

## Background Summary

# Clinical characteristics of patients with severe COVID-19

This background summary includes one systematic review and 12 single studies reporting on clinical characteristics of patients with severe COVID-19. The systematic review (Tahvildari 2020), published on May 15, 2020, summarizes 80 single studies. The 12 single studies reported in the table below were published after Tahvildari et al. executed their search (April 24, 2020).



## Summary table

This table shows the most commonly reported clinical characteristics. More data and full citations can be found in the accompanying spreadsheet.

		EVIDENCE SYNTHESIS	SINGLE STUDIES PUBLISHED AFTER TAHVILDARI 2020 SEARCH (APRIL 24, 2020) (N=12)													
	Study ID	Tahvildari 2020	Total single studies reporting	Khamis 2020	Palmieri 2020	Shi 2020	Yang 2020	Zhang 2020	Buckner 2020	Lv 2020	Hong 2020	Aggarwal 2020	Meng 2020	Wang 2020	Liang 2020	
	Country	Multiple		Oman	Italy	China	China	China	USA	China	Korea	USA	China	China	China	
	Enrolment	417(80 studies)		63	3032	161	200	60	105	354	98	16	168	125	1590	
<b>CLINICAL MANIFESTATIONS</b>																
	Cough	39	11	X	X	X	X	X	X		X	X	X	X	X	
	Dyspnea/shortness of breath	30	11	X	X	X	X	X	X		X	X	X	X	X	
	Fever	68	10	X	X	X	X	X	X		X	X	X		X	
	Myalgia/fatigue/ body aches	38	10	X		X	X	X	X		X	X	X	X	X	
	Diarrhea	14	10	X	X	X	X	X	X			X	X	X	X	
	Nausea/vomiting	8	9	X		X	X	X	X			X	X	X	X	
	Sore throat/pharyngalgia	20	7				X	X	X			X	X	X	X	
	Sputum/phlegm production	14	6			X		X	X		X		X	X		
	Headache	11	6					X	X			X	X	X	X	
	Dizziness/lightheadedness	5	6			X	X	X				X	X	X		
	Rhinorrhea/runny nose	13	4	X					X					X	X	
	Chills	4	4	X			X		X						X	
<b>LABORATORY FINDINGS</b>																
	Lymphopenia/lymphocyte count	24	10	X		X	X	X	X	X	X	X	X	X	X	
	Creatinine	4	8	X		X	X		X		X	X	X	X	X	
	C-reactive protein (CRP)	18	7			X	X			X	X	X	X	X	X	
	Hemoglobin (Hb)		7	X		X	X				X	X	X	X	X	

	Lactate dehydrogenase (LDH)	14	5	X			X		X	X	X
	Aspartate aminotransferase (AST)	11	5				X	X		X	X
	Alanine aminotransferase (ALT)	13	5				X	X		X	X
	D-dimer		5	X	X				X		X
	Creatinine kinase	8	2				X		X		
<b>CT</b>											
	Bi-lateral	23	7	X	X	X	X		X	X	X
	Ground glass opacification (GGO) without consolidation	20	3						X	X	X
	Unilateral	11	2		X				X		
	Both GGO and consolidation	16	X					X			
	Crazy-paving pattern		X					X			
<b>COMPLICATIONS</b>											
	Acute respiratory distress syndrome (ARDS)	11	7		X	X	X	X	X	X	X
	Acute cardiac injury		6		X	X	X	X	X	X	
	Acute renal injury		5		X		X	X	X	X	
	Shock		3				X	X		X	
	Secondary infection		2				X				X
	Sepsis		2			X			X		
<b>OUTCOMES</b>											
	Death	10	8	X	X	X	X	X	X		X
	Discharged	23	7	X	X	X	X	X	X		X
	Remain in hospital	30	6	X	X	X		X	X		X

## Search methods

Searched Ovid MEDLINE on June 30, 2020

Search strategy:

- 1 (clinical characteristic? or clinical feature? or clinical presentation or symptom?).ti.
- 2 limit 1 to covid-19
- 3 (moderate or severe or hospitalised or hospitalized or critical\*).ti.
- 4 2 and 3

Inclusion criteria:

- Must not focus on specific populations, conditions, or functions (e.g. children, liver function, diabetes, HIV, cancer, etc.)
- Must not focus on any specific treatment
- Must differentiate between severe and non-severe cases
- Articles in English only
- Full text must be available
- Single studies: Published after April 24, 2020

**Please note: This was not a systematic search. This summary is not being kept up to date, and reflects evidence up to and including July 2, 2020 only.**

