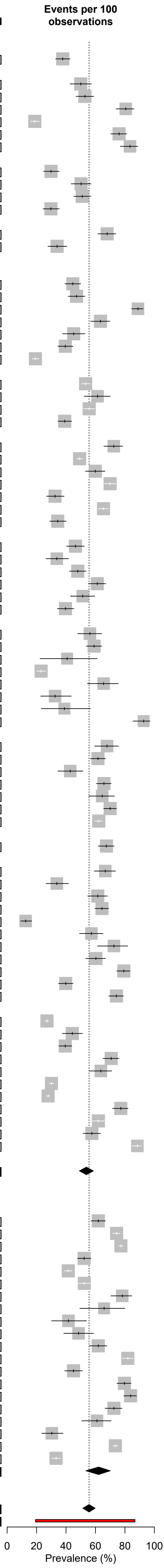
Study	Number	Total	Prevalence (%)	95%CI
COVID19 = No				
Abdali et al., 2019	151	400	37.8	[33.0; 42.7]
Abdulghani et al., 2012	.	491		
AL Khani et al., 2019	100	200	50.0	[42.9; 57.1]
Al otaibi et al., 2020	149	282	52.8	[46.8; 58.8]
Al Shammari et al., 2020	145	180	80.6	[74.0; 86.1]
Al Sulami et al., 2019	132	702	18.8	[16.0; 21.9]
Almojali et al., 2017	200	263	76.0	[70.4; 81.1]
Alnomsi et al., 2018	141	169	83.4	[77.0; 88.7]
AlQahtani et al., 2017	.	237		
Alsaggaf et al., 2016	91	305	29.8	[24.8; 35.3]
Alshahrani et al., 2019	113	225	50.2	[43.5; 56.9]
Amiri et al., 2020	153	300	51.0	[45.2; 56.8]
Asiri et al., 2018	85	286	29.7	[24.5; 35.4]
Atlam et al., 2020	.	899		
Attal et al., 2021	163	240	67.9	[61.6; 73.8]
Awasthi et al., 2020	75	221	33.9	[27.7; 40.6]
BaHammam et al., 2005	.	129		
Belingheri et al., 2020	.	215		
Bogati et al., 2020	156	350	44.6	[39.3; 49.9]
Brick et al., 2010	148	314	47.1	[41.5; 52.8]
Brubaker et al., 2020	255	287	88.9	[84.6; 92.2]
Chatterjee et al., 2021	142	224	63.4	[56.7; 69.7]
Christodoulou et al., 2021	80	177	45.2	[37.7; 52.8]
Correa et al., 2017	147	372	39.5	[34.5; 44.7]
Dudo et al., 2022	212	1103	19.2	[16.9; 21.7]
ElArab et al., 2014	.	435		
Elwasify et al., 2016	630	1182	53.3	[50.4; 56.2]
Ergin et al., 2021	78	127	61.4	[52.4; 69.9]
Fawzy and Hamed 2017	390	700	55.7	[51.9; 59.4]
Feng et al., 2022	176	450	39.1	[34.6; 43.8]
Giri et al., 2013	.	50		
Gladius et al., 2018	147	203	72.4	[65.7; 78.4]
Gui et al., 2022	1302	2646	49.2	[47.3; 51.1]
Gupta et al., 2020	133	222	59.9	[53.1; 66.4]
Ibrahim et al., 2017	403	576	70.0	[66.0; 73.7]
James et al., 2011	83	255	32.5	[26.8; 38.7]
Javaid et al., 2020	530	810	65.4	[62.0; 68.7]
Jniene et al., 2019	101	294	34.4	[28.9; 40.1]
Johnson et al., 2017	.	307		
Kalyani et al., 2017	129	278	46.4	[40.4; 52.5]
Kang and Chen et al., 2009	54	160	33.8	[26.5; 41.6]
Kawyannejad et al., 2019	154	321	48.0	[42.4; 53.6]
Khero et al., 2019	172	281	61.2	[55.2; 66.9]
Kumar et al., 2019	77	150	51.3	[43.0; 59.6]
Kumar et al., 2016	122	308	39.6	[34.1; 45.3]
Lamoria et al., 2020	.	170		
Lawson et al., 2019	86	153	56.2	[48.0; 64.2]
Li et al., 2022	215	364	59.1	[53.8; 64.2]
Lima et al., 2002	11	27	40.7	[22.4; 61.2]
Maheshwari et al., 2019	184	797	23.1	[20.2; 26.2]
Mazar et al., 2021	57	87	65.5	[54.6; 75.4]
Mazurkiewicz et al., 2012	28	86	32.6	[22.8; 43.5]
Medeiros et al., 2001	14	36	38.9	[23.1; 56.5]
Meer et al., 2022	89	96	92.7	[85.6; 97.0]
Mirghani et al., 2015	.	140		
Mirghani et al., 2017	95	140	67.9	[59.4; 75.5]
Mohammadbeigi et al., 2016	224	363	61.7	[56.5; 66.7]
Mokros et al., 2017	60	140	42.9	[34.5; 51.5]
Nadeem et al., 2018	238	362	65.7	[60.6; 70.6]
Pagnin et al., 2014	82	127	64.6	[55.6; 72.8]
Patil et al., 2019	324	463	70.0	[65.6; 74.1]
Perotta et al., 2021	840	1350	62.2	[59.6; 64.8]
Prashanth et al., 2015	.	503		
Priya et al., 2017	207	307	67.4	[61.9; 72.6]
Ramamoorthy et al., 2014	.	121		
Rasekhi et al., 2016	118	177	66.7	[59.2; 73.6]
Rathi et al., 2018	54	160	33.8	[26.5; 41.6]
Rique et al., 2013	136	221	61.5	[54.8; 68.0]
Riskawati et al., 2022	286	444	64.4	[59.8; 68.9]
Safhi et al., 2020	41	326	12.6	[9.2; 16.7]
Sahraian and Javadpour 2010	91	159	57.2	[49.2; 65.0]
Sarbazvatan et al., 2017	58	80	72.5	[61.4; 81.9]
Satti et al., 2019	132	219	60.3	[53.5; 66.8]
Saygin et al., 2016	267	337	79.2	[74.5; 83.4]
Shadzi et al., 2020	160	402	39.8	[35.0; 44.8]
Siddiqui et al., 2016	236	318	74.2	[69.0; 78.9]
Soakin et al., 2019	.	44		
Sun et al., 2019	1488	5497	27.1	[25.9; 28.3]
Sundas et al., 2020	96	217	44.2	[37.5; 51.1]
Surani et al., 2015	199	504	39.5	[35.2; 43.9]
Teimouri et al., 2021	205	290	70.7	[65.1; 75.9]
Thaipisuttikul et al., 2022	105	165	63.6	[55.8; 71.0]
Wang et al., 2020	1126	3738	30.1	[28.7; 31.6]
Wang et al., 2016	1694	6085	27.8	[26.7; 29.0]
Waqas et al., 2015	203	263	77.2	[71.6; 82.1]
Wondi et al., 2021	357	576	62.0	[57.9; 66.0]
Yazdi et al., 2016	164	285	57.5	[51.6; 63.4]
Yeluri et al., 2021	352	398	88.4	[84.9; 91.4]
Zailinawati et al., 2009	.	792		
Random effects model		**45855**	**53.8**	**[49.1; 58.5]**
Heterogeneity: I^2 = 98.48% [98.32%; 98.61%], τ^2 = 0.58, p = 0, R_b = 96.27%				
COVID19 = Yes				
Carpi et al., 2022	252	407	61.9	[57.0; 66.7]
Chen et al., 2022	912	1227	74.3	[71.8; 76.8]
Copaja-Corzo et al., 2022	2425	3139	77.3	[75.7; 78.7]
Dhamija et al., 2021	261	499	52.3	[47.8; 56.8]
Ding et al., 2022	633	1524	41.5	[39.0; 44.1]
Eleftheriou et al., 2021	293	559	52.4	[48.2; 56.6]
Fernandes et al., 2022	111	142	78.2	[70.5; 84.7]
Fowler et al., 2022	27	41	65.9	[49.4; 79.9]
Guo et al., 2022	30	72	41.7	[30.2; 53.9]
Mahadule et al., 2022	49	101	48.5	[38.4; 58.7]
Mahgoub et al., 2022	169	273	61.9	[55.9; 67.7]
Meo et al., 2022	336	410	82.0	[77.9; 85.6]
Mishra et al., 2022	128	284	45.1	[39.2; 51.1]
Nsengimana et al., 2023	231	290	79.7	[74.6; 84.1]
Olarte-Durand et al., 2021	260	310	83.9	[79.3; 87.8]
Saguem et al., 2021	182	251	72.5	[66.5; 77.9]
Shafique et al., 2021	61	100	61.0	[50.7; 70.6]
Shrestha et al., 2021	51	168	30.4	[23.5; 37.9]
Tahir et al., 2021	2020	2749	73.5	[71.8; 75.1]
Xie et al., 2020	341	1026	33.2	[30.4; 36.2]
Random effects model		**13572**	**62.1**	**[53.5; 70.0]**
Heterogeneity: I^2 = 98.66% [98.40%; 98.88%], τ^2 = 0.58, p < 0.001, R_b = 96.27%				
Random effects model		**59427**	**55.6**	**[51.5; 59.7]**
Prediction interval				**[19.3; 86.8]**

Heterogeneity: I^2 = 98.79% [98.69%; 98.88%], τ^2 = 0.69, p = 0, R_b = 96.85%
Test for subgroup differences: χ^2_1 = 3.07, df = 1 (p = 0.080)