

Additional file 3 – Overview of publications

PMID	Author	Journal	DOI	Country of origin	Number of participants	Topic	Percentage adherence
32220112	N. Tang, et al.	J Thromb Haemost	10.1111/jth.14817	China	449	Anticoagulation	35.71%
32297985	X. Shi, et al.	J Med Virol	10.1002/jmv.25893	China	184	Antivirals	30.77%
32379955	J. Geleris, et al.	N Engl J Med	10.1056/NEJMoa2012410	USA	1446	Antimalarials	51.61%
32392282	E. S. Rosenberg, et al.	Jama	10.1001/jama.2020.8630	USA	1438	Combination of pharmaceuticals	75.86%
32409486	M. Mahévas, et al.	Bmj	10.1136/bmj.m1844	France	181	Antimalarials	63.33%
32418114	B. Yu, et al.	Sci China Life Sci	10.1007/s11427-020-1732-2	China	550	Antimalarials	23.08%
32427279	R. Fadel, et al.	Clin Infect Dis	10.1093/cid/ciaa601	USA	213	Glucocorticoids	53.33%
32430428	D. Yan, et al.	Eur Respir J	10.1183/13993003.00799-2020	China	120	Antivirals	42.31%
32445881	P. Xu, et al.	Microbes Infect	10.1016/j.micinf.2020.05.012	China	141	Combination of pharmaceuticals	50.00%
32476080	L. Ayerbe, et al.	J Thromb Thrombolysis	10.1007/s11239-020-02162-z	UK	2075	Anticoagulation	34.48%
32492205	T. Yu, et al.	J Med Virol	10.1002/jmv.26129	China	129	Antivirals	34.62%
32496422	M. Yuan, et al.	Shock	10.1097/shk.0000000000001574	China	132	Glucocorticoids	33.33%
32553536	C. C. Price, et al.	Chest	10.1016/j.chest.2020.06.006	USA	239	Monoclonal antibodies	62.07%
32554861	Y. Huang, et al.	Aging (Albany NY)	10.18632/aging.103370	China	238	Combination of pharmaceuticals	21.43%
32565309	X. Li, et al.	Pharmacol Res	10.1016/j.phrs.2020.105036	China	151	Antivirals	38.46%
32569363	G. Rojas-Marte, et al.	Qjm	10.1093/qjmed/hcaa206	USA	193	Monoclonal antibodies	30.77%
32570043	L. Quartuccio, et al.	J Clin Virol	10.1016/j.jcv.2020.104444	Italy	111	Monoclonal antibodies	39.29%
32571831	A. Fernández-Cruz, et al.	Antimicrob Agents Chemother	10.1128/aac.01168-20	Spain	462	Glucocorticoids	62.07%
32593867	J. C. Lagier, et al.	Travel Med Infect Dis	10.1016/j.tmaid.2020.101791	France	3737	Combination of pharmaceuticals	33.33%
32621621	C. Yu, et al.	J Med Virol	10.1002/jmv.26260	China	128	Antivirals	41.38%
32623082	S. Arshad, et al.	Int J Infect Dis	10.1016/j.ijid.2020.06.099	USA	2541	Combination of pharmaceuticals	51.85%
32634602	F. Bani-Sadr, et al.	Int J Antimicrob Agents	10.1016/j.ijantimicag.2020.106077	France	257	Glucocorticoids	32.14%
32652164	R. Rossotti, et al.	J Infect	10.1016/j.jinf.2020.07.008	Italy	222	Monoclonal antibodies	14.29%
32687645	M. Kelly, et al.	Br J Clin Pharmacol	10.1111/bcp.14482	Ireland	134	Combination of pharmaceuticals	15.38%
32699031	D. R. Rivera, et al.	Cancer Discov	10.1158/2159-8290.Cd-20-0941	USA	2186	Combination of pharmaceuticals	50.00%
32706859	S. A. Olender, et al.	Clin Infect Dis	10.1093/cid/ciaa1041	USA	1130	Antivirals	53.57%
32707096	N. Wang, et al.	Cell Host Microbe	10.1016/j.chom.2020.07.005	China	446	Immunomodulators	57.69%
32712334	S. Tong, et al.	Int J Antimicrob Agents	10.1016/j.ijantimicag.2020.106114	China	115	Antivirals	53.85%
32713677	L. M. Canziani, et al.	J Autoimmun	10.1016/j.jaut.2020.102511	Italy	128	Monoclonal antibodies	35.71%
32720702	T. Maeda, et al.	J Med Virol	10.1002/jmv.26365	USA	224	Monoclonal antibodies	46.15%
32721528	P. Sinha, et al.	Int J Infect Dis	10.1016/j.ijid.2020.07.023	USA	255	Monoclonal antibodies	42.86%
32728438	S. W. X. Ong, et al.	Clin Transl Immunology	10.1002/cti2.1159	Singapore	168	Immunomodulators	50.00%
32732245	M. Scarsi, et al.	Ann Rheum Dis	10.1136/annrheumdis-2020-217712	Italy	262	Other pharmaceuticals	39.29%
32736237	Y. Hu, et al.	Biomed Pharmacother	10.1016/j.biopha.2020.110529	China	308	Glucocorticoids	34.62%
32740371	G. Gao, et al.	J Acquir Immune Defic Syndr	10.1097/qai.0000000000002452	China	129	Combination of pharmaceuticals	23.08%
32748578	S. R. Hao, et al.	J Zhejiang Univ Sci B	10.1631/jzus.B2000211	China	104	Combination of pharmaceuticals	42.86%
32755653	B. Davido, et al.	Int J Antimicrob Agents	10.1016/j.ijantimicag.2020.106129	France	132	Combination of pharmaceuticals	44.44%
32763357	M. Kalligeros, et al.	J Glob Antimicrob Resist	10.1016/j.jgar.2020.07.018	USA	108	Antimalarials	21.43%
32767353	A. De Giorgi, et al.	Eur Rev Med Pharmacol Sci	10.26355/eurrev_202008_22511	Italy	151	Antivirals	34.62%

32772069	B. C. Nelson, et al.	Clin Infect Dis	10.1093/cid/ciaa1163	USA	117	Glucocorticoids	53.57%
32776534	A. Giacomelli, et al.	J Med Virol	10.1002/jmv.26407	Italy	172	Combination of pharmaceuticals	46.15%
32784192	S. Roomi, et al.	J Med Internet Res	10.2196/21758	USA	176	Combination of pharmaceuticals	42.31%
32790733	A. Ip, et al.	PLoS One	10.1371/journal.pone.0237693	USA	547	Combination of pharmaceuticals	57.69%
32791263	J. Tian, et al.	Pharmacol Res	10.1016/j.phrs.2020.105127	China	721	Traditional Chinese medicine	51.85%
32795143	Y. Li, et al.	Emerg Microbes Infect	10.1080/22221751.2020.1807885	China	119	Glucocorticoids	42.31%
32795897	M. Wu, et al.	Int Immunopharmacol	10.1016/j.intimp.2020.106873	China	334	Immunomodulators	39.29%
32798660	T. Klopfenstein, et al.	Int J Infect Dis	10.1016/j.ijid.2020.08.024	France	206	Monoclonal antibodies	57.69%
32804611	M. J. Keller, et al.	J Hosp Med	10.12788/jhm.3497	USA	1806	Glucocorticoids	58.62%
32804790	A. C. Hernandez-Romieu, et al.	Crit Care Med	10.1097/ccm.0000000000004600	USA	231	Ventilation	60.71%
32817707	M. Mikulska, et al.	PLoS One	10.1371/journal.pone.0237831	Italy	196	Combination of pharmaceuticals	44.83%
32835257	G. Guaraldi, et al.	Lancet Rheumatol	10.1016/s2665-9913(20)30173-9	Italy	544	Monoclonal antibodies	64.29%
32838323	N. Biran, et al.	Lancet Rheumatol	10.1016/s2665-9913(20)30277-0	USA	764	Monoclonal antibodies	63.33%
32847947	M. Patel, et al.	BMJ Open Respir Res	10.1136/bmjresp-2020-000650	USA	104	Ventilation	40.74%
32852338	J. F. Mather, et al.	Am J Gastroenterol	10.14309/ajg.0000000000000832	USA	878	Other pharmaceuticals	37.93%
32853673	L. Catteau, et al.	Int J Antimicrob Agents	10.1016/j.ijantimicag.2020.106144	Belgium	8075	Antimalarials	41.38%
32857301	H. Rahmani, et al.	Daru	10.1007/s40199-020-00369-2	Iran	213	Combination of pharmaceuticals	28.57%
32859477	A. D. Castelnovo, et al.	Eur J Intern Med	10.1016/j.ejim.2020.08.019	Italy	3451	Antimalarials	62.07%
32860964	J. Rodríguez-Baño, et al.	Clin Microbiol Infect	10.1016/j.cmi.2020.08.010	Spain	778	Combination of pharmaceuticals	51.72%
32872629	F. Albani, et al.	J Clin Med	10.3390/jcm9092800	Italy	1376	Combination of pharmaceuticals	53.57%
32880390	J. Wu, et al.	J Clin Endocrinol Metab	10.1210/clinem/dgaa627	China	1763	Glucocorticoids	48.15%
32881982	A. Rodríguez-Molinero, et al.	PLoS One	10.1371/journal.pone.0238681	Spain	418	Other pharmaceuticals	51.72%
32882767	E. J. Kim, et al.	Yonsei Med J	10.3349/ymj.2020.61.9.826	South Korea	110	Antivirals	25.00%
32885463	J. Ferguson, et al.	J Clin Pharmacol	10.1002/jcph.1749	USA	141	Anticoagulation	27.59%
32903258	M. Majmundar, et al.	PLoS One	10.1371/journal.pone.0238827	USA	205	Glucocorticoids	57.69%
32911000	M. Schiavone, et al.	Int J Cardiol	10.1016/j.ijcard.2020.09.001	Italy	844	Anticoagulation	42.86%
32926319	Z. Shu, et al.	Front Med	10.1007/s11684-020-0803-8	China	293	Traditional Chinese medicine	34.62%
32926320	G. Chen, et al.	Front Med	10.1007/s11684-020-0813-6	China	312	Traditional Chinese medicine	59.26%
32926573	M. Lauriola, et al.	Clin Transl Sci	10.1111/cts.12860	Italy	377	Combination of pharmaceuticals	50.00%
32930657	P. M. Carlucci, et al.	J Med Microbiol	10.1099/jmm.0.001250	USA	932	Antivirals	34.62%
32941741	J. Chen, et al.	Expert Rev Respir Med	10.1080/17476348.2020.1822741	China	200	Combination of pharmaceuticals	40.74%
32941927	R. Huang, et al.	Eur J Pharmacol	10.1016/j.ejphar.2020.173556	China	309	Glucocorticoids	35.71%
32946668	M. R. Pereira, et al.	Am J Transplant	10.1111/ajt.16314	USA	117	Monoclonal antibodies	32.26%
32954492	R. Yang, et al.	Eur J Clin Invest	10.1111/eci.13412	China	175	Glucocorticoids	21.43%
32960147	R. Pereda, et al.	J Interferon Cytokine Res	10.1089/jir.2020.0124	Cuba	761	Immunomodulators	21.43%
32960899	G. Ruiz-Irastorza, et al.	PLoS One	10.1371/journal.pone.0239401	Spain	242	Glucocorticoids	43.33%
32971254	M. Bartoletti, et al.	Clin Microbiol Infect	10.1016/j.cmi.2020.09.014	Italy	513	Glucocorticoids	65.52%
32979572	J. Martínez-Sanz, et al.	Clin Microbiol Infect	10.1016/j.cmi.2020.09.021	Spain	1229	Monoclonal antibodies	56.67%
32988602	O. Breik, et al.	Br J Anaesth	10.1016/j.bja.2020.08.023	UK	164	Ventilation	41.38%
32995704	F. Ionescu, et al.	TH Open	10.1055/s-0040-1716721	USA	127	Anticoagulation	53.57%
32997237	L. Ayerbe, et al.	Intern Emerg Med	10.1007/s11739-020-02505-x	UK	2075	Antimalarials	33.33%
33002613	M. A. Kaminski, et al.	Int J Infect Dis	10.1016/j.ijid.2020.09.1447	USA	125	Monoclonal antibodies	34.62%
33007454	A. J. J. Lammers, et al.	Int J Infect Dis	10.1016/j.ijid.2020.09.1460	Netherlands	1064	Antimalarials	61.54%
33007478	Z. Liu, et al.	Clin Microbiol Infect	10.1016/j.cmi.2020.09.045	China	646	Glucocorticoids	51.72%

33023669	C. Ferrando, et al.	Crit Care	10.1186/s13054-020-03314-6	Spain	199	Ventilation	57.14%
33027192	V. Russo, et al.	J Cardiovasc Pharmacol	10.1097/fjc.0000000000000893	Italy	100	Anticoagulation	26.92%
33035673	M. Rubio-Rivas, et al.	Int J Infect Dis	10.1016/j.ijid.2020.09.1486	Spain	189	Glucocorticoids	57.69%
33038227	R. Rogers, et al.	Clin Infect Dis	10.1093/cid/ciaa1548	USA	241	Other pharmaceuticals	58.62%
33043287	F. Albani, et al.	EClinicalMedicine	10.1016/j.eclinm.2020.100562	Italy	1403	Anticoagulation	68.97%
33043484	F. Ionescu, et al.	Eur J Haematol	10.1111/ejh.13533	USA	3480	Anticoagulation	61.54%
33044019	F. H. Annie, et al.	Pharmacotherapy	10.1002/phar.2467	USA	734	Antimalarials	48.28%
33047335	B. Atallah, et al.	Anaesthesia	10.1111/anae.15300	UAE	188	Anticoagulation	42.31%
33058865	S. Yeramaneni, et al.	Gastroenterology	10.1053/j.gastro.2020.10.011	USA	7000	Other pharmaceuticals	37.04%
33065103	J. C. Rajter, et al.	Chest	10.1016/j.chest.2020.10.009	USA	280	Other pharmaceuticals	58.62%
33068758	E. J. Peters, et al.	Clin Microbiol Infect	10.1016/j.cmi.2020.10.004	Netherlands	1949	Antimalarials	54.84%
33072814	F. Salton, et al.	Open Forum Infect Dis	10.1093/ofid/ofaa421	Italy	173	Glucocorticoids	67.86%
33072869	M. Rivera-Izquierdo, et al.	Med Clin (Engl Ed)	10.1016/j.medcle.2020.06.024	Spain	238	Combination of pharmaceuticals	38.46%
33075378	S. Narain, et al.	Chest	10.1016/j.chest.2020.09.275	USA	5776	Combination of pharmaceuticals	53.57%
33080002	S. Gupta, et al.	JAMA Intern Med	10.1001/jamainternmed.2020.6252	USA	3924	Monoclonal antibodies	64.52%
33090501	J. Qu, et al.	Clin Exp Pharmacol Physiol	10.1111/1440-1681.13425	China	170	Antivirals	38.46%
33093359	J. H. Chow, et al.	Anesth Analg	10.1213/ane.0000000000005292	USA	412	Anticoagulation	58.62%
33097047	W. Gao, et al.	Virology	10.1186/s12985-020-01428-5	China	220	Antivirals	21.43%
33107607	C. Tortajada, et al.	J Med Virol	10.1002/jmv.26635	Spain	115	Glucocorticoids	57.69%
33107664	E. M. H. Padrão, et al.	Acad Emerg Med	10.1111/acem.14160	USA	166	Ventilation	82.14%
33115682	M. Górgolas Hernández-Mora, et al.	Int J Infect Dis	10.1016/j.ijid.2020.10.045	Spain	186	Monoclonal antibodies	42.31%
33117850	M. Kalligeros, et al.	Open Forum Infect Dis	10.1093/ofid/ofaa319	USA	224	Antivirals	50.00%
33122096	R. Derwand, et al.	Int J Antimicrob Agents	10.1016/j.ijantimicag.2020.106214	Germany	141	Combination of pharmaceuticals	46.15%
33127507	M. J. Choi, et al.	Int J Infect Dis	10.1016/j.ijid.2020.10.062	South Korea	4197	Combination of pharmaceuticals	58.62%
33129511	A. Rodríguez-Molinero, et al.	Med Clin (Barc)	10.1016/j.medcli.2020.08.003	Spain	187	Glucocorticoids	48.28%
33133323	T. Sandhu, et al.	Can J Infect Dis Med Microbiol	10.1155/2020/8865954	USA	112	Other pharmaceuticals	50.00%
33137493	S. N. Szenté Fonseca, et al.	Travel Med Infect Dis	10.1016/j.tmaid.2020.101906	Brazil	717	Combination of pharmaceuticals	46.15%
33138975	R. Nadeem, et al.	Heart Lung	10.1016/j.hrtlng.2020.10.009	UAE	149	Anticoagulation	19.23%
33141117	J. Liu, et al.	J Clin Invest	10.1172/jci140617	China	774	Glucocorticoids	48.28%
33148005	J. Shi, et al.	Am J Chin Med	10.1142/s0192415x20500755	China	234	Traditional Chinese medicine	40.74%
33154452	A. Tsai, et al.	Sci Rep	10.1038/s41598-020-76187-y	USA	274	Monoclonal antibodies	44.44%
33165755	I. J. Núñez-Gil, et al.	Intern Emerg Med	10.1007/s11739-020-02543-5	Spain	1021	Combination of pharmaceuticals	50.00%
33172477	C. Wu, et al.	Crit Care	10.1186/s13054-020-03340-4	China	382	Glucocorticoids	72.41%
33181320	N. Shi, et al.	Pharmacol Res	10.1016/j.phrs.2020.105290	China	782	Traditional Chinese medicine	42.86%
33186991	H. H. Billett, et al.	Thromb Haemost	10.1055/s-0040-1720978	USA	3625	Anticoagulation	42.86%
33187911	C. Liu, et al.	Int Immunopharmacol	10.1016/j.intimp.2020.107157	China	473	Other pharmaceuticals	35.71%
33208294	Q. Sun, et al.	Int Immunopharmacol	10.1016/j.intimp.2020.107143	China	771	Immunomodulators	48.28%
33219551	A. Papamanoli, et al.	Eur J Clin Invest	10.1111/eci.13458	USA	447	Glucocorticoids	67.86%
33220354	G. Bozzi, et al.	J Allergy Clin Immunol	10.1016/j.jaci.2020.11.006	Italy	120	Combination of pharmaceuticals	36.67%
33225307	T. C. Lewis, et al.	Crit Care Explor	10.1097/cce.0000000000000283	USA	1000	Monoclonal antibodies	57.14%
33225952	S. Jonmarker, et al.	Crit Care	10.1186/s13054-020-03375-7	Sweden	152	Anticoagulation	57.14%
33275267	J. Y. Liu, et al.	Eur Rev Med Pharmacol Sci	10.26355/eurrev_202011_23854	China	148	Antivirals	26.92%
33277573	V. Spagnuolo, et al.	Sci Rep	10.1038/s41598-020-78039-1	Italy	280	Glucocorticoids	33.33%
33280066	B. Ruiz-Antorán, et al.	Infect Dis Ther	10.1007/s40121-020-00373-8	Spain	506	Monoclonal antibodies	61.54%

33288411	E. Cereda, et al.	Nutrition	10.1016/j.nut.2020.111055	Italy	324	Other pharmaceuticals	17.86%
33298617	J. Tian, et al.	J Immunol	10.4049/jimmunol.2000981	China	195	Monoclonal antibodies	55.56%
33307378	J. Echarte-Morales, et al.	J Electrocardiol	10.1016/j.jelectrocard.2020.11.012	Spain	168	Combination of pharmaceuticals	42.86%
33307734	K. Canoglu, et al.	Ann Saudi Med	10.5144/0256-4947.2020.462	Turkey	154	Anticoagulation	34.62%
33315350	A. Demir, et al.	Turk J Med Sci	10.3906/sag-2009-140	Turkey	109	Other pharmaceuticals	34.62%
33322317	S. F. Ling, et al.	Nutrients	10.3390/nu12123799	UK	444	Other pharmaceuticals	69.23%
33326457	R. Borie, et al.	PLoS One	10.1371/journal.pone.0243961	France	171	Combination of pharmaceuticals	50.00%
33333102	J. Tan, et al.	Virus Res	10.1016/j.virusres.2020.198262	China	333	Combination of pharmaceuticals	34.62%
33333252	M. J. Fisher, et al.	Int J Infect Dis	10.1016/j.ijid.2020.12.021	USA	115	Monoclonal antibodies	46.15%
33337933	R. Pereda, et al.	J Interferon Cytokine Res	10.1089/jir.2020.0188	Cuba	2000	Immunomodulators	23.08%
33339536	Y. Li, et al.	Crit Care	10.1186/s13054-020-03429-w	China	294	Glucocorticoids	50.00%
33342929	Y. Su, et al.	Biosci Trends	10.5582/bst.2020.03340	China	600	Antimalarials	26.92%
33357219	M. Hu, et al.	BMC Pulm Med	10.1186/s12890-020-01354-w	China	105	Ventilation	57.69%
33358502	M. Li, et al.	Am J Med Sci	10.1016/j.amjms.2020.11.005	USA	1938	Monoclonal antibodies	30.77%
33365358	M. Falcone, et al.	Open Forum Infect Dis	10.1093/ofid/ofaa563	Italy	315	Anticoagulation	48.28%
33382449	N. Vernaz, et al.	Swiss Med Wkly	10.4414/smw.2020.20446	Switzerland	840	Combination of pharmaceuticals	53.33%
33382734	X. You, et al.	PLoS One	10.1371/journal.pone.0244128	China	367	Glucocorticoids	55.56%
33382796	J. Walker, et al.	PLoS One	10.1371/journal.pone.0244857	UK	347	Ventilation	69.23%
33408529	A. Potalivo, et al.	Clin Epidemiol	10.2147/cep.S278709	Italy	1424	Ventilation	60.71%
33412395	P. Baghaei, et al.	Int Immunopharmacol	10.1016/j.intimp.2020.107329	Iran	456	Combination of pharmaceuticals	32.14%