0-0.09]	[0.35-0.8]	[0.3-0.8]	[0.0-0.2]	[0.0-0.16]	[0.01-0.1]
CRP (mg/dL)	49	34	108	5	51	3	2	42	113	8
	[30-107]	[8-64]	[52-176]	[2-11]	[42-54]	[2-4]	[1-4]	[39-45]	[67-160]	[4-12]
pH	7.38±0.1	7.31±0.1	7.35±0.1	7.33±0.1	7.37±0.1	7.31±0.1	7.29±0.0	7.39±0.0	7.4±0.0	7.36±0.1
P _v CO ₂ (mmHg)	48±12	50±10	45±7	54±14	50±10	58±12	59±14	43±6	42±6	51±20
NT-proBNP (ng/L)	618	1190	159	1090	108	357	142	116	416	139
	[387-2242]	[439-1503]	[113-195]	[341-2342]	[101-127]	[263-4820]	[111-157]	[63-191]	[350-2580]	[88-162]
Hs-TnI (ng/L)	18[7-38]	23[8-310]	5[3-10]	13[6-23]	7[4-8]	12[6-49]	5[3-5]	6[4-13]	34[4-74]	6[5-10]
NIV (ED) %	8.7	20.0	23.1	41.7	20.0	50.0	42.9	16.7	0.0	16.7
NIV (ward) %	4.3	26.7	7.7	41.7	0.0	12.5	14.3	16.7	0.0	16.7
Mechanical ventilation (%)	8.7	6.7	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0
Length of stay	5[4-7]	9[6-13]	5[3-8]	7[5-8]	6[4-11]	4[3-5]	3[3-4]	6[4-9]	6[5-7]	7[4-13]
Mortality at 12 months (%)	21.7	13.3	23.1	33.3	20.0	25.0	0.0	0.0	0.0	16.7

*Data shown as (%), mean±SD, median[IQR]