

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	clinicaltrials.gov ID(s) or other study identifier and phase (if available)	Study 1 size, structure, est. completion date	Study 2 size, structure, est. completion date	Study 3 size, structure, est. completion date	Study 4 size, structure, est. completion date	Study 5 size, structure, est. completion date	Study 6 size, structure, est. completion date	Study 7 size, structure, est. completion date	Study 8 size, structure, est. completion date
favipiravir	RNA-dependent RNA polymerase		10.1016/j.pharmthera.2020.107552; 10.1177/204002618764883; doi.org/10.1183/pcr.2020.03.027		NCT04737363, NCT04310228	NCT04737363: 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 NEJM case report (Wu et al.) and in cell culture (Wang et al.)	10.1126/scitranslmed.4404953; 10.1038/s41467-020-13960-6	10.1056/NEJMoa2001193; 10.1038/s41422-020-0282-0	WHO SOLIDARITY, INSERM Discovery (NCT04315948), NCT04302766 (expanded access), NCT0480705 (phase 2), NCT0492899 (phase 3)	WHO SOLIDARITY: large-scale, multi-center, randomized open-label otherwise TBA	INSERM Discovery (NCT04315948): 3100 participants, randomized open-label parallel assignment, multi-center – March 2020	NCT0480705: TBA	NCT0480705 (Adaptive COVID-19 Treatment Trial): 440 participants, randomized double-blind parallel assignment, multi-center – April 1, 2021	NCT0492899: 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 (mice) (Shahmoradian et al.)	10.1177/09632002401500302; 10.1101/2020.03.19.99780045.f01	10.1101/2020.03.19.99780045.f01	(trial in planning)								
lopinavir/ritonavir	viral protease inhibitor	mixed efficacy in 2 small Chinese trials (Cao et al., Deng et al.)	10.1038/s41467-020-13960-6; 10.1093/rfs/kuj039.2; 10.1016/j.jm.2018.09.005; (PMID: 34460806); 10.1136/thorax.2003.013618; 10.1096/jm.2004.03.003	10.1056/NEJMoa2001282; 10.1016/j.jm.2020.03.027	WHO SOLIDARITY, INSERM Discovery (NCT04315948), NCT04862055, NCT04307693 (phase 2), NCT0491719 (phase 4), NCT0461907, NCT0495551, NCT04351871	WHO SOLIDARITY: large-scale, multi-center, randomized open-label otherwise TBA	INSERM Discovery (NCT04315948): 3100 participants, randomized open-label parallel assignment, multi-center – March 2020	NCT04862055: 520 participants, randomized open-label parallel assignment, single center – February 28, 2021	NCT04307693: 150 participants, randomized open-label parallel assignment, single center – May 2020	NCT0491719: 11 participants, non-randomized open-label single center – March 15, 2020	NCT0495551: 160 participants, randomized open-label parallel assignment, multi-center – June 30, 2020	NCT04351871: 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: 180 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				NCT04273763, NCT04862055, NCT04260594 (phase 4)	NCT04273763: 60 participants, randomized open-label sequential assignment, single center – April 30, 2020	NCT04862055: 520 participants, randomized open-label parallel assignment, single center – February 28, 2021	NCT04260594: 380 participants, randomized open-label parallel assignment, single center – December 30, 2020					
lozantran	angiotensin II receptor type 1 (AT1)		10.1038/nmi.1267		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 (Xiao et al.)	10.1038/s41467-020-13960-6; 10.1093/rfs/kuj039.2	10.1038/s41422-020-0282-0; 10.1093/s41467-020-13960-6	WHO SOLIDARITY, NCT04303507, NCT0486503	WHO SOLIDARITY: large-scale, multi-center, randomized open-label otherwise TBA	NCT04303507: 40,000 participants, randomized double-blind parallel assignment, multi-center – April 2021	NCT0486503: 520 participants, randomized open-label parallel assignment, single center – February 28, 2021					
hydroxychloroquine	viral uncoupling (endosome acidification), ACE2 receptor	effective in cell culture, viral load, than chloroquine (Xiao et al.); improved time to clinical recovery (TCR) (Chen et al.)	10.1093/rfs/kuj039.2; 10.1101/2020.03.22.20040758	10.1093/s41467-020-13960-6; 10.1101/2020.03.22.20040758	NCT04308668 (phase 2,3), NCT04507853 (phase 2), NCT04815177 (phase 3), HYDRA trial (NCT04315896, phase 3)	NCT04308668: 3000 participants, randomized quadruple-blind parallel assignment, single center – May 12, 2020	NCT04307693: 150 participants, randomized open-label parallel assignment, single center – May 2020	NCT04261517: 30 participants, randomized open-label parallel assignment, single center – February 25, 2020	HYDRA trial (NCT04315896): 500 participants, randomized quadruple-blind parallel assignment, single 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/rfs/kuj039.2		(part of combination therapy trials)		NCT04293887: 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 (β)	cellular antiviral induction				NCT04737363, NCT0493887 (phase 2), NCT04251871	NCT04737363: 60 participants, randomized open-label sequential assignment, single center – April 30, 2020							
interferon-alpha-2a, pegylated (Pegayv)	cellular antiviral induction				NCT04291729 (phase 4)	NCT04291729: 11 participants, non-randomized open-label single group assignment, single center – March 15, 2020							
rosofoson (recombinant IFNalpha-like)	cellular antiviral induction		10.1186/1475-2875-14-8		NCT04291729 (phase 4)	NCT04291729: 11 participants, non-randomized open-label single group assignment, single center – March 15, 2020							
bevacizumab	VEGF (vascular permeability)				NCT04275414 (phase 2,3)	NCT04275414: 20 participants, non-randomized open-label single group assignment, single center – May 2020							
camostat	TMPSK2 (cellular serine protease), S-protein protease	effective in cell culture reducing viral entry (Hoffmann et al.)	10.1126/scitranslmed.4404953; 10.1101/2020.02.05.2	10.1016/s0140-6736(20)00205-2	(trial in planning)								
azithromycin	synergistic with hydroxychloroquine				(part of combination therapy trials)								
edifenidone	anti-fibratic (procollagen I and II, growth factors)				NCT04262902 (phase 3)	NCT04262902: 294 participants, randomized open-label parallel assignment, single center – June 1, 2020							
tetrandrine	anti-fibratic				NCT04308117 (phase 4)	NCT04308117: 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: 100 participants, randomized double-blind parallel assignment, multi-center – May 30, 2020						

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carilumab	macrolide antibiotic (immunomodulation, anti-inflammatory)				NCT04286503 (phase 4)	NCT04286503: 520 participants, randomized open-label parallel assignment, single center – February 26, 2021							
carlumab	IL-6 receptor (immunomodulation, anti-inflammatory)				NCT04115298 (phase 2)	NCT04115298: 400 participants, randomized quadruple-blind parallel assignment, single center – March 16, 2021							
tocilizumab	IL-6 receptor (immunomodulation, anti-inflammatory)	effective in reducing mortality in small Chinese trial (Yu et al.)		10.12074/202003.00026	NCT04102228	NCT04102228: 150 participants, randomized open-label parallel assignment, single center – May 2020							
fangshimod	sphingosine-1-phosphate receptor (immunomodulation, anti-inflammatory)				NCT04280588 (phase 2)	NCT04280588: 30 participants, non-randomized open-label parallel assignment, single center – July 1, 2020							
eculizumab (Soliris)	complement C5/C6 (immunomodulation, anti-inflammatory)				NCT04288713	NCT04288713: expanded access							
methyprednisolone	corticosteroids (immunomodulation, anti-inflammatory)				NCT04733321, NCT04445591 (phase 2)	NCT04733321: 400 participants, randomized open-label single group assignment, single center – May 30, 2020	NCT04445591: 80 participants, randomized open-label parallel assignment, multi-center – December 25, 2020						
CD34Fc	cytokine inhibition (immunomodulation, anti-inflammatory)				NCT04117040	NCT04117040: 230 participants, randomized quadruple-blind parallel assignment, multi-center – May 2021							
canvotuzumab	PD-1 blocking antibody: anti-sepsis (immunomodulation, anti-inflammatory)				NCT04288537 (phase 2)	NCT04288537: 120 participants, randomized single-blind parallel assignment, single center – October 11, 2020							
thymosin	anti-sepsis (immunomodulation, anti-inflammatory)				NCT04288537 (phase 2)	NCT04288537: 120 participants, randomized single-blind parallel assignment, single center – October 11, 2020							
ascorbic acid	anti-sepsis (immunomodulation, anti-inflammatory)				NCT03680274 (phase 3), NCT04264533 (phase 2), NCT04264533 (phase 2)	NCT03680274: 800 participants, randomized quadruple-blind parallel assignment, multi-center – December 31, 2022	NCT04264533: 140 participants, randomized triple-blind parallel assignment, single center – September 30, 2020						
mesenchymal stem cells (MSC) and MSC-derived exosomes	immunomodulation, anti-inflammatory, anti-bacterial activity (secondary infection)				NCT04270446, NCT04302519 (phase 1), NCT04265025 (phase 2)	NCT04270446: 30 participants, non-randomized open-label single group assignment, single center – July 31, 2020	NCT04302519: 20 participants, randomized quadruple-blind parallel assignment, multi-center – December 2021	NCT04265025: 90 participants, randomized open-label parallel assignment, multi-center – December 31, 2021	NCT04273646: 48 participants, randomized open-label parallel assignment, single center – February 15, 2022	NCT04302519: 24 participants, non-randomized open-label single group assignment, single center – July 30, 2021	NCT04265025: 10 participants, non-randomized open-label single group assignment, single center – September 30, 2020		
APN01	supportive (pHACE2 for ARDS)				NCT04292118 (phase 1), NCT04288102 (phase 1, 2), NCT04270446, NCT04302519 (phase 1), NCT04265025 (phase 2)	NCT04292118: 120 participants, randomized open-label parallel assignment, single center – September 15, 2020							
TB9 (taoicost)	supportive (systemic oxygen delivery)				NCT04285190	NCT04285190: 200 participants, randomized single-blind parallel assignment, multi-center – March 21, 2022	NCT04312243: 460 participants, non-randomized open-label parallel assignment, single center – March 20, 2022						
ribic oxide	supportive (systemic oxygen delivery, vasodilation)				NCT04311697	NCT04311697: 120 participants, randomized quadruple-blind parallel assignment, multi-center – September 2020							
aciglatil (synthetic VEGF)	supportive (vasodilation, bronchodilation)	effective in reducing viral load in preliminary clinical trial (Gao et al.)			NCT04311697 (phase 2)	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			10.1096/j.primicmg.2020.00090	2020-000890-25 (EU Clinical Trials No.) 42 participants, non-randomized open-label parallel assignment, single center – completed	NCT04294726: 11 participants, non-randomized open-label single group assignment, single center – March 19, 2020							
dansoprevir (danoprevir) + ritonavir +/- interferon	protease inhibitor for HCV (dansoprevir), combination therapy			10.1021/jm400164c016 (danoprevir)	NCT04291729 (phase 4)	NCT04270446: 70 participants, randomized open-label parallel assignment, single center – July 31, 2021							
lopinavir/ritonavir + interferon beta-1a (n-ribavirin)	combination therapy			10.1186/s13063-017-2427-0 (MIRACLE trial for MERS)	NCT04276688 (phase 2)								
lopinavir/ritonavir + ribavirin + interferon-alpha (interferon-α)	combination therapy			10.3851/IMP3003, 10.1016/j.jantimic.2020.07.026 (pegylated interferon for MERS)	10.1097/CMI.0000000000000790								
Beigipiravir + tocilizumab	combination therapy	ineffective in small trial in China (Dang et al.)		10.1016/j.jint.2020.03.002	NCT04102228	NCT04102228: 150 participants, randomized open-label parallel assignment, single center – May 2020							
lopinavir/ritonavir + umifenovir	combination therapy				NCT04252885	NCT04252885: 125 participants, randomized open-label parallel assignment, single center – July 31, 2020							
varied multi-drug combinations	combination therapy				NCT04303299 (phase 3)	NCT04303299: 80 participants, randomized open-label parallel assignment, multi-center – November 30, 2020							
traditional chinese medicine (TCM), herbal extracts	combination therapy				NCT04251871	NCT04251871: 110 participants, non-randomized open-label single group assignment, single center – March 19, 2020	NCT04251871: 150 participants, randomized open-label parallel assignment, single center – January 22, 2021						
TCM (Xiangpi) + lopinavir/ritonavir	combination therapy				NCT04295551	NCT04295551: 80 participants, randomized open-label parallel assignment, multi-center – April 24, 2021							