

Supplementary Materials:

Table S1. Time dependent Epidemiology of PCOP.

Reference			Acute COVID				post-COVID		Prevalence, %				
Reference	Type	Risk of bias score	Time period		Country	Severity	Sample size, pts	Follow-up days	V DLCO LLN	Dyspnea	Cough	CT abnormalities	
			start	end								All	GGO Consolidation Reticulation
[1]	Letter	8	02/20	03/20	CN	moderate	24	34	30.4	-	-	-	
[2]	Letter	7	03/20	04/20	FR	moderate-to-critical	50	30	-	-	-	66.0	
[3]	Article	8	01/20	03/20	CN	severe	40	30	42.5	-	-	37.5	
[1]	Letter	8	02/20	03/20	CN	moderate-to-critical	110	34	47.2	-	-	-	
[1]	Letter	8	02/20	03/20	CN	severe	67	34	42.4	-	-	-	
[4]	Article	7	02/20	05/20	UK	moderate-to-critical	77	42	-	-	-	76.6	
[5]	Article	7	03/20	04/20	NL	severe	28	42	55.6		-		
[3]	Article	8	01/20	03/20	CN	severe-to-critical	57	30	52.6	7.0	10.5	54.4	
[5]	Article	7	03/20	04/20	NL	severe-to-critical	101	42	71.7	23.8	-		
[6]	Article	7	02/20	07/20	NL	severe-to-critical	92	42	63.0	-	-	78.7	
[3]	Article	8	01/20	03/20	CN	critical	17	30	76.5	-	-	94.1	
[1]	Letter	8	02/20	03/20	CN	critical	19	34	84.2	-	-	-	
[5]	Article	7	03/20	04/20	NL	critical	73	42	78.5	-	-	-	

Reference			Acute COVID				post-COVID		Prevalence, %				
Reference	Type	Risk of bias score	Time period		Country	Severity	Sample size, pts	Follow-up days	V DLCO LLN	Dyspnea	Cough	CT abnormalities	
			start	end								All	GGO Consolidation Reticulation
[7]	Article	7	01/20	02/20	CN	moderate	41	87	42.0	7.0	-	63.8	
[8]	Article	8	02/20	04/20	CN	moderate	63	90	-	0.0	7.9	49.2	[1.6 - -]
[9]	Article	9	01/20	02/20	CN	moderate-to-severe	55	93	16.4	14.6	1.8	71.9	[7.3 - -]
[10]	Letter	8	03/20	04/20	ES	moderate-to-severe	172	102	57.0	55.0	18.0	54.4	
[11]	Article	7	02/20	08/20	FR	moderate-to-critical	137	90	43.0	-	-	75.0	[75.0 - 30.0]
[12]	Article	7	02/20	03/20	CN	moderate-to-critical	83	90	55.0	81.0	-	78.0	[78.0 - 33.0]
[13]	Article	8	03/20	06/20	UK	moderate-to-critical	80	105	-	46.0	21.0	56.0	[47.9 6.8 14.0]
[8]	Article	8	02/20	04/20	CN	severe	378	90	-	3.7	7.9	36.8	[.5 - -]
[14]	Article	8	03/20	05/20	UK	severe-to-critical	58	69	-	64.3	60.3	-	
[15]	Article	8	03/20	06/20	IR	severe-to-critical	101	82	-	-	-	72.0	
[7]	Article	7	01/20	02/20	CN	severe-to-critical	40	87	68.0	23.0	-	72.0	
[6]	Article	7	02/20	07/20	NL	severe-to-critical	92	90	51.0	-	-	62.0	[57.5 14.9 33.3]
[16]	Article	8	03/20	06/20	CA	severe-to-critical	73	91	59.0	14.0	-	-	
[17]	Article	8	05/20	07/20	ES	severe-to-critical	313	63	54.6	51.1	-	-	
[18]	Article	7	03/20	08/20	ES	critical	94	90	82.0	-	-	56.6	[29.3 17.2 43.4]
[8]	Article	8	02/20	04/20	CN	critical	61	90	-	4.9	8.2	45.9	[1.6 - -]

Reference			Acute COVID				post-COVID		Prevalence, %				
Reference	Type	Risk of bias score	Time period		Country	Severity	Sample size, pts	Follow-up days	V _{DLCO LLN}	Dyspnea	Cough	CT abnormalities	
			start	end								All	GGO Consolidation Reticulation
[19]	Article	7	01/20	09/20	CN	moderate	31	180	-	-	-	3.4	[3.0 - .0]
[20]	Article	8	01/20	05/20	CN	moderate	439	186	22.0	26.0	-	52.0	[41.0 .0 .0]
[21]	Article	8	01/20	05/20	CN	moderate	318	185	21.0	25.0	-	100.0	[85.0 .0 .0]
[19]	Article	7	01/20	09/20	CN	moderate-to-severe	54	180	32.1	18.5	5.6	-	
[22]	Article	6	01/20	10/20	CN	moderate-to-critical	50	180	-	2.0	10.0	91.0	[42.0 20.0 11.0]
[12]	Article	7	02/20	03/20	CN	moderate-to-critical	83	180	54.0	30.0	-	46.0	[46.0 - 16.0]
[23]	Article	6	12/19	02/20	CN	moderate-to-critical	114	175	26.0	14.0	10.0	26.0	[62.0 24.0 14.0]
[24]	Article	7	12/19	04/20	CN	moderate-to-critical	141	175	-	-	-	54.6	[20.6 5.7 28.4]
[19]	Article	7	01/20	09/20	CN	severe	23	180	-	-	-	52.6	[47.0 - 16.0]
[25]	Article	6	03/20	07/20	TR	severe	60	180	-	-	-	65.0	
[26]	Article	7	03/20	05/20	IT	moderate-to-critical	118	180	-	42.0	24.0	72.0	[42.0 2.0 -]
[27]	Letter	6	03/20	06/20	IT	severe	86	180	20.0			.0	
[17]	Article	8	05/20	07/20	ES	severe	147	191				52.4	[36.7 - 10.9]
[28]	Article	8	03/20	06/20	IT	moderate-to-critical	219	120	51.6	5.5	2.5	-	
[20]	Article	8	01/20	05/20	CN	severe	1172	186	29.0	26.0	-	54.0	[48.0 2.0 1.0]
[29]	Article	6	03/20	06/20	IT	severe	71	180	58.0	33.0	-	25.0	[16.0 .0 19.0]

Reference			Acute COVID				post-COVID		Prevalence, %				
Reference	Type	Risk of bias score	Time period		Country	Severity	Sample size, pts	Follow-up days	V DLCO LLN	Dyspnea	Cough	CT abnormalities	
			start	end								All	GGO Consolidation Reticulation
[21]	Article	8	01/20	05/20	CN	severe	864	185	26.0	25.0	-	100.0	[93.0 7.0 .0]
[30]	Article	8	02/20	03/20	CN	severe-to-critical	41	210	-	-	-	-	[12.0 10.0 12.0]
[14]	Article	8	03/20	05/20	UK	severe-to-critical	46	190	52.2	56.5	56.5	-	
[6]	Article	7	02/20	07/20	NL	severe-to-critical	92	180	46.0	-	-	-	[31.0 6.9 22.5]
[16]	Article	8	03/20	06/20	CA	severe-to-critical	73	189	46.0	19.0	-	-	[36.0 - -]
[27]	Letter	6	03/20	06/20	IT	severe-to-critical	135	180	34.0			.0	
[17]	Article	8	05/20	07/20	ES	severe-to-critical	226	191	47.0	35.5	-	65.9	[47.8 - 19.0]
[29]	Article	6	03/20	06/20	IT	severe-to-critical	312	180	46.0	31.0	-	24.7	[9.0 2.0 19.0]
[18]	Article	7	03/20	08/20	ES	critical	74	180	45.9	-	-	40.7	[40.7 14.8 42.0]
[27]	Letter	6	03/20	06/20	IT	critical	29	180	8.0			.0	
[27]	Letter	6	03/20	06/20	IT	critical	20	180	7.0	-	-	-	
[17]	Article	8	05/20	07/20	ES	critical	79	191				91.1	[68.4 - 34.2]
[20]	Article	8	01/20	05/20	CN	critical	122	186	56.0	36.0	-	54.0	[45.0 .0 1.0]
[29]	Article	6	03/20	06/20	IT	critical	144	180	36.0	32.0	-	24.0	[7.0 1.0 19.0]
[29]	Article	6	03/20	06/20	IT	critical	97	180	54.0	31.0	-	44.0	[12.0 8.0 34.0]
[21]	Article	8	01/20	05/20	CN	critical	94	185	57.0	40.0	-	100.0	[82.0 .0 3.0]

Reference			Acute COVID				post-COVID		Prevalence, %				
Reference	Type	Risk of bias score	Time period		Country	Severity	Sample size, pts	Follow-up days	V _{DLC} LLN	Dyspnea	Cough	CT abnormalities	
			start	end								All	GGO Consolidation Reticulation
[31]	Article	8	01/20	04/20	CN	moderate	104	314.50	24.2	32.7	-	56.6	[13.3 - -]
[32]	Article	9	01/20	02/20	CN	moderate	51	345	20.0	19.6	-	-	[35.3 .0 2.0]
[33]	Article	9	01/20	03/20	CN	moderate	9	365	11.0	-	-	-	
[8]	Article	8	02/20	04/20	CN	moderate	52	365	-	3.8	1.9	36.8	[.0 - -]
[21]	Article	8	01/20	05/20	CN	moderate	318	349	23.0	25.0	-	39.0	[39.0 .0 .0]
[34]	Article	8	02/20	03/20	CN	moderate-to-severe	118	349	25.7	-	-	47.4	[16.2 - -]
[33]	Article	9	01/20	03/20	CN	moderate-to-severe	119	365	39.0	-	-	-	
[12]	Article	7	02/20	03/20	CN	moderate-to-critical	83	270	-	22.0	-	24.0	[24.0 - 4.0]
[12]	Article	7	02/20	03/20	CN	moderate-to-critical	83	360	33.0	5.0	-	23.0	[23.0 - 4.0]
[13]	Article	8	03/20	06/20	UK	moderate-to-critical	80	364	-	19.0	13.0	19.0	
[24]	Article	7	12/19	04/20	CN	moderate-to-critical	141	351	-	-	-	52.0	
[31]	Article	8	01/20	04/20	CN	severe	16	314.50	37.5	75.0	-	57.1	[35.7 - -]
[32]	Article	9	01/20	02/20	CN	moderate-to-critical	94	345	14.3	23.4	72.3	71.3	[40.4 2.1 4.3]
[33]	Article	9	01/20	03/20	CN	severe	82	365	38.0	-	-	-	
[8]	Article	8	02/20	04/20	CN	severe	379	365	-	1.8	2.9	36.8	[.0 - -]
[21]	Article	8	01/20	05/20	CN	severe	864	349	31.0	31.0	-	40.0	[27.0 .0 2.0]

Reference			Acute COVID				post-COVID		Prevalence, %				
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			start	end								All	GGO Consolidation Reticulation
[35]	Article	7	03/20	06/20	IT	severe	61	365	53.0	43.0	-	46.0	[9.0 4.0 27.0]
[36]	Article	8	03/20	06/20	IT	moderate-to-critical	200	366	49.0	8.1	11.2	-	
[32]	Article	9	01/20	02/20	CN	severe-to-critical	43	345	8.6	27.9	-	-	[46.5 4.7 7.0]
[37]	Article	8	01/20	03/20	CN	severe-to-critical	209	365	-	-	-	25.4	[24.9 10.7 19.6]
[18]	Article	7	03/20	08/20	ES	critical	37	360	29.7	12.8	-	48.8	[65.9 7.3 53.7]
[33]	Article	9	01/20	03/20	CN	critical	28	365	54.0	-	-	-	
[8]	Article	8	02/20	04/20	CN	critical	55	365	-	1.8	1.8	45.9	[.0 - -]
[21]	Article	8	01/20	05/20	CN	critical	94	349	54.0	39.0	-	87.0	[76.0 3.0 8.0]
[35]	Article	7	03/20	06/20	IT	critical	136	365	29.0	36.0	-	65.0	[28.0 3.0 32.0]
[35]	Article	7	03/20	06/20	IT	critical	90	365	49.0	40.0	-	80.0	[24.0 2.0 49.0]

The most part of studies was taken from Lee et al. review [38]. Additionally, studies published in 2020-2021 were located using PubMed. The reliability of the studies was assessed according to the Preferred Reporting Items of Systematic reviews and MetaAnalyses (PRISMA) [39]. Studies with scores below 6 were not included, the reliability of studies with scores of 6 was considered as low, 7-8 — medium, and 9-10 — high reliability. Data on the specified variables were extracted from the selected studies. The extracted data included the recruitment period, demographics of the included patients, data on the severity of acute COVID-19; sample size, follow-up interval after acute COVID-19; data on the prevalence of DLCO impairment using a cutoff of 80% of the predicted values or LLN, prevalence of dyspnea and cough; the proportion of patients with any residual abnormal findings on follow-up CT, prevalence of GGO, consolidation and reticulation among these patients. Disease severity was determined according to the current global consensus guidelines and a few modifications per Lee et al. [38,40] due to the lack of universal disease severity criteria. Patients requiring supplemental oxygen therapy were considered as severe, and requiring intensive care unit admission and/or mechanical ventilation were considered as having critical COVID-19. Low, moderate, and high risks of bias are indicated by scores of 9–10, 7–8, and ≤6, respectively [41].

DLCO = diffusing capacity for carbon monoxide, LLN = lower limit of normal, CT = computed tomography, CGO = ground-glass opacity.

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