

Drug	Target or mechanism (if known)	Prelim results for SARS-CoV-2 trials or case reports (if applicable)	DOI of pertinent prior studies, SARS, MERS, or related RNA viruses	DOI of prelin clinical trials, case reports, or in vitro studies SARS-CoV-2/COVID-19	Accession/Gen ID# or other study identifier (if available)	Study 1 site, structure, est. completion date	Study 2 site, structure, est. completion date	Study 3 site, structure, est. completion date	Study 4 site, structure, est. completion date	Study 5 site, structure, est. completion date	Study 6 site, structure, est. completion date	Study 7 site, structure, est. completion date	Study 8 site, structure, est. completion date
favipiravir	RNA-dependent RNA polymerase	10.1016/j.pharmthera.2020.10.052 10.1177/20400261.20.38483 doi.org/10.1101/2020.09.03.201927	10.1126/ntr.v19.n01.10.1038(41422-020).0382-0 10.1038/41422-020.0382-0	10.1056/NEJMc2001191 10.1038/41422-020.0382-0	NCT04737963, NCT04310228	NCT04737963: 60 participants, randomized open-label sequential assignment, single center - April 30, 2020	NCT04310228: 150 participants, randomized open-label parallel assignment, single center - May 2020						
remdesivir	RNA-dependent RNA polymerase	effective in NCT04280705 (Adaptive COVID-19 Treatment Trial): 440 participants, randomized double-blind parallel assignment, multi-center - April 1, 2021	10.1126/ntr.v19.n01.10.1038(41422-020).0382-0 10.1038/41422-020.0382-0	10.1056/NEJMc2001191 10.1038/41422-020.0382-0	WHO SOLIDARITY, INSERM Discovery (NCT04310486), NCT04307666 (expanded access), NCT04807070 (phase 2), NCT04293899 (phase 3)	WHO SOLIDARITY: large-scale, multi-center, randomized open-label assignment, multi-center - March 2020	INSERM Discovery (NCT04310486): 3100 participants, randomized open-label parallel assignment, multi-center - March 2020	NCT04280705 (Adaptive COVID-19 Treatment Trial): 440 participants, randomized double-blind parallel assignment, multi-center - April 1, 2021	NCT04293899: 400 participants, randomized open-label parallel assignment, single center - May 2020				
β-D-N4-hydroxycytidine	RNA-dependent RNA polymerase	effective at reducing viral load in vitro (lung cell culture) and reducing clinical sequelae in vivo (maca) (Shahzad et al.)	10.1177/09637200.401500302 10.1101/2020.03.19.20078004.full	10.1101/2020.03.19.20078004.full	(trial in planning)								
logivir/ritonavir	viral protease inhibitor	10.1038/nrn.2020.09.005 (PR02-1466080) 10.1116/ntr.v20.03.0129168 10.1016/j.jm.2004.03.003	10.1093/nrl/nyy319 10.1093/nrl/nyy319.2 10.1056/NEJMc2001282	10.1056/NEJMc2001282 10.1056/jpe.2020.03.02	WHO SOLIDARITY, INSERM Discovery (NCT04310486), NCT04807070 (phase 2), NCT0461907, NCT04293899, NCT04315871	WHO SOLIDARITY: large-scale, multi-center, randomized open-label otherwise TBA	INSERM Discovery (NCT04310486): 3100 participants, randomized open-label parallel assignment, multi-center - March 2020	NCT04305031: 530 participants, randomized open-label parallel assignment, multi-center - February 28, 2021	NCT04807070: 150 participants, randomized open-label parallel assignment, multi-center - May 2020	NCT04291729: 11 participants, non-randomized open-label single group assignment, single center - March 19, 2020	NCT04310487: 160 participants, randomized open-label parallel assignment, multi-center - June 30, 2020	NCT04293899: 80 participants, randomized open-label parallel assignment, multi-center - April 14, 2021	NCT04251871: 150 participants, randomized open-label parallel assignment, single center - January 22, 2021
ASC09/ritonavir	viral protease inhibitor				NCT04261907	NCT04261907: 160 participants, randomized open-label parallel assignment, multi-center - June 30, 2020							
darunavir/cobicistat	viral protease inhibitor				NCT04252274 (phase 3)	NCT04252274: 30 participants, randomized open-label parallel assignment, single center - December 31, 2020							
umifenovir (arbidol)	membrane fusion				NCT04286503, NCT04265994 (phase 4)	NCT04286503: 60 participants, randomized open-label sequential assignment, single center - April 30, 2020	NCT04265994: 380 participants, randomized open-label parallel assignment, single center - February 28, 2021	NCT04265994: 380 participants, randomized open-label parallel assignment, single center - December 30, 2020					
losartan	angiotensin II receptor type 1 (AT1)		10.1038/nrn1267		NCT04112009 (phase 2)	NCT04112009: 2000 participants, randomized double-blind parallel assignment, multi-center - April 1, 2021							
chloroquine	viral uncoupling (endosome acidification), ACE2 receptor	effective in cell culture (Wang et al.), lower therapeutic index than hydroxychloroquine (Zhai et al.)	10.1038/nrn1267	10.1038/nrn1267	WHO SOLIDARITY, NCT04303507, NCT04286503	WHO SOLIDARITY: large-scale, multi-center, randomized open-label otherwise TBA	NCT04303507: 40,000 participants, randomized double-blind parallel assignment, multi-center - April 2021	NCT04286503: 520 participants, randomized open-label parallel assignment, single center - February 28, 2021					
hydroxychloroquine	viral uncoupling (endosome acidification), ACE2 receptor	effective in cell culture, lower index than chloroquine (Zhai et al.), improved time to clinical recovery (ITCR) (Chen et al.)	10.1093/nrl/nyy319 10.1101/2020.03.22.20040758	10.1093/nrl/nyy319 10.1101/2020.03.22.20040758	NCT04308668 (phase 2-3), NCT04307663 (phase 2), NCT04261917 (phase 3), HYDRA trial (NCT04315896, phase 3)	NCT04308668: 3000 participants, randomized quadruple-blind parallel assignment, multi-center - May 14, 2020	NCT04307663: 150 participants, randomized open-label parallel assignment, multi-center - May 2020	NCT04261917: 30 participants, randomized open-label parallel assignment, single center - February 25, 2020	HYDRA trial (NCT04315896): 500 participants, randomized quadruple-blind parallel assignment, multi-center - March 22, 2021				
bromhexine HCl	mucolytic				NCT04273763	NCT04273763: 60 participants, randomized open-label sequential assignment, single center - April 30, 2020							
interferon-beta (β)	cellular antiviral induction		10.1093/nrl/nyy319.2	(part of combination therapy trials)									
interferon-alpha (β)	cellular antiviral induction				NCT04737963, NCT04303807 (phase 1), NCT04251871	NCT04737963: 60 participants, randomized open-label sequential assignment, single center - April 30, 2020	NCT04303807: 328 participants, randomized open-label parallel assignment, multi-center - June 30, 2020	NCT04251871: 150 participants, randomized open-label parallel assignment, single center - January 22, 2021					
Interferon-alpha-2a pegylated (Pegypav)	cellular antiviral induction				NCT04291729 (phase 4)	NCT04291729: 11 participants, non-randomized open-label single group assignment, single center - March 19, 2020							
neofarson (recombinant IFNalpha-like)	cellular antiviral induction		10.1186/1475-2875-14.4		NCT04291729 (phase 4)	NCT04291729: 11 participants, non-randomized open-label single group assignment, single center - March 19, 2020							
bevacizumab	VEGF (vascular permeability)				NCT04275414 (phase 2,3)	NCT04275414: 20 participants, non-randomized open-label single group assignment, single center - May 2020							
camostat	TMPPSS2 (cellular senescence), S-protein synthesis	effective in cell culture reducing viral entry (Poffmann et al.)	10.1126/ntr.v19.n01.10.1126(1475-2875).13	10.1016/j.cel.2020.02.052	(trial in planning)								
azithromycin	synergistic with hydroxychloroquine					(part of combination therapy trials)							
						NCT04282902: 294 participants, randomized open-label parallel assignment, single center - June 1, 2020							
perflubron	anti-fibratic (procalcitonin and IL6 growth factors)				NCT04282902 (phase 3)	NCT04282902: 294 participants, randomized open-label parallel assignment, single center - June 1, 2020							
terramine	anti-fibratic				NCT04088117 (phase 4)	NCT04088117: 60 participants, randomized open-label parallel assignment, single center - May 1, 2021							
thalidomide	anti-fibratic, cytokine storm (immunomodulation, anti-inflammatory)				NCT04273529 (phase 2), NCT04273581 (phase 2)	NCT04273529: 100 participants, randomized double-blind parallel assignment, multi-center - June 30, 2020	NCT04273581: 40 participants, randomized double-blind parallel assignment, multi-center - May 30, 2020						

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ceftriaxone	macrolide antibiotic (immunomodulation, anti-inflammatory)				NCT04286503 (phase 4)	NCT04286503 130 participants, randomized open-label parallel assignment, single center - February 28, 2021							
ceftazidime	β-lactamase inhibitor (immunomodulation, anti-inflammatory)				NCT04152988 (phase 2)	NCT04152988 400 participants, randomized open-label parallel assignment, single center - March 16, 2021							
tocilizumab	IL-6 receptor (immunomodulation, anti-inflammatory)	effective in reducing mortality in small Chinese trial (Xu et al.)		10.12074/202003.00026	NCT04102278	NCT04102278 150 participants, randomized open-label parallel assignment, single center - May 2020							
fosfomycin	lipopeptide-1 phosphate receptor (immunomodulation, anti-inflammatory)				NCT04280588 (phase 2)	NCT04280588 30 participants, non-randomized open-label parallel assignment, single center - July 1, 2020							
ecixutumab (Soliris)	complement cascade (immunomodulation, anti-inflammatory)				NCT04288713	NCT04288713 expanded access							
methyprednisolone	corticosteroids (immunomodulation, anti-inflammatory)				NCT04244591 (phase 2)	NCT04244591 400 participants, randomized open-label single group assignment, multi-center - May 30, 2020							
CD34Fc	cytokine inhibition (immunomodulation, anti-inflammatory)				NCT04117040	NCT04117040 230 participants, randomized open-label parallel assignment, multi-center - May 2021							
camrelizumab	PD-1 blocking antibody anti-epetit (immunomodulation, anti-inflammatory)				NCT04288537 (phase 2)	NCT04288537 120 participants, randomized single-blind parallel assignment, single center - October 31, 2020							
thymosin	anti-sepsis (immunomodulation, anti-inflammatory)				NCT04288537 (phase 2)	NCT04288537 120 participants, randomized single-blind parallel assignment, single center - October 31, 2020							
ascorbic acid	anti-sepsis (immunomodulation, anti-inflammatory)				NCT03880274 (phase 3), NCT04264533 (phase 2), NCT04264533 (phase 2)	NCT03880274 800 participants, randomized open-label parallel assignment, multi-center - December 31, 2022							
mesenchymal stem cells (MSC) and MSC derived exosomes	immunomodulation, anti-inflammatory, anti-bacterial activity (secondary infection)				NCT04292118 (phase 1), NCT0428102 (phase 1, 2), NCT04276846, NCT04302519 (phase 1), NCT04280525 (phase 2)	NCT04292118 30 participants, non-randomized open-label single group assignment, single center - July 31, 2020							
APN01	supportive (hACE2 for ARS)				NCT04285190	NCT04285190 120 participants, randomized open-label parallel assignment, single center - September 15, 2020							
T89 (dantrolene)	supportive (systemic oxygen delivery)				NCT04303093 (phase 2), NCT04312243 (phase 2)	NCT04303093 200 participants, randomized single-blind parallel assignment, multi-center - March 21, 2021							
nitric oxide	supportive (systemic oxygen delivery, vasodilation)				NCT04311697 (phase 2)	NCT04311697 120 participants, randomized open-label parallel assignment, multi-center - September 2020							
avilastil (synthetic VEGF)	supportive (vasodilation, bronchodilation)	effective in reducing viral load in preliminary clinical trial (Gourent et al.)			2020-000890-25 (EU Clinical Trials No.) (preliminary study)	2020-000890-25 (EU Clinical Trials No.) 42 participants, non-randomized open-label parallel assignment, single center - completed							
hydroxychloroquine + azithromycin	viral uncoupling (endosome acidification, ACE2 receptor)			10.10963/parimicag.20.030599	NCT04291729 (phase 4)	NCT04291729 11 participants, non-randomized open-label single group assignment, single center - March 19, 2020							
dampirovir (Gilead) + ritonavir v.f. zosteron	protease inhibitor for HCV (dampirovir), combination therapy			10.1021/jm400164c.002 (dampirovir)	NCT04276688 (phase 2)	NCT04276688 70 participants, randomized open-label parallel assignment, single center - July 31, 2021							
lopinavir /ritonavir + interferon beta-1b (C-ribavirin)	combination therapy			10.1186/13063-017-2427-0 (MIRACLE trial for MERS)	NCT04276688 (phase 2)	NCT04276688 70 participants, randomized open-label parallel assignment, single center - July 31, 2021							
lopinavir /ritonavir + ribavirin + interferon-α (interferon-α)	combination therapy			10.3851/jmp.3002.10.1016 (interferon-α.2014.07.026 (registered interferon for MERS))	10.1097/CM9.000000000700	10.1097/CM9.000000000700 listing in progress (ref: Jing et al., 2020)							
Davoginivir + tocilizumab	combination therapy				NCT04102278	NCT04102278 150 participants, randomized open-label parallel assignment, single center - May 2020							
lopinavir /ritonavir + umifenovir	combination therapy	ineffective in small trial in China (Deng et al.)		10.1016/j.jinf.2020.03.002	NCT04252885	NCT04252885 125 participants, randomized open-label parallel assignment, single center - July 31, 2020							
varied multdrug combinations	combination therapy				NCT04032909 (phase 3)	NCT04032909 80 participants, randomized open-label parallel assignment, multi-center - November 30, 2020							
traditional chinese medicine (TCM), herbal extracts	combination therapy				NCT04291729 (phase 4), NCT04251871	NCT04291729 150 participants, non-randomized open-label single group assignment, single center - March 19, 2020							
TCM (Xiyanping) + lopinavir /ritonavir	combination therapy				NCT04295551	NCT04295551 80 participants, randomized open-label parallel assignment, multi-center - April 14, 2021							