

Supplementary Table 3. Large study patient reports of COVID-19 from which individual patient data could not be collected (n = 1689).

First Author [reference]	Neurological Diagnosis	Age (years)	Sex	COVID-19 severity	Comorbidities	n
Cagnazzo [282]	Stroke	71 [59–79] Median [IQR]	61 Male 30 Female 2 non-disclosed	Asymptomatic (n=32) Moderate-severe (n=61)	Hypertension (n=62) Diabetes (n=20) Hypercholesterolemia (n=28) Smoking (n=21) Kidney disease (n=4)	93
Ji [283]	Stroke	66.4 ± 12.1 <60 years 51.9 ± 5.4 ≥ 60 years 72.5 ± 8.3 Non-severe COVID-19 62.4 ± 12.0 Severe COVID-19 74.3 ± 8.0 Mean ± SD	<60 years 3 Male 5 Female ≥ 60 years 12 Male 7 Female Non-severe COVID-19 7 Male 11 Female Severe COVID-19 3 Male 6 Female	Non-severe (n=18) Severe (n=9)	<60 years Hypertension (n=3) Diabetes (n=2) History of smoking (n=1) ≥ 60 years Hypertension (n=10) Diabetes (n=5) Cardiovascular disease (n=2) History of smoking (n=7) Non-severe COVID-19 Hypertension (n=5) Diabetes (n=5) History of smoking (n=6) Severe COVID-19 Hypertension (n=8) Diabetes (n=2) Cardiovascular disease (n=2) History of smoking (n=2)	27
Kihira [284]	Stroke	65.6 ± 13.2 Mean ± SD	77 Male 49 Female	Data not provided	Cardiovascular risk factors* (n=218) Atrial Fibrillation (n=19) Pulmonary diseases^ (n=41) Smoking (n=41)	126
Lechien [285]	Smell disorder (n=357) Taste disorder (n=342)	36.9 ± 11.4 [19-77] Mean ± SD [range]	154 Male 263 Female	Mild-moderate	Smoking (n=56) Allergies (n=85)	417
Mowla [286]	Cerebral venous sinus thrombosis	50.9 ± 11.2	5 Male 8 Female	Asymptomatic (n=1) Mild-moderate (n=9) Severe (n=1)	Not provided	13

Porta-Etessam [287]	Headache	43.4 ± 11.4 mean ± SD	21 Male 91 Female	Mild-moderate	Hypertension (n=5) Dyslipidemia (n=15)	112
Qiu [288]	Children Smell disorder (n=3) Smell & taste disorder (n=7)	Children 16.6 ± 0.7 [16.3-17]	Children 6 Male 4 Female	Children Mild (n=6) Moderate (n=4)	Not provided	171
	Adults Smell disorder (n=61) Taste disorder (n=7) Smell & taste disorder (n=93)	Adults 38.8 ± 17.6 [23-53] Median ± SD [IQR]	Adults 92 Male 69 Female	Adults Mild (n=76) Moderate (n=40) Severe (n=33) Critical (n=10)		
Scullen^a [200]	Encephalopathy (n=20) Acute necrotizing Encephalopathy (n=2) Vasculopathy (n=5)	59.8 [35-91] Mean [range]	14 Male 13 Female	Critical	Hypertension (n=17) Diabetes (n=14) Obesity (n=7) Kidney disease (n=6) Cardiovascular disease (n=7)	27
Trifan^b [80]	Stroke	64 [18]	44 Male 39 Female	Male Asymptomatic (n=3) Mild-moderate (n=9) Severe (n=32) Critical (n=27)	Male Cardiovascular risk factors* (n=83) Pulmonary Diseases^ (n=17) Atrial fibrillation (n=5) Kidney disease (n=10) Chronic Obstructive Pulmonary Disease or Asthma (n=2)	83
		Male 63 [17]		Female Asymptomatic (n=3) Mild-moderate (n=17) Severe (n=19) Critical (n=16)		
		Female 68 [17] Median [IQR]		Female Cardiovascular risk factors* (n=59) Pulmonary diseases^ (n=10) Atrial fibrillation (n=3) Kidney disease (n=12) Chronic Obstructive Pulmonary Disease or Asthma (n=2)		
Uginet [289]	Encephalopathy	64.6 ± 12.1 Mild COVID-19 63.8 ± 15.0	Mild COVID-19 17 Male	Mild (n=17) Severe (n=14)	Mild COVID-19 Smoking (n=1) Cardiovascular risk factors* (n=12)	31

		Severe COVID-19 65.6 ± 7.8 Mean ± SD	Severe COVID-19 12 Male 2 Female		Chronic cardiac disease (n=4) Pulmonary diseases^ (n=4) Dementia (n=3) Severe COVID-19 Smoking (n=2) Cardiovascular risk factors* (n=10) Chronic cardiac disease (n=4) Pulmonary diseases^ (n=3)	
Vaira [290]	Smell disorder (n=55) Taste disorder (n=76)	49.6 ± 8.5 [43–55.2] Mean ± SD [IQR]	53 Male 53 Female	Moderate	Not provided	106
Vaira [291]	Smell disorder (n=84) Taste disorder (n=56)	51.2 ± 8.8 [46.7–58.0] Mean ± SD [IQR]	68 Male 70 Female	Mild-moderate (n=106) Severe-critical (n=32)	Diabetes (n=15) Obesity (n=40) Cardiovascular disease (n=37) Pulmonary diseases^ (n=21)	138
Vaira [292]	Smell disorder (n=225) Taste disorder (n=234)	48.5 ± 12.8 [23–88] Mean ± SD [range]	146 Male 199 Female	Asymptomatic (n=10) Smell disorder Mild (n=122), Moderate (n=77) Severe (n=36) Taste disorder Mild (n=118) Moderate (n=82) Severe (n=34)	Not provided	345

^aData from three case reports given as example were included in the statistical analysis

^bData from ten case reports given as example were included in the statistical analysis

*Cardiovascular risk factors: hypertension; diabetes, dyslipidemia, obstructive sleep apnea

^Pulmonary diseases: coronary artery disease or congestive heart failure

Abbreviations: Standard deviation (SD); Interquartile range (IQR)