

**Clinical characteristics, treatment and outcomes of pediatric COVID-19: a systematic review and meta-analysis****Supplement file**

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**Table 1: Search Strategy for MEDLINE**

- 1- (coronavirus or "covid 2019" or "SARS2" or "SARS" or "SARS CoV19" or "severe acute respiratory syndrome coronavirus 2" or "coronavirus infection" or "severe acute respiratory pneumonia outbreak" or "novel cov" or 2019ncov or sars cov2 or cov2 or ncov or covid or covid19 or coronaviridae or "corona virus").mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 2- "coronavirus infections".mp. or exp Coronavirus Infections/
- 3- exp Coronavirus 229E, Human/ or exp Coronavirus/ or exp Middle East Respiratory Syndrome Coronavirus/ or coronavirus.mp.
- 4- 1 or 2 or 3
- 5- (infant or neonate or newborn or child or children or pediatric\* or paediatric or baby or babies or toddler).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 6- exp Infant, Low Birth Weight/ or exp Infant, Extremely Premature/ or exp Infant/ or exp Infant, Newborn/ or exp Infant, Premature/
- 7- 5 or 6
- 8- 4 and 7

**Table 2: Distribution of studies (N=129) according to Country of origin included in the review**

Country	Count of reports	Sum of COVID-19 cases
USA	24	3443
China	36	1315
Canada	1	938
UK	9	867
Kazakhstan	1	650
25 European Countries	1	582
Italy	4	171
Spain	8	287
Korea	1	91
India	5	145
Turkey	3	338
Jordan	1	61
France	4	47
Iran	7	152
Brunei-Darussalam	1	12
Chile	1	27
Bangladesh	1	26
Brazil	4	261
Pakistan	3	20
Poland	1	9
Kuwait	1	134
Saudi Arabia	1	10
Australia	1	4
Malaysia	1	4
Romania	1	3
Japan	1	3
Germany	1	3
Mexico	2	53
South Africa	2	182
Peru	1	69
5 Latin American Countries (Mexico, Colombia, Peru, Costa Rico, Brazil)	1	409

Total

129

10251

Table 3: Characteristics of included studies (N=129)

Study and year	Country	World Bank Country Classification	Total number (N)	Study setting	Mean age (years)	Males (N)	Past medical history and Contact history	Presenting signs and symptoms	Management (other than supportive care)	Outcomes
Qiu, H 2020	China	LMIC	36	Patients presenting to hospital	8.3	23	Travel history (n=12) Contact history (n=32) Comorbidities (NR)	Fever (n=13), cough (n=7), headache (n=3), nasal symptoms (n=2), GI symptoms (n=2)	Interferon (n=36), antivirals (n=14), oxygen (n=6)	Recovered (n=36) ICU admission (n=0)
Wang, D 2020	China	LMIC	31	Patients admitted in hospital	7.1	15	Travel history (n=9) Contact history (n=1) Comorbidities (n=0)	Asymptomatic (n=7), fever (n=20), cough (n=14), fatigue and diarrhea (n=3 each), sore throat (n=2), headache/dizziness (n=3), rhinorrhoea (n=2), vomiting (n=2)	Interferon (n=10), Antibiotics (n=6), antivirals (n=29), traditional medicine (n=9), IVIG (n=4)	Recovered (n=24) ICU admission (n=0)
Zheng, F 2020	China	LMIC	25	Patients admitted in hospital	3.0	14	Travel history (n=9) Contact history (n=1) Comorbidities (n=0)	Fever (n=13), cough (n=11), diarrhea (n=3), dyspnea (n=2), vomiting (n=2), abdominal pain (n=2), nasal congestion (n=2)	Interferon (n=2), Antibiotics (n=2), antivirals (n=2), steroids (n=2), IVIG (n=4), Mechanical ventilation (n=2)	Recovered (NR) ICU admission (n=2)

Xia, W 2020	China	LMIC	20	Patients admitted in hospital	4.8	13	Travel history (n=20) Contact history (n=13) Comorbidities (NR)	Cough (n=13), fever (n=12), diarrhea (n=3), dyspnea (n=2), sore throat (n=1), fatigue (n=1)	NR	Recovered (n=19) ICU admission (n=1)
Feng, K 2020	China	LMIC	15	Patients presenting to hospital	NR	5	Travel history (n=3) Contact history (n=12) Comorbidities (NR)	Asymptomatic (n=8), fever (n=5), cough or nasal congestion (n=1)	NR	Recovered (n=5) ICU admission (n=0)
Cai, J 2020	China	LMIC	10	Patients admitted in hospital	6.5	4	NR	Fever (n=8), cough (n=6) or sore throat or nasal congestion (n=7)	Antibiotics (n=5)	Recovered (n=10) ICU admission (n=0)
Wei, M 2020	China	LMIC	9	Patients admitted in hospital	0.5	2	Travel history (n=7) Contact history (n=9) Comorbidities (NR)	Asymptomatic (n=6), fever (n=4), cough (n=2), rhinorrhoea (n=1), sputum production (n=1)	NR	Recovered (n=9) ICU admission (n=0)
Su, L 2020	China	LMIC	9	Patients presenting to hospital	4.5	3	Travel history (n=8) Contact history (n=9) Comorbidities (NR)	Asymptomatic (n=6), fever or cough (n=3)	Interferon given to all patients; antivirals (n=2)	Recovered (NR) ICU admission (n=0)
Zhou, Y 2020	China	LMIC	9	Patients admitted in hospital	1.0	4	Travel history (n=3) Contact history (n=9) Comorbidities (n=0)	Asymptomatic (n=5), fever (n=4), cough (n=2), rhinorrhoea (n=1)	Interferon (n=9) antivirals (n=6), mechanical ventilation (n=9)	Recovered (NR) ICU admission (n=0)
Sun, D 2020	China		8		6.8	6	Travel history (n=8)	Fever or cough (n=6 each), sputum production (n=4),	mechanical ventilation (n=2), antibiotics (n=5),	Recovered (n=5)

		LMIC		Patients admitted in hospital			Contact history (n=5) Comorbidities (n=3)	nausea/ vomiting (n=4), diarrhea (n=3), fatigue (n=1) or headache (n=1), sore throat or nasal symptoms (n=8)	systemic steroids (n=5), IVIG (n=4), Chinese medications (n=4)	ICU admission (n=8)
Liu, W 2020	China	LMIC	6	Patients admitted in hospital	3.0	2	NR	High fever and cough in all patients; vomiting and fatigue (n=4)	Antivirals (n=6), systemic steroids (n=4), IVIG (n=1)	Recovered (n=5) ICU admission (n=1)
Hu, Z 2020	China	LMIC	7	Patients admitted in hospital	8.0	5	Travel history (n=3) Contact history (n=0) Comorbidities (NR)	Asymptomatic (n=4), fever (n=1)	NR	Recovered (n=6) ICU admission (NR)
Liu, M 2020	China	LMIC	5	Patients admitted in hospital	5.9	4	Travel history (n=0) Contact history (n=5) Comorbidities (NR)	Fever (n=2), cough (n=2), diarrhea (n=1), asymptomatic (n=3)	Antiviral (n=3), Interferon (n=4)	Recovered (n=5) ICU admission (n=0)
Liu, H 2020	China	LMIC	4	Patients presenting to hospital	3.0	2	Travel history (n=4) Contact history (n=4) Comorbidities (NR)	Fever (n=3), cough (n=3), Fatigue (n=1)	NR	NR
Lou, MX 2020	China	LMIC	3	Patients admitted in hospital	4.8	1	Travel history (n=2) Contact history (n=3) Comorbidities (NR)	Fever (n=3), cough (n=1), Fatigue (n=2), diarrhea (n=2), nasal symptoms or sore throat (n=2)	Antibiotics (n=1), interferon (n=2)	Recovered (n=3) ICU admission (n=0)
Zhang, T 2020	China	LMIC	3	Patients admitted in hospital	7.7	3	Travel history (n=0) Contact history (n=3)	Fever (n=2), cough (n=1), Fatigue (n=1), nausea or vomiting (n=2), nasal symptoms or sore throat (n=3)	Antibiotics (n=1), antivirals (n=1), interferon (n=3), Chinese medicine (n=3)	Recovered (n=3) ICU admission (NR)

							Comorbidities (NR)			
Li, Y 2020	China	LMIC	2	Patients admitted in hospital	4.0	1	Travel history (n=2) Contact history (n=2) Comorbidities (n=0)	Cough (n=1), nasal symptoms (n=1), asymptomatic (n=1)	NR	Recovered (NR) ICU admission (NR)
Ji, LN 2020	China	LMIC	2	Patients admitted in hospital	12.0	2	Travel history (n=2) Contact history (n=2) Comorbidities (n=0)	Fever (n=1), nasal symptoms (n=1), sore throat (n=1)	NR	Recovered (NR) ICU admission (n=0)
Tagarro, A 2020	Spain	HIC	41	Patients admitted in hospital	4.3	18	Travel history (NR) Contact history (n=16) Comorbidities (n=2)	Upper respiratory symptoms in 14 (34%), fever (n=11), gastroenteritis or vomiting (n=2)	Mechanical ventilation (n=4)	Recovered (n=37) ICU admission (n=4)
Chen, A 2020	China	LMIC	14	Patients admitted in hospital	4.3	8	Travel history (n=10) Contact history (n=4) Comorbidities (n=0)	Fever (n=6), cough (n=6), Fatigue (n=3), nasal symptoms or sore throat (n=2)	NR	NR
See, KC 2020	Malaysia	LMIC	4	Patients presenting to hospital	6.4	3	Travel history (n=4) Contact history (n=0) Comorbidities (N=1)	Fever (n=1), cough (n=2), diarrhea (n=1), asymptomatic (n=2)	Antibiotics (n=1)	Recovered (n=4) ICU admission (n=0)
Zhang, GX 2020	China	LMIC	2	Patients admitted in hospital	1.2	0	Travel history (n=0) Contact history (n=2)	Fever (n=2), fatigue (n=1), dyspnea (n=1), diarrhea (n=2), nausea or vomiting (n=2),	IVIG (n=1), interferon (n=2), Chinese medicine (n=1)	Recovered (n=2) ICU admission (n=0)

							Comorbidities (n=0)			
Cheng, X 2020	China	LMIC	2	Patients admitted in hospital	1.0	1	Travel history (n=2) Contact history (n=0) Comorbidities (n=0)	Fever (n=2), fatigue (n=1), dyspnea (n=1), diarrhea (n=2), nausea or vomiting (n=2),	Antibiotics (n=2), interferon (n=1), Chinese medicine (n=1)	Recovered (n=2) ICU admission (n=1)
Tang, A 2020	China	LMIC	26	Patients admitted in hospital	6.9	17	Travel history (n=26) Contact history (n=26) Comorbidities (n=0)	Fever (n=11), cough (n=12), diarrhea (n=2), nausea or vomiting (n=2), nasal symptoms or sore throat (n=2), asymptomatic (n=9)	Antivirals (n=22), interferon (n=4)	Recovered (n=17) ICU admission (n=0)
Zhu, L 2020	China	LMIC	10	Patients admitted in hospital	9.1	1	Travel history (n=8) Contact history (n=10) Comorbidities (n=0)	Fever (n=3), cough (n=3), asymptomatic (n=6)	Antivirals (n=1), interferon (n=10)	Recovered (n=10) ICU admission (n=0)
Tan, X 2020	China	LMIC	13	Patients admitted in hospital	7.9	4	Travel history (n=3) Contact history (n=10) Comorbidities (n=0)	Fever (n=6), cough (n=6), nasal symptoms (n=1), diarrhea (n=1), nausea or vomiting (n=1), abdominal pain (n=1), headache (n=1), asymptomatic (n=2)	Antivirals (n=12), interferon (n=10)	Recovered (n=13) ICU admission (n=0)
Ma, H 2020	China	LMIC	22	Patients admitted in hospital	5.5	12	Travel history (n=22) Contact history (n=0) Comorbidities (n=0)	Fever (n=13), dry cough (n=5), shortness of breath (n=1), asymptomatic (n=2)	NR	Recovered (n=5) ICU admission (n=0)
Shen, Q 2020	China	LMIC	9	Patients admitted in hospital	7.6	3	Travel history (n=2) Contact history (n=6)	asymptomatic (n=2), fever (n=3), diarrhea (n=2), sore throat (n=1), cough (n=1)	Antivirals (n=9), antibiotics (n=4), IVIG (n=1), Systemic steroids (n=1)	Recovered (n=6) ICU admission (n=0)



							Comorbidities (n=0)			
Schwierzeck, V 2020	Germany	HIC	3	Patients admitted in hospital	10.0	NR	Travel history (n=0) Contact history (NR) Comorbidities (n=3)	Asymptomatic (n=2), fever (n=1), cough (n=1), nasal congestion (n=1)	NR	NR
Jiang, JY 2020	China	LMIC	6	Patients presenting to hospital	7.0	5	Travel history (n=0) Contact history (n=6) Comorbidities (NR)	Fever (n=3), cough (n=2), diarrhea (n=3), asymptomatic (n=3)	NR	Recovered (n=6) ICU admission (n=0)
Riphagen, S 2020	UK	HIC	8	Patients admitted in hospital	8.9	5	Travel history (NR) Contact history (NR) Comorbidities (NR)	Fever (n=8), diarrhea (n=7), rashes (n=4), conjunctivitis (n=5)	IVIG (n=6), Systemic steroids (n=5), Inotropes (n=8), aspirin (n=3)	Recovered (n=7) ICU admission (n=8) Death (n=1)
Shekerdemian, LS 2020	USA	HIC	48	Patients admitted to intensive care units	11.7	25	Travel history (NR) Contact history (NR) Comorbidities (n=40)	Multi-organ failure (n=11), pulmonary symptoms (n=35), diarrhea (n=1), headache (n=2), asymptomatic (n=1)	hydroxychloroquine (n=21), antiviral (n=8), mechanical ventilation (n=18), antibiotics (n=15)	Recovered (n=31) ICU admission (n=48) Death (n=2)
Verdoni, L 2020	Italy	HIC	10	Patients admitted in hospital	7.5	7	Travel history (NR) Contact history (NR) Comorbidities (n=5)	GI symptoms (n=5), neurological (n=4), Kawasaki signs (n=12), rashes (n=5)	IVIG (n=8), Inotropes (n=2)	Recovered (n=10) ICU admission (n=0)
Rahimzadeh, G 2020	Iran	LMIC	9	Patients admitted in hospital	4.9	6	Travel history (n=0) Contact history (n=0)	Fever (n=9), cough (n=9), fatigue (n=9), asymptomatic (n=3)	Mechanical ventilation (n=2), antivirals (n=9), antibiotics (n=9), antimalarials (n=9)	Recovered (n=9) ICU admission (n=2)

							Comorbidities (n=0)			
Tullie, L 2020	UK	HIC	8	Patients admitted in hospital	NR	NR	NR	Fever (n=8), Kawasaki signs (n=4), rashes (n=4), GI symptoms (n=8)	antibiotics (n=8), IVIG (n=4)	Recovered (n=7) ICU admission (n=4)
Sajid, MI 2020	Pakistan	LMIC	2	Patients admitted in hospital	12.0	1	Travel history (NR) Contact history (NR) Comorbidities (n=2)	Fever (n=2), cough (n=1)	NR	Recovered (NR) ICU admission (n=0)
Zhang, ZJ 2020	China	LMIC	4	Patients admitted in hospital	Newborns	3	Travel history (NR) Contact history (NR) Comorbidities (n=2)	Fever (n=2), shortness of breath (n=1), cough (n=1), vomiting (n=1), asymptomatic (n=1)	NR	Recovered (NR) ICU admission (n=0)
Zeng, L 2020	China	LMIC	3	Patients admitted in hospital	Newborns	3	Travel history (n=3) Contact history (n=3) Comorbidities (n=0)	Fever (n=2), cough (n=1), fatigue (n=1)	Mechanical ventilation (n=1), antibiotics (n=1)	Recovered (NR) ICU admission (n=3)
Salvatori, G 2020	Italy	HIC	2	Patients presenting to hospital	Newborns	1	Travel history (NR) Contact history (NR) Comorbidities (n=0)	Cough (n=1), fatigue (n=1), diarrhea (n=1), asymptomatic (n=1)	NR	Recovered (n=2) ICU admission (n=0)
Zhang, X 2020	China	LMIC	10	Patients presenting to hospital	4.9	3	Travel history (n=0) Contact history (n=10) Comorbidities (n=0)	Fever (n=3), Cough (n=1), sore throat (n=1), asymptomatic (n=5)	NR	Recovered (n=10) ICU admission (n=0)
Wu, HP 2020	China		23		NR	NR	Travel history (n=7)	Fever (n=16), Cough (n=11), diarrhea (n=2),	Antivirals (n=8), antibiotics (n=6),	Recovered (n=23) ICU admission (n=0)

		LMIC		Patients admitted in hospital			Contact history (n=17) Comorbidities (n=0)	sore throat (n=2), asymptomatic (n=3)	interferon (n=17), antimalarial (n=1)	
Zhang, H 2020	China	LMIC	2	Patients presenting to hospital	13.5	2	Travel history (n=2) Contact history (n=2) Comorbidities (n=2)	Fever (n=1), Cough (n=1), asymptomatic (n=1)	Antivirals (n=2), antibiotics (n=1), interferon (n=2)	Recovered (n=2) ICU admission (n=0)
Chao, JY 2020	USA	HIC	46	Patients admitted in hospital	13.1	31	Travel history (n=0) Contact history (n=20) Comorbidities (n=31)	Fever (n=28), Cough (n=28), dyspnea (n=22) asymptomatic (n=1)	NR	Recovered (n=45) ICU admission (n=13) Deaths (n=1)
Eghbali, A 2020	Iran	LMIC	4	Patients admitted in hospital	11.0	4	Travel history (NR) Contact history (NR) Comorbidities (n=2)	Fever (n=4), Cough (n=4), dyspnea (n=2)	Mechanical ventilation (n=2)	Recovered (n=4) ICU admission (n=2)
Chiotos, K 2020	USA	HIC	6	Patients admitted in hospital	8.5	1	Travel history (n=0) Contact history (n=0) Comorbidities (n=0)	Fever (n=6), diarrhea (n=6), nausea of vomiting (n=5), abdominal pain (n=5), dyspnea (n=4), kawasaki signs (n=6), rashes (n=2), conjunctivitis (n=2)	IVIG (N=6), Systemic steroids (n=3), inotropes (n=6), aspirin (n=3)	Recovered (n=5) ICU admission (n=1)
Flores, V 2020	Mexico	LMIC	3	Patients admitted in hospital	7.0	0	Travel history (NR) Contact history (n=0) Comorbidities (n=3)	Fever (n=3), dyspnea (n=1)	Mechanical ventilation (n=1), Antibiotics (n=3)	Recovered (n=2) ICU admission (n=1) Deaths (n=1)
García-Salido, A 2020	Spain		7	Patients admitted in hospital	8.4	4	Travel history (NR)	Fever (n=5), dyspnea (n=3), diarrhea (n=3), nausea or vomiting (n=3)	Antivirals (n=6), antibiotics (n=6), IVIG	Recovered (n=7) ICU admission (n=7)

		HIC		Patients admitted to intensive care units			Contact history (NR) Comorbidities (n=1)		(n=2), systemic steroids (n=6), antimalarial (n=6), interferon (n=2)	
Cabrero-Hernández, M 2020	Spain	HIC	5	Patients admitted to intensive care units	10.6	4	Travel history (NR) Contact history (NR) Comorbidities (n=0)	Fever (n=5), diarrhea (n=3), nausea or vomiting (n=2), abdominal pain (n=5), Kawasaki signs (n=1), rashes (n=1)	Mechanical ventilation (n=5), Systemic steroids (n=5), antimalarial (n=5), inotropes (n=4)	Recovered (n=5) ICU admission (n=5)
Waltuch, T 2020	USA	HIC	4	Patients admitted to intensive care units	10.0	3	Travel history (n=0) Contact history (n=2) Comorbidities (n=2)	Fever (n=4), Cough (n=2), fatigue (n=2), GI symptoms (n=3), Kawasaki signs (n=2), rashes (n=2), conjunctivitis (n=1)	Antibiotics (n=4), IVIG (n=2), Inotropes (n=1)	Recovered (n=4) ICU admission (n=4)
Kakuya, F 2020	Japan	HIC	3	Patients presenting to hospital	8.3	3	Travel history (n=0) Contact history (n=1) Comorbidities (n=0)	Fever (n=3), Cough (n=3), fatigue (n=1),	Antibiotics (n=2)	Recovered (n=3) ICU admission (n=0)
Soltani, J 2020	Iran	LMIC	30	Patients presenting to hospital	6.0	14	Travel history (NR) Contact history (NR) Comorbidities (n=11)	Fever (n=23), Cough (n=16), dyspnea (n=20), diarrhea (n=3), nausea or vomiting (n=8), nasal symptoms or sore throat (n=6)	Antivirals (n=19), antibiotics (n=17), IVIG (n=2), antimalarial (n=23)	Recovered (n=29) ICU admission (n=1) Deaths (n=1)
Toubiana, J 2020	France	HIC	21	Patients admitted in hospital	7.9	9	Travel history (NR) Contact history (NR) Comorbidities (n=0)	Fever (n=11), GI Symptoms (n=21), neurological (n=6), kawasaki signs (n=11), rashes (n=16), conjunctivitis (n=17)	Mechanical ventilation (n=11), Antibiotics (n=18), IVIG (N=21), Systemic steroids (n=10), Inotropes (n=15), aspirin (n=21)	Recovered (n=21) ICU admission (n=17)
Foster, CE 2020	USA	HIC	57	Patients presenting to hospital	10.6	31	Travel history (n=3) Contact history (n=30)	Fever (n=35), cough (n=34), GI Symptoms (n=21), sore throat or	Antibiotics (n=3), systemic steroids (n=3), IVIG (n=1),	Recovered (n=57) ICU admission (n=0)

							Comorbidities (n=21)	nasal symptoms (n=16), asymptomatic (n=3)		
White, A 2020	USA	HIC	3	Patients admitted in hospital	0.1	2	Travel history (n=0) Contact history (n=2) Comorbidities (n=0)	Fever (n=3), dyspnea (n=3), nasal symptoms (n=3)	NR	Recovered (n=3) ICU admission (n=3)
Lin, EE 2020	USA	HIC	12	Patients admitted in hospital	11.3	8	Travel history (n=0) Contact history (n=2) Comorbidities (n=0)	Fever (n=3), cough (n=1), GI Symptoms (n=1), sore throat (n=2),	NR	Recovered (NR) ICU admission (n=0)
Gao, Y 2020	China	LMIC	11	Patients presenting to hospital	10.3	6	Travel history (n=0) Contact history (n=10) Comorbidities (n=0)	Fever (n=2), cough (n=2), dyspnea (n=1), asymptomatic (n=8)	Antiviral (n=4), interferon (n=7), Chinese medicine (n=5)	Recovered (n=11) ICU admission (n=0)
Harman, K 2020	UK	HIC	5	Patients admitted in hospital	7.1	2	Travel history (NR) Contact history (NR) Comorbidities (n=5)	Fever (n=3), asymptomatic (n=2)	Antiviral (n=1), antibiotics (n=5), antimalarial (n=1)	Recovered (n=4) ICU admission (n=2)
Blondiaux, E 2020	France	HIC	4	Patients admitted in hospital	9.0	1	Travel history (NR) Contact history (n=3) Comorbidities (n=0)	Fever (n=4), GI symptoms (n=4), rashes (n=4), conjunctivitis (n=3)	Mechanical ventilation (n=1), systemic steroids (n=3), inotropes (n=3), aspirin (n=3), IVIG (N=4)	Recovered (n=4) ICU admission (n=4)
Pouletty, M 2020	France	HIC	16	Patients admitted in hospital	10.0	8	Travel history (n=0) Contact history (n=12)	Fever (n=16), cough (n=2), dyspnea (n=2), GI symptoms (n=13), neurological (n=9), Kawasaki signs (n=7),	Mechanical ventilation (n=2), systemic steroids (n=4), antimalarial (n=1), aspirin (n=3), IVIG	Recovered (n=16) ICU admission (n=6)

							Comorbidities (n=6)	rashes (n=13), conjunctivitis (n=15)	(N=15), inotropes (n=6), aspirin (n=15)	
Whittaker, E 2020	UK	HIC	45	Patients admitted in hospital	10.0	19	Travel history (NR) Contact history (NR) Comorbidities (n=7)	Fever (n=45), dyspnea (n=9), GI symptoms (n=25), neurological (n=5), Kawasaki signs (n=25), rashes (n=21), conjunctivitis (n=20)	Mechanical ventilation (n=20), systemic steroids (n=33), IVIG (N=33), inotropes (n=23)	Recovered (n=44) ICU admission (n=20) Death (n=1)
Cheung, EW 2020	USA	HIC	17	Patients admitted in hospital	8.0	8	Travel history (n=0) Contact history (n=11) Comorbidities (n=3)	Fever (n=17), cough (n=7), dyspnea (n=7), neurological (n=8), Kawasaki signs (n=13), rashes (n=12), conjunctivitis (n=11)	Systemic steroids (n=12), IVIG (N=13), inotropes (n=10), aspirin (n=4)	Recovered (n=17) ICU admission (n=15)
Lu, X 2020	China	LMIC	171	National surveillance	6.7	104	Travel history (n=17) Contact history (n=131) Comorbidities (n=9)	Fever (n=71), cough (n=83), pharyngeal erythema (n=79), fatigue (n=13), diarrhea (n=15), nausea or vomiting (n=11), nasal symptoms or sore throat (n=22), asymptomatic (n=27)	NR	Recovered (n=149) ICU admission (n=3) Death (n=1)
CDC, COVID 2020	USA	HIC	2572	National surveillance	9.8	1408	Travel history (n=16) Contact history (n=168) Comorbidities (n=80)	Fever (n=163), cough (n=158), dyspnea (n=39), diarrhea (n=37), nausea or vomiting (n=31), abdominal pain (n=17), nasal symptoms or sore throat (n=71), neurological (n=81)	NR	Recovered (n=2569) ICU admission (n=15) Death (n=3)
Gotzinger, F 2020	Europe	HIC	582	Multinational cohort study	5.6	311	Travel history (n=0) Contact history (n=348) Comorbidities (n=145)	Fever (n=379), GI symptoms (n=128), neurological (n=70), asymptomatic (n=92)	Antiviral (n=30), IVIG (n=7), systemic steroids (n=22), antimalarial (n=40)	Recovered (n=460) ICU admission (n=48) Death (n=4)

Dong, Y 2020	China	LMIC	728	National surveillance study	9.8	418	Travel history (NR) Contact history (NR) Comorbidities (NR)	315 mild illness, 300 moderate illness, 18 severe and 3 critically ill, 94 asymptomatic children	NR	Recovered (n=727) ICU admission (n=21) Death (n=1)
Abdel-Mannan, O 2020	UK	HIC	4	Patients admitted in hospital	11.8	2	Travel history (NR) Contact history (NR) Comorbidities (NR)	Fever (n=4), dyspnea (n=2), nausea or vomiting (n=4), abdominal pain (n=1), neurological (n=4), rashes (n=4)	Mechanical ventilation (n=4), IVIG (n=3), systemic steroids (n=2)	Recovered (n=2) ICU admission (n=4)
Guha, A 2020	India	LMIC	41	National surveillance	1.9	24	Travel history (n=0) Contact history (n=26) Comorbidities (n=25)	Fever (n=9), cough (n=5), dyspnea (n=13), diarrhea (n=3), Kawasaki signs (n=2), rashes (n=2), asymptomatic (n=11)	Mechanical ventilation (n=2)	Recovered (n=40) ICU admission (n=6) Death (n=1)
Bhumbra, S 2020	USA	HIC	19	Patients admitted in hospital	6.7	14	Travel history (NR) Contact history (NR) Comorbidities (n=8)	Fever (n=12), cough (n=5), dyspnea (n=12), nausea or vomiting (n=2), sore throat (n=2),	Mechanical ventilation (n=4)	Recovered (n=12) ICU admission (n=7) Death (n=1)
Bisogno, G 2020	Italy	HIC	29	Patients admitted in hospital	7.5	13	Travel history (NR) Contact history (NR) Comorbidities (n=29)	Fever (n=8), fatigue (n=1), dyspnea (n=7), diarrhea (n=1), nausea or vomiting (n=1), asymptomatic (n=7)	Mechanical ventilation (n=0), antiviral (n=3), antibiotics (n=13), antimalarial (n=9)	Recovered (n=27) ICU admission (n=0)
Blumfield, E 2020	USA	HIC	19	Patients admitted in hospital	8.5	10	Travel history (NR) Contact history (NR)	Fever (n=17), cough (n=13), dyspnea (n=13), diarrhea (n=9), nausea or vomiting (n=9), abdominal pain (n=2),	Mechanical ventilation (n=8)	Recovered (n=17) ICU admission (n=14) Death (n=2)

							Comorbidities (n=12)	neurological (n=5), nasal symptoms or sore throat (n=8)		
Derespin a, KR 2020	USA	HIC	70	Patients admitted in hospital	14.5	43	Travel history (n=2) Contact history (n=30) Comorbidities (n=52)	Fever (n=51), cough (n=50), dyspnea (n=45), fatigue (n=13), diarrhea (n=18), nausea or vomiting (n=24), neurological (n=15), nasal symptoms or sore throat (n=9)	Mechanical ventilation (n=20), antiviral (n=13), antibiotics (n=23), systemic steroids (n=23), antimalarial (n=27), inotropes (n=14)	Recovered (n=55) ICU admission (n=2) Death (n=70)
Feldstein , LR 2020	USA	HIC	186	Patients admitted in hospital	8.1	115	Travel history (NR) Contact history (NR) Comorbidities (n=51)	Fever (n=186), GI symptoms (n=170), neurological (n=10), Kawasaki signs (n=186), rashes (n=110), conjunctivitis (n=103)	Mechanical ventilation (n=37), IVIG (n=144), systemic steroids (n=91),	Recovered (n=130) ICU admission (n=148) Death (n=4)
George, S 2020	Brunei-Dar	LMIC	12	National surveillance	6.1	7	Travel history (n=0) Contact history (n=12) Comorbidities (n=4)	Fever (n=6), cough (n=6), asymptomatic (n=4)	Antibiotics (n=1)	Recovered (n=12) ICU admission (n=0)
Gonzalez -Cortes, R 2020	Spain	HIC	50	Patients admitted to intensive care units	6.7	31	Travel history (NR) Contact history (NR) Comorbidities (NR)	Dyspnea (n=20), neurological (n=1), Kawasaki (n=27), rashes (n=27)	Mechanical ventilation (n=14), antiviral (n=26), antibiotics (n=43), IVIG (n=15), systemic steroids (n=32), antimalarial (n=29)	Recovered (n=50) ICU admission (n=14)
Kainth, MK 2020	USA	HIC	65	Patients admitted in hospital	9.6	33	Travel history (NR) Contact history (n=33) Comorbidities (n=30)	Fever (n=57), cough (n=32), fatigue (n=26), dyspnea (n=34), GI symptoms (n=40), nasal symptoms or sore throat	Mechanical ventilation (n=5), antiviral (n=4), antibiotics (n=13), systemic steroids	Recovered (n=57) ICU admission (n=22) Death (n=1)



								(n=22), neurological (n=21), rashes (n=5)	(n=7), antimalarial (n=13), inotropes (n=8)	
Kaushik, S 2020	USA	HIC	33	Patients admitted in hospital	9.8	20	Travel history (NR) Contact history (n=13) Comorbidities (n=16)	Fever (n=31), dyspnea (n=11), diarrhea (n=16), nausea or vomiting (n=23), abdominal pain (n=21), neurological (n=4), Kawasaki signs (n=33), rashes (n=7), conjunctivitis (n=12)	Mechanical ventilation (n=5), antiviral (n=7), antibiotics (n=32), systemic steroids (n=17), IVIG (n=18), inotropes (n=17)	Recovered (n=32) ICU admission (n=33) Death (n=1)
Kest, H 2020	USA	HIC	3	Patients admitted in hospital	8.3	1	Travel history (n=0) Contact history (n=1) Comorbidities (n=0)	Fever (n=3), fatigue (n=1), GI symptoms (n=3), neurological (n=2), Kawasaki signs (n=3), rashes (n=3), conjunctivitis (n=3)	Mechanical ventilation (n=2), antibiotics (n=2), IVIG (n=2), systemic steroids (n=3), antimalarial (n=1), inotropes (n=3)	Recovered (n=3) ICU admission (n=3)
Korkmaz, MF 2020	Turkey	LMIC	81	Patients admitted in hospital	9.2	48	Travel history (NR) Contact history (n=75) Comorbidities (n=4)	Fever (n=47), cough (n=42), fatigue (n=15), dyspnea (n=2), GI symptoms (n=3), nasal symptoms or sore throat (n=7), neurological (n=11), asymptomatic (n=17)	Antibiotics (n=42), systemic steroids (n=3)	Recovered (n=81) ICU admission (n=2)
Meslin, P 2020	France	HIC	6	Patients admitted in hospital	0.1	3	Travel history (NR) Contact history (n=4) Comorbidities (n=2)	Fever (n=6), cough (n=1), fatigue (n=1), nausea or vomiting (n=1), nasal symptoms (n=2)	NR	Recovered (n=6) ICU admission (n=0)
Moraleda, C 2020	Spain	HIC	31	Patients admitted in hospital	7.8	18	Travel history (NR) Contact history (n=16)	Fever (n=30), cough (n=11), fatigue (n=5), dyspnea (n=8), GI symptoms (n=27), sore throat or nasal symptoms (n=8),	Mechanical ventilation (n=6), antiviral (n=9), antibiotics (n=28), systemic steroids (n=21), IVIG (n=20)	Recovered (n=29) ICU admission (n=20) Death (n=1)

							Comorbidities (n=10)	neurological (n=10), Kawasaki signs (n=13), rashes (n=23)		
Foong, Ng 2020	UK	HIC	3	Patients admitted in hospital	15.3	2	Travel history (n=0) Contact history (n=0) Comorbidities (n=1)	GI symptoms (n=3), Kawasaki signs (n=3), rashes (n=3), conjunctivitis (n=3)	Antibiotics (n=3), systemic steroids (n=1), IVIG (n=1), inotropes (n=2)	Recovered (n=3) ICU admission (n=3)
Pacquette, D 2020	Canada	HIC	938	National surveillance	NR	463	Travel history (n=106) Contact history (n=305) Comorbidities (NR)	NR	NR	NR
Parri, N 2020	Italy	HIC	130	Data collected through large collaborative networks	5.8	73	Travel history (n=0) Contact history (n=70) Comorbidities (N=34)	Fever (n=67), cough (n=54), dyspnea (n=17), diarrhea (n=10), sore throat or nasal symptoms (n=25), nausea or vomiting (n=15), neurological (n=3), asymptomatic (n=17)	Mechanical ventilation (n=2)	Recovered (n=130) ICU admission (n=9)
Perez, A 2020	USA	HIC	2	Patients admitted in hospital	16.5	1	Travel history (n=0) Contact history (n=0) Comorbidities (N=0)	Fever (n=1), fatigue (n=1), diarrhea (n=1), nausea or vomiting (n=1), abdominal pain (n=1)	NR	Recovered (n=2) ICU admission (n=0)
Sarangi, B 2020	India	LMIC	50	Patients presenting to in hospital	NR	28	Travel history (n=1) Contact history (n=45) Comorbidities (N=2)	Fever (n=17), cough (n=8), fatigue (n=4), diarrhea (n=2), sore throat or nasal symptoms (n=7), neurological (n=2), rashes (n=1),	NR	Recovered (n=50) ICU admission (n=0)

								asymptomatic (n=29), conjunctivitis (n=1)		
Sadiq, M 2020	Pakistan	LMIC	8	Patients admitted in hospital	9.5	7	Travel history (n=0) Contact history (n=8) Comorbidities (N=0)	Fever (n=8), fatigue (n=6), GI symptoms (n=6), neurological (n=3), Kawasaki signs (n=8), rashes (n=5), conjunctivitis (n=7)	Mechanical ventilation (n=1), systemic steroids (n=3), IVIG (n=6),	Recovered (n=5) ICU admission (n=2) Death (n=1)
Swann, OV 2020	UK	HIC	651	Patients admitted in hospitals	5.8	367	Travel history (NR) Contact history (NR) Comorbidities (n=276)	Fever (n=429), cough (n=231), fatigue (n=141), dyspnea (n=172), diarrhea (n=98), nausea or vomiting (n=179), abdominal pain (n=107), sore throat or nasal symptoms (n=132), neurological (n=148), kawasaki signs (n=52), rashes (n=87), conjunctivitis (n=26)	Mechanical ventilation (n=58), antiviral (n=38), antibiotics (n=415), systemic steroids (n=77), inotropes (n=47)	Recovered (n=557) ICU admission (n=116) Death (n=6)
Antunez-Montez, O 2020	5 Latin american Countries	LMIC	409	Patients presenting to hospitals	5.05	222	Travel history (n=0) Contact history (n=232) Comorbidities (N=83)	Fever (n=238), dyspnea (n=102), GI symptoms (n=101), sore throat or nasal symptoms (n=244), neurological (n=48), kawasaki signs (n=95), rashes (n=95), conjunctivitis (n=95), asymptomatic (n=49)	Mechanical ventilation (n=29), antiviral (n=14), IVIG (n=40), systemic steroids (n=63), antimalarial (n=10)	Recovered (n=392) ICU admission (n=52) Death (n=17)
Capone, C 2020	USA	HIC	33	Patients admitted in hospital	8.8	20	Travel history (NR) Contact history (NR) Comorbidities (N=7)	Fever (n=33), cough (n=17), dyspnea (n=17), diarrhea (n=32), nausea or vomiting (n=32), abdominal pain (n=32), neurological (n=19), kawasaki signs (n=21),	Mechanical ventilation (n=6), IVIG (n=33), systemic steroids (n=23), aspirin (n=29)	Recovered (n=33) ICU admission (n=52) Death (n=17)

								rashes (n=21), conjunctivitis (n=21)		
Cura Yayla, B 2020	Turkey	LMIC	220	Patients admitted in hospitals	9.3	106	Travel history (NR) Contact history (n=217) Comorbidities (N=21)	Fever (n=89), cough (n=79), fatigue (n=36), dyspnea (n=9), diarrhea (n=17), nausea or vomiting (n=9), sore throat or nasal symptoms (n=37), neurological (n=20), conjunctivitis (n=3), asymptomatic (n=55)	Mechanical ventilation (n=3), antiviral (n=6), antibiotics (n=40), antimalarial (n=1)	Recovered (n=209) ICU admission (n=3) Death (n=2)
Davies, P 2020	UK	HIC	78	Patients admitted to intensive care units	11.0	52	Travel history (NR) Contact history (NR) Comorbidities (N=17)	Fever (n=78), diarrhea (n=50), nausea or vomiting (n=49), abdominal pain (n=48), kawasaki signs (n=68), rashes (n=35), conjunctivitis (n=23)	Mechanical ventilation (n=36), antiviral (n=1), antibiotics (n=78), systemic steroids (n=57), IVIG (n=59), inotropes (n=65), aspirin (n=45)	Recovered (n=76) ICU admission (n=78) Death (n=2)
de Farias, E 2020	Brazil	LMIC	11	Patients admitted in hospital	5.4	9	Travel history (NR) Contact history (NR) Comorbidities (N=8)	Fever (n=11), kawasaki signs (n=5), rashes (n=5), conjunctivitis (n=5)	Mechanical ventilation (n=7), inotropes (n=7)	Recovered (n=9) ICU admission (n=11) Death (n=2)
Dima, M 2020	Romania	HIC	3	Patients admitted in hospital	Newborns	2	Travel history (n=0) Contact history (n=3) Comorbidities (N=1)	Fever (n=3), cough (n=1), fatigue (n=3), dyspnea (n=3)	antibiotics (n=1), IVIG (n=1), inotropes (n=47)	Recovered (n=3) ICU admission (n=0) Death (n=0)
Han, M 2020	Korea	HIC	91	Patients admitted in 20 hospitals	10.0	53	Travel history (n=15) Contact history (n=72)	Fever (n=27), cough (n=37), fatigue (n=12), dyspnea (n=5), diarrhea (n=11), nausea or vomiting (n=6),	antiviral (n=13), antimalarial (n=2)	Recovered (n=91) ICU admission (n=0) Death (n=0)

							Comorbidities (N=6)	abdominal pain (n=6), sore throat or nasal symptoms (n=8), neurological (n=12), asymptomatic (n=20)		
Ibrahim, L 2020	Australia	HIC	4	Patients presenting to hospital	13.1	1	Travel history (n=3) Contact history (n=4) Comorbidities (N=1)	Fever (n=1), cough (n=2), fatigue (n=4), diarrhea (n=1), sore throat or nasal symptoms (n=2), neurological (n=3)	Only supportive care	Recovered (n=4) ICU admission (n=0) Death (n=0)
Kilani, M 2020	Jordan	LMIC	61	Patients admitted in hospital	6.9		Travel history (n=0) Contact history (NR) Comorbidities (N=2)	Fever (n=11), cough (n=7), fatigue (n=12), diarrhea (n=10), sore throat or nasal symptoms (n=21), neurological (n=12), rashes (n=5), conjunctivitis (n=2), asymptomatic (n=27)	antimalarial (n=6)	Recovered (n=61) ICU admission (n=0) Death (n=0)
Okarska-Napierala, P 2020	Poland	HIC	9	Nationwide survey	10.35	4	Travel history (n=0) Contact history (n=2) Comorbidities (N=2)	Fever (n=9), cough (n=2), fatigue (n=2), dyspnea (n=2), diarrhea (n=5), nausea or vomiting (n=5), abdominal pain (n=5), neurological (n=5), kawasaki signs (n=9), rashes (n=6), conjunctivitis (n=4)	IVIg (n=7), systemic steroids (n=7), aspirin (n=6)	Recovered (n=4) ICU admission (n=1) Death (n=0)
Mahmoudi, S 2020	Iran	LMIC	35	Patients admitted in hospital	7.5	22	Travel history (n=0) Contact history (n=29) Comorbidities (N=18)	Fever (n=27), cough (n=28), fatigue (n=5), dyspnea (n=10), diarrhea (n=9), nausea or vomiting (n=10), abdominal pain (n=4), sore throat or nasal symptoms (n=3), neurological (n=7)	antiviral (n=30), antibiotics (n=35), antimalarial (n=22)	Recovered (n=31) ICU admission (n=7) Death (n=4)

Mamishi, S 2020	Iran	LMIC	45	Patients admitted in 3 hospitals	8.0	24	Travel history (n=0) Contact history (n=14) Comorbidities (N=6)	Fever (n=41), cough (n=16), fatigue (n=11), dyspnea (n=10), diarrhea (n=16), nausea or vomiting (n=23), abdominal pain (n=26), sore throat or nasal symptoms (n=7), kawasaki signs (n=31), rashes (n=24), conjunctivitis (n=23)	IVIg (n=18), systemic steroids (n=27),	Recovered (n=40) ICU admission (n=5) Death (n=5)
Mithal, L 2020	USA	HIC	18	Patients presenting to hospital	0.134	7	Travel history (n=0) Contact history (n=14) Comorbidities (N=0)	Fever (n=14), cough (n=8), fatigue (n=5), dyspnea (n=1), diarrhea (n=4), nausea or vomiting (n=4), sore throat or nasal symptoms (n=5), rashes (n=1), conjunctivitis (n=2), asymptomatic (n=1)	antibiotics (n=6)	Recovered (n=18) ICU admission (n=0) Death (n=0)
Newman, A 2020	USA	HIC	4	Patients admitted in hospital	10.9	4	Travel history (n=0) Contact history (n=0) Comorbidities (N=4)	Fever (n=3), cough (n=4), fatigue (n=2), dyspnea (n=1), nausea or vomiting (n=1), abdominal pain (n=1), sore throat or nasal symptoms (n=1)	Mechanical ventilation (n=1), antiviral (n=1), antibiotics (n=1), antimalarial (n=1)	Recovered (n=4) ICU admission (n=1) Death (n=0)
Torres, J 2020	Chile	HIC	27	Patients admitted in hospital	6.5	14	Travel history (n=0) Contact history (n=9) Comorbidities (N=7)	Fever (n=27), cough (n=7), diarrhea (n=17), nausea or vomiting (n=13), abdominal pain (n=17), kawasaki signs (n=18), rashes (n=14), conjunctivitis (n=13)	Mechanical ventilation (n=12), antibiotics (n=24), IVIg (n=19), systemic steroids (n=17) inotropes (n=12), aspirin (n=17)	Recovered (n=27) ICU admission (n=16) Death (n=0)
Saha, S 2020	Bangladesh	LMIC	26		0.02	16	Travel history (n=0)	Fever (n=14)		Recovered (n=12)

				Patients admitted in hospital			Contact history (n=8) Comorbidities (N=17)		Mechanical ventilation (n=25)	ICU admission (n=0) Death (n=4)
Gale, C 2020	UK	HIC	66	Population based surveillance study	Newborns	27	Travel history (n=0) Contact history (n=34) Comorbidities (N=18)	Fever (n=35), cough (n=11), fatigue (n=33), dyspnea (n=24), diarrhea (n=4), nausea or vomiting (n=33), sore throat or nasal symptoms (n=26), neurological (n=5), rashes (n=2), asymptomatic (n=7)	Mechanical ventilation (n=3), antiviral (n=2), antibiotics (n=46), IVIG (n=1), systemic steroids (n=2), inotropes (n=1)	Recovered (n=58) ICU admission (n=4) Death (n=1)
Schwartz, D 2020	Iran	LMIC	17	Patients admitted in hospital	Newborns	10	Travel history (n=0) Contact history (n=11) Comorbidities (NR)	Fever (n=4), cough (n=3), fatigue (n=17), dyspnea (n=12), diarrhea (n=1), abdominal pain (n=1), asymptomatic (n=2)	Mechanical ventilation (n=4), antibiotics (n=5), antimalarial (n=1), inotropes (n=1)	Recovered (n=7) ICU admission (n=4) Death (n=2)
Schwartz, S 2020	USA	HIC	4	Patients admitted in hospital	12.0	2	Travel history (n=0) Contact history (n=0) Comorbidities (N=3)	Fever (n=4), cough (n=3), fatigue (n=3), dyspnea (n=3), diarrhea (n=2), nausea or vomiting (n=3), abdominal pain (n=2), sore throat or nasal symptoms (n=2), rashes (n=1)	Mechanical ventilation (n=2), antiviral (n=2), systemic steroids (n=1), inotropes (n=1)	Recovered (n=4) ICU admission (n=4) Death (n=0)
Jain, S 2020	India	LMIC	23	Patients admitted in hospital	7.3	11	Travel history (n=0) Contact history (n=8) Comorbidities (NR)	Fever (n=23), cough (n=0), fatigue (n=3), dyspnea (n=11), diarrhea (n=15), nausea or vomiting (n=15), abdominal pain (n=12), sore throat or nasal symptoms (n=0), kawasaki signs (n=23),	Mechanical ventilation (n=9), IVIG (n=15), systemic steroids (n=22) inotropes (n=15)	Recovered (n=22) ICU admission (n=15) Death (n=1)

								rashes (n=14), conjunctivitis (n=11)		
Webb, K 2020	South Africa	LMIC	23	Patients admitted in hospital	6.6	6	Travel history (n=0) Contact history (n=3) Comorbidities (N=8)	Fever (n=23), cough (n=0), fatigue (n=8), dyspnea (n=10), diarrhea (n=13), nausea or vomiting (n=0), abdominal pain (n=15), sore throat or nasal symptoms (n=0), neurological (n=5), kawasaki signs (n=16), rashes (n=20), conjunctivitis (n=15)	Mechanical ventilation (n=6), IVIG (n=23), systemic steroids (n=15) inotropes (n=9), aspirin (n=17)	Recovered (n=15) ICU admission (n=12) Death (n=0)
van der Zalm, M 2020	South Africa	LMIC	159	Patients presenting to hospital	4.5	88	Travel history (NR) Contact history (NR) Comorbidities (N=33)	Fever (n=50), cough (n=72), fatigue (n=0), dyspnea (n=27), diarrhea (n=22), nausea or vomiting (n=18), abdominal pain (n=0), sore throat or nasal symptoms (n=18), neurological (n=20), kawasaki signs (n=3), rashes (n=6)	Mechanical ventilation (n=4)	Recovered (n=149) ICU admission (n=11) Death (n=1)
Sethuraman, U 2020	USA	HIC	34	Patients presenting to emergency department of the hospital	6.0	16	Travel history (n=0) Contact history (n=6) Comorbidities (N=11)	Fever (n=30), cough (n=0), fatigue (n=0), dyspnea (n=1), diarrhea (n=13), nausea or vomiting (n=14), abdominal pain (n=20), sore throat or nasal symptoms (n=9), rashes (n=19), conjunctivitis (n=9)	Mechanical ventilation (n=8), IVIG (n=24), inotropes (n=10), aspirin (n=24)	Recovered (n=34) ICU admission (n=24) Death (n=0)
Onal, P 2020	Turkey		37		10.0	20	Travel history (n=0)	Fever (n=26), cough (n=28), fatigue (n=18), dyspnea (n=13), diarrhea	Mechanical ventilation (n=1), antivirals (n=22)	Recovered (n=37)



		LMIC		Patients presenting to hospital			Contact history (n=29) Comorbidities (N=10)	(n=4), nausea or vomiting (n=8), abdominal pain (n=12), sore throat or nasal symptoms (n=12), neurological (n=11), asymptomatic (n=2)	antibiotics (n=24), IVIG (n=19), antimalarials (n=14)	ICU admission (n=10) Death (n=0)
Rabha, A 2020	Brazil	LMIC	115	Patients admitted in hospital	3.3	66	Travel history (n=0) Contact history (n=86) Comorbidities (N=30)	Fever (n=79), cough (n=59), fatigue (n=31), dyspnea (n=15), diarrhea (n=15), nausea or vomiting (n=20), abdominal pain (n=10), sore throat or nasal symptoms (n=17), rashes (n=5), neurological (n=23), asymptomatic (n=3)	antibiotics (n=24)	Recovered (n=115) ICU admission (n=12) Death (n=0)
Shahbaz nejad, L 2020	Iran	LMIC	10	Patients admitted in hospital	5.4	6	Travel history (n=0) Contact history (n=10) Comorbidities (N=0)	Fever (n=10), fatigue (n=2), dyspnea (n=2), diarrhea (n=7), nausea or vomiting (n=6), abdominal pain (n=9), sore throat or nasal symptoms (n=4), rashes (n=8), kawasaki signs (n=10), neurological (n=1), conjunctivitis (n=3)	Antivirals (n=1), antibiotics (n=10), IVIG (n=6), systemic steroids (n=2), antimalarial (n=8) inotropes (n=2), aspirin (n=3)	Recovered (n=9) ICU admission (n=3) Death (n=1)
Storch-de-Garcia, P 2020	Spain	HIC	39	Patients admitted in hospital	8.5	23	Travel history (n=0) Contact history (n=27) Comorbidities (N=5)	Fever (n=32), cough (n=20), fatigue (n=13), dyspnea (n=9), diarrhea (n=14), nausea or vomiting (n=15), abdominal pain (n=12), sore throat or nasal symptoms (n=18), rashes (n=10), kawasaki signs	Antivirals (n=13), antibiotics (n=25), IVIG (n=4), systemic steroids (n=15), antimalarial (n=15), aspirin (n=12)	Recovered (n=39) ICU admission (n=14) Death (n=0)

								(n=11), neurological (n=7), asymptomatic (n=7)		
García-Salido, A 2020	Spain	HIC	74	47 pediatric intensive care centres	7.7	46	Travel history (n=0) Contact history (n=13) Comorbidities (N=22)	Fever (n=61), cough (n=26), fatigue (n=48), dyspnea (n=23), diarrhea (n=33), nausea or vomiting (n=38), abdominal pain (n=33), sore throat or nasal symptoms (n=11), kawasaki signs (n=45), neurological (n=22)	Mechanical ventilation (n=18), antivirals (n=35), antibiotics (n=65), IVIG (n=25), systemic steroids (n=49), antimalarial (n=43), inotropes (n=37)	Recovered (n=65) ICU admission (n=74) Death (n=3)
Lima-setta, F 2020	Brazil	LMIC	56	17 pediatric intensive care centres	6.3	39	Travel history (n=0) Contact history (n=27) Comorbidities (N=11)	Fever (n=56), cough (n=16), fatigue (n=28), dyspnea (n=9), diarrhea (n=30), nausea or vomiting (n=21), abdominal pain (n=30), sore throat or nasal symptoms (n=17), rashes (n=38), kawasaki signs (n=26), neurological (n=27), conjunctivitis (n=26)	Mechanical ventilation (n=6), antivirals (n=5), antibiotics (n=33), IVIG (n=50), systemic steroids (n=31), aspirin (n=25)	Recovered (n=53) ICU admission (n=56) Death (n=1)
Zachariah, P 2020	USA	HIC	50	Patients admitted in hospital	11.5	27	Travel history (n=0) Contact history (n=9) Comorbidities (N=33)	Fever (n=40), cough (n=23), dyspnea (n=17), diarrhea (n=7), nausea or vomiting (n=7), abdominal pain (n=7), sore throat or nasal symptoms (n=6), neurological (n=3)	Mechanical ventilation (n=9), antivirals (n=4), IVIG (n=1), antimalarial (n=15)	Recovered (n=47) ICU admission (n=9) Death (n=1)
Kalamdani, P 2020	India	LMIC	12	Patients admitted in hospital	Newborns	8	Travel history (n=0) Contact history (n=12)	Fever (n=3), fatigue (n=2)	NR	Recovered (n=12) ICU admission (n=0) Death (n=0)

							Comorbidities (NR)			
Colomer, B 2020	Spain	HIC	40	Cases from a National Registry supported by the Spanish Society of Neonatology	Newborns	25	Travel history (n=0) Contact history (n=36) Comorbidities (N=15)	Fever (n=18), cough (n=9), fatigue (n=4), dyspnea (n=7), diarrhea (n=2), nausea or vomiting (n=4), sore throat or nasal symptoms (n=5), rashes (n=1), asymptomatic (n=10)	Antivirals (n=1), antibiotics (n=8), IVIG (n=19), antimalarial (n=5)	Recovered (n=40) ICU admission (n=8) Death (n=0)
Dhanalakshmi, K 2020	India	LMIC	19	Patients admitted in hospital	7.2	8	Travel history (n=0) Contact history (n=0) Comorbidities (N=1)	Fever (n=19), dyspnea (n=8), diarrhea (n=3), nausea or vomiting (n=6), abdominal pain (n=8), sore throat or nasal symptoms (n=9), rashes (n=12), neurological (n=6), kawasaki signs (n=7), conjunctivitis (n=9)	Antibiotics (n=19), IVIG (n=15), systemic steroids (n=11) inotropes (n=6), aspirin (n=16)	Recovered (n=19) ICU admission (n=12) Death (n=0)
Falah, N 2020	Pakistan	LMIC	10	Patients admitted in 2 hospitals	6.0	8	Travel history (n=0) Contact history (n=2) Comorbidities (N=0)	Fever (n=10), cough (n=2), fatigue (n=4), dyspnea (n=2), diarrhea (n=3), abdominal pain (n=5), sore throat or nasal symptoms (n=6), rashes (n=8), neurological (n=6), kawasaki signs (n=5), conjunctivitis (n=9)	Antivirals (n=1), antibiotics (n=6), IVIG (n=9), systemic steroids (n=3) inotropes (n=4), aspirin (n=7)	Recovered (n=10) ICU admission (n=7) Death (n=0)
Zheng, G 2020	China	LMIC	52	Patients admitted in 11 hospitals	8.5	28	Travel history (n=52) Contact history (n=42) Comorbidities (N=0)	Fever (n=21), cough (n=25), fatigue (n=5), diarrhea (n=1), nausea or vomiting (n=1), abdominal pain (n=1), sore throat or nasal	Antivirals (n=43), antibiotics (n=25)	Recovered (n=52) ICU admission (n=0) Death (n=0)

								symptoms (n=3), asymptomatic (n=13)		
Almoosa, Z 2020	Saudi Arabia	HIC	10	Patients admitted in 2 hospitals	7.6	5	Travel history (n=0) Contact history (n=6) Comorbidities (N=5)	Fever (n=10), fatigue (n=5), dyspnea (n=3), diarrhea (n=7), nausea or vomiting (n=9), abdominal pain (n=9), Kawasaki signs (n=10), rashes (n=10), conjunctivitis (n=9)	Mechanical ventilation (n=2), antivirals (n=7), antibiotics (n=10), IVIG (n=10), antimalarials (n=10), systemic steroids (n=17) inotropes (n=5), aspirin (n=4)	Recovered (n=8) ICU admission (n=8) Death (n=2)
Alsharrah, D 2020	Kuwait	HIC	134	Patients admitted in hospital	8.7	74	Travel history (n=19) Contact history (n=110) Comorbidities (N=15)	Fever (n=75), cough (n=100), asymptomatic (n=91)	Antibiotics (n=11)	Recovered (n=133) ICU admission (n=0) Death (n=0)
Prata-Barbosa, A 2020	Brazil	LMIC	79	19 pediatric intensive care centres	4.8	43	Travel history (NR) Contact history (NR) Comorbidities (N=32)	Fever (n=59), cough (n=40), fatigue (n=35), dyspnea (n=23), diarrhea (n=16), nausea or vomiting (n=16), abdominal pain (n=16), sore throat or nasal symptoms (n=17), kawasaki signs (n=5)	Mechanical ventilation (n=14), antivirals (n=34), antibiotics (n=60), systemic steroids (n=18) inotropes (n=12), aspirin (n=17)	Recovered (n=71) ICU admission (n=79) Death (n=2)
Bayesheva, D 2020	Kazakhstan	LMIC	650	Data was reported from the official medical electronic database of the Country	7.1	366	Travel history (NR) Contact history (NR) Comorbidities (N=76)	Fever (n=59), cough (n=96), fatigue (n=7), dyspnea (n=12), diarrhea (n=13), asymptomatic (n=315), sore throat or nasal symptoms (n=119), rashes (n=1)	Mechanical ventilation (n=3)	Recovered (n=650) ICU admission (n=6) Death (n=0)
Bustos-Cordova, E 2020	Mexico		50		5.9	35	Travel history (NR)	Fever (n=35), cough (n=22), fatigue (n=21), dyspnea (n=10), diarrhea		Recovered (n=50)

		LMIC		Patients presenting to tertiary care centre outpatient department			Contact history (NR) Comorbidities (N=26)	(n=11), nausea or vomiting (n=11), abdominal pain (n=11), sore throat or nasal symptoms (n=25), rashes (n=4), kawasaki signs (n=1), conjunctivitis (n=11)	Mechanical ventilation (n=2), antibiotics (n=15)	ICU admission (n=2) Death (n=1)
Bhavsar, M 2020	USA	HIC	81	Patients admitted in 12 hospitals in the city	14.7	40	Travel history (NR) Contact history (NR) Comorbidities (N=21)	Fever (n=63), cough (n=38), diarrhea (n=26), nausea or vomiting (n=26), abdominal pain (n=26), neurological (n=7), rashes (n=8), conjunctivitis (n=7)	Mechanical ventilation (n=3), antivirals (n=6), IVIG (n=1), systemic steroids (n=15), antimalarials (n=10), inotropes (n=9), aspirin (n=1)	Recovered (n=71) ICU admission (n=28) Death (n=1)
Montoya, J 2020	Peru	LMIC	69	Cancer patients admitted to tertiary care centres	6.0	44	Travel history (n=0) Contact history (n=20) Comorbidities (N=69)	Fever (n=12), cough (n=12), dyspnea (n=11), diarrhea (n=3), nausea or vomiting (n=3), abdominal pain (n=2), sore throat or nasal symptoms (n=11), rashes (n=1), asymptomatic (n=37)	Antibiotics (n=9), interferon (n=9), systemic steroids (n=9)	Recovered (n=56) ICU admission (n=3) Death (n=7)

NR= Not reported

LMIC: Low and middle-income Country, HIC: High-income Country

**Table 4: Age Distribution from 91 studies of disease prevalence**

<b>Age</b>	<b>Frequency (%)</b>
0 to ≤5 years	3149 (36.9)
>5 to ≤10 years	1668 (19.6)
>10 years	3712 (43.5)
Total	8529

**Table 5: Age Distribution from 67 case series of clinical features and outcomes**

	Age bands		
	0 to ≤5 years	>5 to ≤10 years	>10 years
<b>Clinical features</b> Frequency (%)			
Fever	99/181 (54.7)	87/133 (65.4)	60/132 (45.4)
Asymptomatic	43/1053 (4.0)	45/654 (7.0)	48/880 (5.4)
Cough	46/181 (25.4)	33/133 (24.8)	23/132 (17.4)
Nasal symptoms/sore throat	22/181 (12.1)	16/133 (12.0)	5/132 (3.8)
Dyspnea	15/181 (8.3)	10/133 (7.5)	13/132 (9.9)
Diarrhea	29/181 (16.0)	48/133 (36.1)	36/132 (27.3)
Nausea and vomiting	29/181 (16.0)	40/133 (30.0)	33/132 (25.0)
Abdominal pain	27/181 (15.0)	47/133 (35.3)	30/132 (22.7)
Fatigue	13/181 (7.2)	7/133 (5.2)	5/132 (3.8)
Neurological signs	8/181 (4.4)	21/133 (15.8)	16/132 (12.1)
Kawasaki signs	15/181 (8.3)	24/133 (18.0)	8/132 (6.0)
Rash	24/181 (13.2)	27/133 (20.3)	20/132 (15.1)
Conjunctivitis	23/181 (12.7)	8/133 (6.0)	18/132 (13.6)
<b>Outcomes</b> Frequency (%)			
Recovered	176/196 (89.8)	119/127 (93.7)	146/160 (91.2)
Severe/ICU admission	188/1708 (11.0)	102/834 (12.2)	131/1134 (11.6)
Not yet discharged	19/196 (9.7)	6/127 (4.7)	8/160 (5.0)
Deaths	1/1360 (0.07)	2/742 (0.3)	11/908 (1.2)

**Table 6: Clinical symptoms among MISC from 31 studies**

<b>Characteristics</b>	<b>Events/total patients</b>	<b>Mean proportion % (95% CI)</b>
Comorbidity	264/1182	24.7 (20.1-29.9)
Fever	1008/1208	94.2 (88.7-97.1)
Kawasaki shock/sign	708/1208	68.0 (56.0-78.1)
Abdominal pain	313/548	58.1 (49.6-66.1)
Diarrhea	308/563	54.0 (45.9-61.9)
Conjunctivitis	461/1163	49.2 (40.2-58.2)
Nausea/vomiting	280/563	48.7 (38.5-59.0)
Rashes	540/1163	46.5 (43.4-49.7)
Dyspnea	220/1181	22.4 (17.1-28.8)
Neurological symptoms	184/1206	19.0 (12.8-27.3)
Fatigue	104/626	16.3 (9.6-26.3)
Cough	94/766	15.1 (10.1-22.2)
Nasal symptoms	310/1124	12.1 (6.9-20.5)
Pharyngeal erythema	298/1099	10.3 (5.5-18.6)
<b>Clinical management</b>		
IVIG	618/1207	69.1 (55.1-80.4)
Inotropes	255/934	45.5 (34.3-57.2)
Antibiotics	317/1021	38.6 (19.9-61.3)
Aspirin	201/951	31.7 (19.5-47.1)
Systemic steroids	522/1207	52.9 (41.6-63.8)
Mechanical ventilation	208/1204	20.2 (13.9-28.4)
Antimalarial	60/954	7.3 (3.0-16.8)
Antiviral	63/1015	6.9 (3.8-12.4)
<b>Clinical outcomes</b>		
Recovered	1099/1208	91.8 (86.8-95.1)
ICU admission	638/1208	47.1 (43.1-51.1)
Deaths	39/1208	4.8 (3.6-6.3)



**Table 7: Clinical symptoms among neonates from 11 studies**

<b>Characteristics</b>	<b>Events/total patients</b>	<b>Mean proportion % (95% CI)</b>
Comorbidity	53/184	28.0 (16.5-43.3)
Fever	90/184	47.6 (35.8-59.7)
Dyspnea	50/146	39.1 (22.1-59.2)
Inability to feed/Lethargy	62/158	35.4 (16.7-59.9)
Nausea/vomiting	38/146	34.4 (25.9-44.0)
Nasal symptoms	36/146	29.9 (22.3-38.9)
Cough	28/158	19.2 (13.6-26.3)
Asymptomatic	21/146	16.6 (11.2-23.9)
Pharyngeal erythema	8/146	11.4 (4.8-24.9)
Diarrhea	8/146	7.6 (4.1-13.4)
Neurological symptoms	5/146	7.3 (3.8-13.5)
Rashes	3/146	5.3 (2.4-11.0)
<b>Clinical management</b>		
Antibiotics	86/166	48.7 (39.6-58.0)
Mechanical ventilation	8/140	10.7 (5.2-20.8)
Antimalarial	6/140	9.6 (5.1-17.6)
Antiviral	3/140	6.4 (3.0-12.9)
IVIG	2/140	6.3 (2.4-15.4)
Inotropes	2/140	6.3 (2.4-15.4)
Systemic steroids	2/140	6.3 (2.4-15.4)
<b>Clinical outcomes</b>		
Recovered	146/184	77.8 (55.7-90.7)
ICU admission	22/184	16.0 (7.6-30.7)
Deaths	7/184	8.8 (4.9-15.3)

**Table 8: Quality assessment of included studies (N=129)**

Study and year	Was the study question or objective clearly stated?	Was the study population clearly and fully described, including a case definition?	Were the cases consecutive?	Were the subjects comparable?	Was the intervention clearly described?	Were the outcome measures clearly defined, valid, reliable, and implemented consistently across all study participants?	Was the length of follow-up adequate?	Were the statistical methods well described?	Were the results well described?	Overall Quality (Good, fair or poor)
Qiu, H 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Wang, D 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Zheng, F 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	No	5
Xia, W 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	No	6
Feng, K 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	No	6
Cai, J 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	No	6
Wei, M 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Su, L 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Zhou, Y 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Sun, D 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Liu, W 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Hu, Z 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Liu, M 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Liu, H 2020	Yes	No	Yes	Yes	NA	Yes	No	Yes	No	5
Lou, MX 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Zhang, T 2020	Yes	No	No	Yes	NA	Yes	Yes	Yes	Yes	6
Li, Y 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Ji, LN 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Tagarro, A 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Chen, A 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	No	5
See, KC 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8

Zhang, GX 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Cheng, X 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Tang, A 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Zhu, L 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Tan, X 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Ma, H 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Shen, Q 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Schwierzeck, V 2020	Yes	No	Yes	Yes	NA	Yes	No	Yes	No	5
Jiang, JY 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Riphagen, S 2020	Yes	No	Yes	Yes	NA	Yes	Yes	Yes	Yes	7
Shekerdemian, LS 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Verdoni, L 2020	Yes	No	Yes	Yes	NA	Yes	Yes	Yes	Yes	7
Rahimzadeh, G 2020	Yes	No	Yes	Yes	NA	Yes	Yes	Yes	Yes	7
Tullie, L 2020	Yes	No	No	Yes	NA	Yes	Yes	Yes	Yes	6
Sajid, MI 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Zhang, ZJ 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Zeng, L 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Salvatori, G 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Zhang, X 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Wu, HP 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Zhang, H 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Chao, JY 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Eghbali, A 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Chiotos, K 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Flores, V 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
García-Salido, A 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Cabrero-Hernández, M 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Waltuch, T 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7

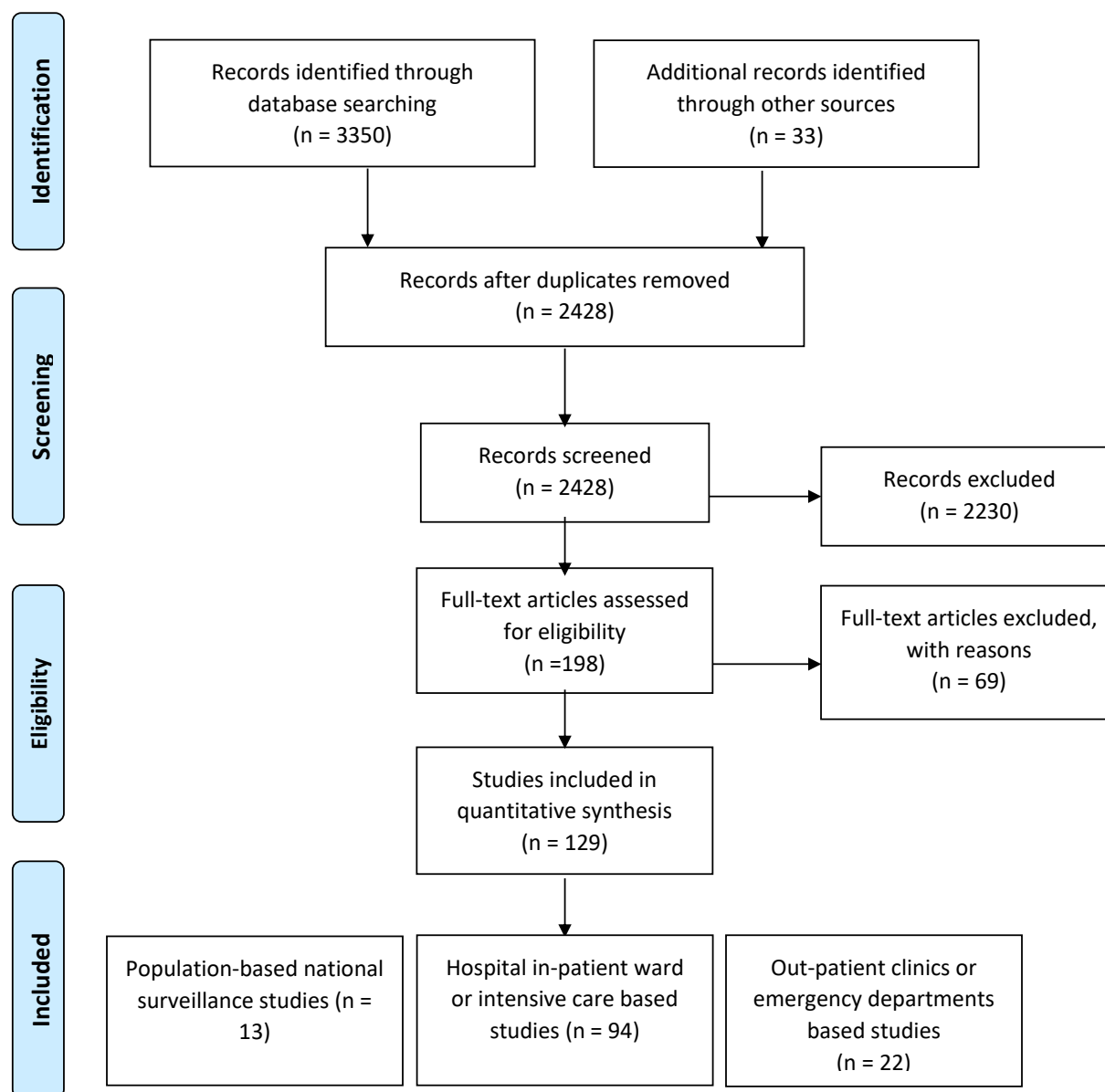
Kakuya, F 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Soltani, J 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Toubiana, J 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Foster, CE 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
White, A 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Lin, EE 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	No	5
Gao, Y 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Harman, K 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Blondiaux, E 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Pouletty, M 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Whittaker, E 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Cheung, EW 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Lu, X 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
CDC, COVID 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Gotzinger, F 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Dong, Y 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Abdel-Mannan, O 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Guha, A 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Bhumbra, S 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Bisogno, G 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Blumfield, E 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Derespina, KR 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Feldstein, LR 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6

George, S 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Gonzalez-Cortes, R 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Kainth, MK 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Kaushik, S 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Kest, H 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Korkmaz, MF 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Meslin, P 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Moraleda, C 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	No	6
Foong, Ng 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Pacquette, D 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Parri, N 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Perez, A 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	No	6
Sarang, B 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	No	6
Sadiq, M 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Swann, OV 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Antunez-Montez, O 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Capone, C 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Cura Yayla, B 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	No	6
Davies, P 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
de Farias, E 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Dima, M 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Han, M 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Ibrahim, L 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Kilani, M 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Okarska-Napierala, P 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	No	6

Mahmoudi, S 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Mamishi, S 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Mithal, L 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Newman, A 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Torres, J 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Saha, S 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	No	5
Gale, C 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	No	6
Schwartz, D 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	No	5
Schwartz, S 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Jain, S 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Webb, K 2020	Yes	No	No	Yes	NA	Yes	No	Yes	Yes	5
van der Zalm, M 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	No	6
Sethuraman, U 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Onal, P 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Rabha, A 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8
Shahbaznejad, L 2020	Yes	No	No	Yes	NA	Yes	Yes	Yes	Yes	6
Storch-de-Garcia, P 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
García-Salido, A 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Lima-setta, F 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Zachariah, P 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Kalamdani, P 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Colomer, B 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	8

Dhanalakhmsi, K 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Falah, N 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Zheng, G 2020	Yes	No	Yes	Yes	NA	Yes	Yes	Yes	Yes	7
Almoosa, Z 2020	Yes	Yes	No	Yes	NA	Yes	Yes	Yes	Yes	7
Alsharrah, D 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Prata-Barbosa, A 2020	Yes	Yes	Yes	Yes	NA	Yes	No	Yes	Yes	7
Bayesheva, D 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Bustos-Cordova, E 2020	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	No	7
Bhavsar, M 2020	Yes	Yes	No	Yes	NA	Yes	No	Yes	Yes	6
Montoya, J 2020	Yes	No	Yes	Yes	NA	Yes	No	Yes	Yes	6

Figure1: Flow diagram of the systematic review process





**Figure 2: Global map of distribution of the studies included (N=129) in the review**



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