



COVID-19 Treatment and Vaccine Tracker

This document contains an aggregation of publicly available information from validated sources. It is not an endorsement of one approach or treatment over another but simply a list of all treatments and vaccines currently in development.

TREATMENTS

Number	Type of Product - Treatment	FDA-Approved Indications	Clinical Trials for Other Diseases	Developer/Researcher	Current Stage of Development	Funding Sources	Clinical Trials for COVID-19	Anticipated Next Steps Timing	Published Results	Sources
ANTIBODIES										
1	TAK-888, antibodies from recovered COVID-19 patients	N/A		Takeda	Pre-clinical			To patients between September 2020 and September 2021		PhRMA Wall Street Journal
2	Antibodies from mice, REGN3048-3051, against the spike protein	N/A		Regeneron	Pre-clinical	Biomedical Advanced Research and Development Authority (BARDA)		Start Phase 1 June 2020		Stat News MarketWatch Reuters Bloomberg News FierceBiotech FiercePharma
3	Antibodies from recovered COVID-19 patients	N/A		Celltrion	Pre-clinical			Start Phase 1 September 2020		Korea Herald
4	Antibodies from recovered COVID-19 patients	N/A		Kamada	Pre-clinical					BioSpace AbbVie
5	Antibodies from recovered COVID-19 patients	N/A		Vir Biotech/WuXi Biologics/Biogen	Pre-clinical			Start Phase 1 ~ July 2020		Stat News Vir Biotech Vir Biotech*
6	Antibodies from recovered COVID-19 patients	N/A		Lilly/Ab-Cellera (NIH Vaccines Research Center)	Pre-clinical			Start Phase 1 in late July 2020		Endpoints News

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7	Avastin (bevacizumab), vascular endothelial growth factor inhibitor	FDA-approved since 2004, approved to treat certain types of cancer		Numerous trials with Chinese research sponsors; Roche	Clinical		NCT04275414 (Qilu Hospital of Shandong University) pilot study* NCT04305106 (Qilu Hospital of Shandong University) investigational study*			BioCentury
8	PD-1 blocking antibody; Thymosin	Unknown		Numerous trials with Chinese research sponsors	Clinical		NCT04268537* ChiCTR2000030028*	Phase 2 primary trial ends April 30, 2020		BioCentury
9	leronlimab (PRO 140), a CCR5 antagonist	N/A	Treatment of HIV/AIDS, Graft versus Host Disease, Non-Alcoholic Steatohepatitis, and numerous cancers	CytoDyn	Clinical					Clinical Trials Arena CytoDyn CytoDyn CytoDyn CytoDyn
10	AiRuiKa (camrelizumab), anti-programmed cell death protein (PD-1) antibody	N/A	Treatment of certain cancers	Wuhan Jinyintan Hospital	Clinical		ChiCTR2000029806*			Hengrui Medicine
11	Kevzara (sarilumab), interleukin-6 receptor antagonist	FDA-approved since 2017, approved to treat rheumatoid arthritis		Sanofi/Regeneron	Clinical		NCT04315298*	Started Phase 2/3 in March 2020		FiercePharma Wall Street Journal Seeking Alpha

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12	Actemra (tocilizumab), interleukin-6 receptor antagonist	FDA-approved since 2010, approved to treat various type of arthritis, including rheumatoid arthritis, and cytokine release syndrome		Numerous trials with global research sponsors; Roche	Clinical		NCT04317092 (National Cancer Institute, Naples)* NCT04320615 (Roche)* NCT04310228 (Peking University First Hospital) (also tocilizumab + favipiravir); ChiCTR2000030894* NCT04306705 (Tongji Hospital) (Cytokine Release Syndrome)* ChiCTR2000030442 (The Second Affiliated Hospital of Xi'an Jiaotong University) (combination of Tocilizumab, IVIG and CRRT)* ChiCTR2000029765 (The First Affiliated Hospital of University of Science and Technology of China [Anhui Provincial Hospital])*	Roche studies begin April 2020		Wall Street Journal FiercePharma Genentech
13	Gimsilumab, anti-granulocyte-macrophage colony stimulating factor monoclonal	N/A		Roivant Sciences	Clinical					Roivant
14	TJM2 (TJ003234), anti-granulocyte-macrophage colony stimulating factor antibody	N/A		I-Mab Biopharma	Clinical					i-Mab Biopharma
15	Sylvant (siltuximab), interleukin-6 targeted monoclonal	FDA-approved since 2014, approved to treat multicentric Castleman disease		EUSA Pharma/The Papa Giovanni XXII Hospital	Clinical			Initial data March 2020		EUSA Pharma

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16	Soliris (eculizumaab), complement inhibitor	FDA-approved since 2007, approved to treat Paroxysmal Nocturnal Hemoglobinuria, Atypical Hemolytic Uremic Syndrome, Generalized Myasthenia Gravis, and Neuromyelitis Optica Spectrum Disorder		Alexion	Expanded access					Alexion
17	Antibody	N/A		Erasmus MC/Utrecht University	Pre-clinical					Erasmus Magazine bioRxiv
18	Antibodies	Unknown		ImmunoPrecise Antibodies	Pre-clinical					Clinical Trials Arena
19	Antibody	N/A		Harbour BioMed/Mount Sinai Health System	Pre-clinical					Mount Sinai and Harbour BioMed press release
20	Antibodies	Unknown		AstraZeneca	Pre-clinical					PhRMA
21	Antibody	Unknown		Distributed Bio	Pre-clinical					Distributed Bio
22	Antibodies	Unknown		Chelsea and Westminster Hospital, Imperial College London	Pre-clinical	UK Government				UK Government
23	Human and horse plasma*	N/A*		Emergent BioSolutions*	Pre-clinical*	UK Government*		Phase 1 begins ~ August 2020*		TechCrunch* Emergent Biosolutions*
24	Convalescent plasma (blood plasma from recovered patients)	N/A		Multiple global research sponsors, including New York State Department of Health	Clinical		NCT04321421 (Foundation IRCCS San Matteo Hospital)* NCT04292340 (Shanghai Public Health Clinical Center)* NCT04316728 (Centro Studi Internazionali, Italy)*	New York State Department of Health trial begins March 2020		Politico

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ANTIVIRALS										
25	Favilavir/Favipiravir/T-705/ Avigan, licensed in Japan to treat influenza	N/A		Fujifilm Toyama Chemical/Zhejiang Hisun Pharmaceuticals/numerous trials with Chinese research sponsors	Clinical		<p>NCT04303299 (Rajavithi Hospital) (Various Combination of Protease Inhibitors, Oseltamivir, Favipiravir, and Hydroxychloroquine)*</p> <p>NCT04310228 (Peking University First Hospital) (also tocilizumab + favipiravir)*</p> <p>ChiCTR2000029548 (The First Affiliated Hospital, Zhejiang University School of Medicine) (Baloxavir Marboxil, Favipiravir, and Lopinavir-Ritonavir)*</p> <p>ChiCTR2000029496 (Hu'nan Haiyao hongxingtang Pharmaceutical Co., Ltd) (Novaferon, Kaletra, Novaferon+Kaletra)*</p> <p>ChiCTR2000029544 (The First Hospital Affiliated to Zhejiang University's Medical School) (Baloxavir Marboxil, Favipiravir)*</p>			<p>World Health Organization</p> <p>Clinical Trials Arena</p> <p>Pharmaceutical Technology</p> <p>BioCentury</p> <p>Guardian</p>

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26	Kaletra/Aluvia (lopinavir/ritonavir), HIV-1 protease inhibitor	FDA-approved since 2000, approved to treat HIV-1 infection		Global hospital testing (AbbVie); World Health Organization SOLIDARITY trial (studying lopinavir/ritonavir with and without interferon beta); University of Oxford	Clinical	UK Government (University of Oxford RECOVERY trial)	<p>NCT04303299 (Rajavithi Hospital) (Various Combination of Protease Inhibitors, Oseltamivir, Favipiravir, and Hydroxychloroquine)*</p> <p>NCT04255017 (Tongji Hospital) (Abidol Hydrochloride, Oseltamivir and Lopinavir/Ritonavir)*</p> <p>ChiCTR2000029548 (The First Affiliated Hospital, Zhejiang University School of Medicine) (Baloxavir Marboxil, Favipiravir, and Lopinavir-Ritonavir)*</p> <p>ChiCTR2000029539 (Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology)*</p> <p>EudraCT 2020-000936-23, INSERM study (lopinavir/ritonavir; Rebif; remdesivir)*</p> <p>NCT04307693 (Asan Medical Center) (Lopinavir/Ritonavir or Hydroxychloroquine)*</p> <p>NCT04315948 (Institut National de la Santé Et de la Recherche Médicale, France) (remdesivir, lopinavir/ritonavir, interferon beta-1a, hydroxychloroquine)*</p> <p>NCT04252885 (Guangzhou Eighth People's Hospital) (Lopinavir Plus Ritonavir; Arbidol)*</p>		<p>New England Journal of Medicine*</p> <p>medRxiv*</p>	<p>PhRMA</p> <p>Wall Street Journal</p> <p>Wall Street Journal</p> <p>Wall Street Journal</p> <p>Stat News</p> <p>UK Government*</p>

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27	remdesivir, nucleotide analog	N/A	Treatment of Ebola	Gilead; World Health Organization SOLIDARITY trial	Clinical		NCT04257656 (Capital Medical University), China study in patients with severe disease NCT04252664 (Capital Medical University), China study in patient with mild/moderate disease NCT04292730, Gilead study in patients with moderate disease NCT04292899, Gilead study in patients with severe disease NCT04280705, NIAID study EudraCT 2020-000936-23, INSERM study NCT04315948 (Institut National de la Santé Et de la Recherche Médicale, France) (remdesivir, lopinavir/ritonavir, interferon beta-1a, hydroxychloroquine)	Gilead Phase 3 trial results expected April 2020		PhRMA Wall Street Journal PhRMA post on LinkedIn Stat News Seeking Alpha* Gilead*

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28	Prezcobix (darunavir, HIV-1 protease inhibitor/cobicistat, CYP3A inhibitor)	FDA-approved since 2015, approved to treat HIV-1 infection		Chinese hospital testing (Janssen)	Clinical		ChiCTR2000029541 (Zhongnan Hospital of Wuhan University) (darunavir/cobicistat; lopinavir/ritonavir + thymosin a1)* NCT04252274 (Shanghai Public Health Clinical Center)* NCT04303299 (Rajavithi Hospital) (Various combination of protease inhibitors, Oseltamivir, Favipiravir, and Hydroxychloroquine)* NCT04304053 (Fundacio Lluita Contra la SIDA) (prevention, darunavir/cobicistat or hydroxychloroquine)*	Primary study ends August 2020		World Health Organization Wall Street Journal
29	galidesivir	N/A	Treatment of yellow fever	BioCryst Pharmaceuticals	Pre-clinical					Reuters BioCryst
30	Combination of ebastine, lopinavir, and interferon alpha	N/A		Mianyang Central Hospital	Clinical		ChiCTR2000030535 (Mianyang Central Hospital)*	Primary trial ends March 31, 2020		BioCentury
31	Ganovo (danoprevir), hepatitis C virus NS3 protease inhibitor; ritonavir; interferon, approved in China to treat Hepatitis C	N/A		Ascletris/Numerous trials with Chinese research sponsors	Clinical		NCT04291729 (The Ninth Hospital of Nanchang)*		medRxiv*	BioCentury ClinicalTrials.gov
32	ASC09, HIV protease inhibitor	N/A	Treatment of HIV/AIDS	Ascletris Pharma	Clinical		NCT04261907 (The First Affiliated Hospital of Zhejiang University) (ASC09/Ritonavir and Lopinavir/Ritonavir)*	Primary trial ends May 2020		Nature Biotechnology Ascletris Pharma

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33	Truvada (emtricitabine and tenofovir, both HIV-1 nucleoside analog reverse transcriptase inhibitors)	FDA-approved since 2004, approved to treat and prevent HIV-1 infection		Gilead/Sichuan Academy of Medical Sciences & Sichuan Provincial People's Hospital	Clinical		ChiCTR2000029468 (Sichuan Academy of Medical Sciences & Sichuan Provincial People's Hospital)*			World Health Organization
34	Arbidol (umifenovir), licensed in Russia and China for treatment of respiratory viral infections	N/A		Pharmstandard/numerous trials with Chinese research sponsors	Clinical		NCT04252885 (Guangzhou Eighth People's Hospital) (Lopinavir Plus Ritonavir; Arbidol)*		medRxiv*	World Health Organization BioCentury
35	Xofluza (baloxavir marboxil), polymerase acidic endonuclease inhibitor	FDA-approved since 2018, approved to treat influenza		Roche/The First Affiliated Hospital of Zhejiang University Medical School	Clinical		ChiCTR2000029544 (The First Hospital Affiliated to Zhejiang University's Medical School) (Baloxavir Marboxil, Favipiravir)*			World Health Organization
36	azvudine, reverse transcriptase inhibitor	N/A		Numerous trials with Chinese research sponsors	Clinical		ChiCTR2000030487 (He'nan Sincere Biotechnology Co., Ltd)* ChiCTR2000030424 (He'nan Sincere Biotechnology Co., Ltd)* ChiCTR2000029853 (People's Hospital of Guangshan County)*			World Health Organization
37	ISR-50	N/A		ISR Immune System Regulation	Pre-clinical					ISR Immune System Regulation
38	Antiviral compounds	N/A		Cocrystal Pharma	Pre-clinical					Cocrystal Pharma
CELL-BASED THERAPIES										
39	PLX cell product, placenta-based cell therapy	Unknown		Pluristem Therapeutics/BIH Center for Regenerative Therapy/Berlin Center for Advanced Therapies	Pre-clinical					Pharmaceutical Technology Pluristem Therapeutics

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40	Mesenchymal stem cells	Unknown		Numerous trials with global research sponsors	Clinical		ChiCTR2000029990 (Institute of Basic Medicine, Chinese Academy of Medical Sciences)* NCT04315987 (Azidus Brasil) (NestCell®)* NCT04302519 (CAR-T [Shanghai] Biotechnology Co., Ltd.) (Dental Pulp Mesenchymal Stem Cells)* NCT04288102 (Beijing 302 Hospital/VCANBIO CELL & GENE ENGINEERING CORP.,LTD, China)* NCT04313322 (Stem Cells Arabia) (Wharton's Jelly-Mesenchymal Stem Cells)* NCT04273646 (Wuhan Union Hospital, China/Wuhan Hamilton Bio-technology Co., Ltd, China) (Human Umbilical Cord Mesenchymal Stem Cells)*			BioCentury
41	Ryoncil (remestemcel-L), allogenic mesenchymal stem cells	N/A		Mesoblast	Pre-clinical					FierceBiotech
42	MultiStem, bone marrow stem cells		Acute Respiratory Distress Syndrome; Stroke	Athersys	Clinical					BioSpace

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43	Allogeneic T-cell therapies	N/A		AlloVir/Baylor College of Medicine	Pre-clinical					AlloVir FierceBiotech
RNA-BASED TREATMENTS										
44	RNAi - testing 150 RNAs	N/A		Sirnaomics	Pre-clinical					NPR
45	siRNA candidates	N/A		Vir Biotech/Alnylam Pharmaceuticals	Pre-clinical					Clinical Trials Arena
46	Ampligen; (rintatolimod)	N/A		AIM ImmunoTech/National Institute of Infectious Diseases in Japan	Pre-clinical					AIM Immunotech press release
47	OT-101, a TGF-Beta antisense drug candidate	N/A	Various cancers	Mateon Therapeutics	Pre-clinical					Clinical Trials Arena Mateon Therapeutics
SCANNING COMPOUNDS TO REPURPOSE										
48	Scanning library of antiviral compounds	N/A	N/A	Janssen Pharmaceutical Companies	Pre-clinical	Biomedical Advanced Research and Development Authority (BARDA)				Johnson & Johnson PhRMA
49	Scanning compounds to repurpose	N/A	N/A	Novartis	Pre-clinical					PhRMA
50	Scanning antiviral compounds previously in development	N/A	N/A	Pfizer	Pre-clinical			Screening completed March 2020, start Phase 1 by end of 2020		Pfizer PhRMA
51	Scanning compounds to repurpose	N/A	N/A	Merck	Pre-clinical					Wall Street Journal
52	Repurposing antiviral drug candidates	N/A	N/A	Materia Medica/Cyclica	Pre-clinical					Cyclica press release
53	Screening new drugs + library of antiviral compounds	N/A	N/A	Enanta Pharmaceuticals	Pre-clinical					FierceBiotech Enanta Pharmaceuticals
54	Screening drug compounds	N/A	N/A	Southwest Research Institute	Pre-clinical					Clinical Trials Arena

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55	Scanning compounds to repurpose	N/A	N/A	Takeda	Pre-clinical					PhRMA
56	Scanning compounds to repurpose	N/A	N/A	Queens University Belfast	Pre-clinical	UK Government				
OTHERS										
57	Methylprednisolone / corticosteroids	FDA-approved since at least the 1950s, approved to treat many diseases, including anti-inflammatory conditions and some cancers		Numerous trials with research sponsors in China; University of Oxford	Clinical	UK Government (University of Oxford RECOVERY trial)	NCT04244591 (Peking Union Medical College Hospital) (methylprednisolone)* NCT04263402 (Tongji Hospital) (Methylprednisolone)* NCT04273321 (Beijing Chao Yang Hospital) (Methylprednisolone)* ChiCTR2000029656 (Wuhan Pulmonary Hospital) (methylprednisolone)* ChiCTR2000029386 (Chongqing Public Health Medical Center) (Methylprednisolone)*	Primary study ends April 2020 (Peking) / June 2020 (Tongji)	NCT04261517 (Shanghai Public Health Clinical Center) (Hydroxychloroquine)* IHU-Méditerranée Infection*	World Health Organization UK Government*

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58	Chloroquine/ Hydroxychloroquine, antimalarial	FDA-approved since 1949, approved to treat malaria (chloroquine), FDA-approved since at least 1955, approved to treat malaria, rheumatoid arthritis, and lupus (hydroxychloroquine)		Numerous trials with global research sponsors; University of Minnesota; University of Oxford; IHU-Méditerranée Infection and others; World Health Organization SOLIDARITY trial (chloroquine); New York State Department of Health (hydroxychloroquine with zithromax)	Clinical		NCT04261517 (Shanghai Public Health Clinical Center) (Hydroxychloroquine)* NCT04303507 (University of Oxford) (chloroquine prevention study)* NCT04303299 (Rajavithi Hospital) (Various combination of protease inhibitors, Oseltamivir, Favipiravir, and Hydroxychloroquine)* NCT04304053 (Fundacio Lluita Contra la SIDA) (prevention, darunavir/cobicistat or hydroxychloroquine)* NCT04304053 (Fundacio Lluita Contra la SIDA) (prevention, darunavir/cobicistat or hydroxychloroquine)* NCT04307693 (Asan Medical Center) (Lopinavir/Ritonavir or Hydroxychloroquine)* NCT04316377 (University Hospital, Akershus) (Hydroxychloroquine)* NCT04315948 (Institut National de la Santé Et de la Recherche Médicale, France) (remdesivir, lopinavir/ritonavir, interferon beta-1a, hydroxychloroquine)* Over 22 trials registered in China*		NCT04261517 (Shanghai Public Health Clinical Center) (Hydroxychloroquine) IHU-Méditerranée Infection	World Health Organization BioCentury Endpoints News Stat News Politico*

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59	Camostat mesylate, transmembrane protease serine 2 (TMPRSS2) inhibitor, approved in Japan to treat multiple conditions including pancreatitis	N/A		Leibniz Institute for Primate Research/University Göttingen and others	Pre-clinical		NCT04321096 (University of Aarhus)*			Nature Biotechnology bioRxiv Thailand Medical News Cell
60	Jakafi/jakavi (ruxolitinib)	FDA-approved since 2011, approved to treat myelofibrosis, polycythemia vera, and acute graft-versus-host disease		Department of Hematology, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology/Incyte Corp	Clinical		ChiCTR2000029580 (Department of Hematology, Tongji Medical College, Huazhong University of Science and Technology) (ruxolitinib in combination with mesenchymal stem cells)*			World Health Organization
61	PegIntron, Sylatron, IntronA (peginterferon alfa-2b)	PegIntron - FDA-approved since 2001, approved to treat Hepatitis C; Sylatron - FDA-approved since 2001, approved for the adjuvant treatment of melanoma; Intron A - FDA-approved since 1986, approved to treat Hepatitis C and certain cancers		Wuhan Jinyintan Hospital (Wuhan Infectious Diseases Hospital) (Schering)	Clinical					World Health Organization

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62	Novaferon, Nova, interferon, licensed in China for Hepatitis B	N/A		The First Affiliated Hospital of Zhejiang University Medical School	Clinical		ChiCTR2000029573 (The First Affiliated Hospital of Medical College of Zhejiang University) (antiviral therapy, Chinese medicine treatment, and Novaferon atomization)* ChiCTR2000029496 (Hu'nan Haiyao hongxingtang Pharmaceutical Co., Ltd) (Novaferon, Kaletra, Novaferon+Kaletra)*			World Health Organization
63	Cerocal (ifenprodil), NP-120, an NDMA receptor glutamate receptor antagonist targeting Glu2NB	N/A	Idiopathic Pulmonary Fibrosis	Algernon Pharmaceuticals	Pre-clinical					Clinical Trials Arena Algernon Pharmaceuticals
64	APN01; recombinant soluble human Angiotensin Converting Enzyme 2	N/A	Acute lung injury, Acute respiratory distress syndrome, Pulmonary arterial hypertension	University of British Columbia/ Apeiron Biologics	Clinical			In Phase 1 pilot in China		Clinical Trials Arena Apeiron Biologics Apeiron Biologics*
65	Brilacidin, a defensin mimetic	N/A	Oral Mucositis; Ulcerative Proctitis/Ulcerative Proctosigmoiditis; Acute Bacterial Skin and Skin Structure Infection	Innovation Pharmaceuticals	Pre-clinical					Clinical Trials Arena Innovation Pharmaceuticals
66	BXT-25; glycoprotein	N/A		Bioxytran	Pre-clinical					Clinical Trials Arena

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67	Peptides targeting the NP protein	Unknown		CEL-SCI/University of Georgia Center for Vaccines and Immunology	Pre-clinical					Clinical Trials Arena CEL-SCI Corporation press release FierceBiotech* BioSpace*
68	BIO-11006, inhaled peptide	N/A	Acute Respiratory Distress Syndrome; Non-Small Cell Lung Cancer; Chronic Obstructive Pulmonary Disease (COPD)	Biomarck Pharmaceuticals	Clinical					Biomarck Pharmaceuticals
69	Gilenya (fingolimod), sphingosine 1-phosphate receptor modulator	FDA-approved since 2010, approved to treat multiple sclerosis		The First Affiliated Hospital of Fujian Medical University/Novartis	Clinical		NCT04280588 (First Affiliated Hospital of Fujian Medical University)*	Primary trial ends July 2020		
70	WP1122, glucose decoy prodrug (and related drug candidates)	N/A		Moleculin Biotech/University of Texas Medical Branch	Pre-clinical					FierceBiotech Moleculin
71	Rebif (interferon beta-1a)	FDA-approved since 2002, approved to treat multiple sclerosis		Institut National de la Sante et de la Recherche Medicale (Merck KGaA)	Clinical		EudraCT 2020-000936-23, INSERM study (lopinavir/ritonavir; Rebif; remdesivir)* NCT04315948 (Institut National de la Santé Et de la Recherche Médicale, France) (remdesivir, lopinavir/ritonavir, interferon beta-1a, hydroxychloroquine)*			Merck KGaA press release
72	nafamostat, approved in Japan to treat pancreatitis and other diseases	N/A		University of Tokyo/ National Center for Global Health and Medicine	Pre-clinical			Trial starts April 2020		Bloomberg News
73	A number of synthesized nanoviricide drug candidates	N/A		NanoViricides	Pre-clinical					Clinical Trials Arena NanoViricides Inc.

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74	losartan	FDA-approved since 1995, approved to treat hypertension and diabetic nephropathy		University of Minnesota	Clinical		NCT04312009 (University of Minnesota) (Losartan for Patients With COVID-19 Requiring Hospitalization)* NCT04311177 (University of Minnesota) (Losartan for Patients With COVID-19 Not Requiring Hospitalization)*			KARE TV
75	Activase (alteplase), tissue plasminogen activator (tPA)	FDA-approved since 1987, approved to treat stroke, myocardial infarction, and pulmonary embolism		Beth Israel Deaconess, the University of Colorado Anschutz Medical Campus, and Denver Health (Genentech)	Compassionate Use					MIT News
DORMANT/DISCONTINUED										
1	Washed microbiota transplantation	Unknown		The Second Hospital of Nanjing Medical University	Clinical		NCT04251767 (The Second Hospital of Nanjing Medical University) (Washed Microbiota Transplantation for Patients With 2019-nCoV Infection)*		Study stopped before recruitment*	BioCentury
2*	Recombinant ACE2 (angiotensin-converting enzyme 2)*	Unknown*		The First Affiliated Hospital of Guangzhou Medical University*	Clinical*		NCT04287686 (The First Affiliated Hospital of Guangzhou Medical University) (Recombinant Human Angiotensin-converting Enzyme 2 [rhACE2] as a Treatment for Patients With COVID-19)*		Study stopped before recruitment*	BioCentury

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VACCINES

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1	DNA plasmid; INO-4800	Same platform as vaccine candidates for Lassa, Nipah, HIV, Filovirus, HPV, cancer indications, Zika, and Hepatitis B	Inovio Pharmaceuticals/Beijing Advaccine Biotechnology	Pre-clinical	Coalition for Epidemic Preparedness (CEPI)		Start Phase 1 in April 2020		World Health Organization MarketWatch
2	DNA		Takis/Applied DNA Sciences/Evvivax	Pre-clinical					World Health Organization
3	DNA plasmid		Zydus Cadila	Pre-clinical					World Health Organization
4	Inactivated (formaldehyde-inactivated + alum)	Same platform as vaccine candidates for SARS	Sinovac	Pre-clinical					World Health Organization
5	Deoptimized live attenuated virus	Same platform as vaccine candidates for HAV, InfA, ZIKV, FMD, SIV, RSV, DENV	Codagenix/Serum Institute of India	Pre-clinical			Animal data in summer 2020		World Health Organization Indian Express
6	Live attenuated	Same platform as vaccine candidates for MERS	The University of Hong Kong	Pre-clinical	Coalition for Epidemic Preparedness (CEPI)				World Health Organization Coalition for Epidemic Preparedness
7	Non-replicating viral vector; MVA encoded VLP	Same platform as vaccine candidates for LASV, EBOV, MARV, HIV	GeoVax/BravoVax	Pre-clinical					World Health Organization
8	Non-replicating viral vector; Ad26 (alone or with MVA boost)	Same platform as vaccine candidates for Ebola, HIV, RSV	Janssen Pharmaceutical Companies/ Beth Israel Deaconess Medical Center	Pre-clinical	Biomedical Advanced Research and Development Authority (BARDA)		Start Phase 1 in November 2020		World Health Organization Johnson & Johnson Johnson & Johnson FierceBiotech*

LEGEND

CCHF = Crimean-Congo Haemorrhagic Fever	HIV = Human Immunodeficiency Virus	NIPV = Nipah Virus	TB = Tuberculosis
CHIKV = Chikungunya Virus	HPV = Human Papilloma Virus	NORV = Norovirus	VEE = Venezuelan Equine Encephalitis Virus
DengV = Dengue Virus	Inf = Influenza	RABV = Rabies Virus	VZV = Varicella Vaccine (Chickenpox)
FMD = Foot and Mouth Disease	LASV = Lassa Fever Virus	RSV = Respiratory Syncytial Virus	YFV = Yellow Fever Virus
EBOV = Ebola Virus	MARV = Marburg Virus	RVF = Rift Valley Fever	ZIKV = Zika Virus
HAV = Hepatitis A Virus	MenB = Meningitis B	SARS = Severe Acute Respiratory Syndrome	
HBV = Hepatitis B Virus	MERS = Middle East Respiratory Syndrome	SIV = Simian Immunodeficiency Virus	

Number	Type of Vaccine	Related Use/Platform	Developer/Researcher	Current Stage of Development	Funding Sources	Clinical Trials for COVID-19	Anticipated Next Steps Timing	Published Results	Sources
9	Non-replicating viral vector; ChAdOx1	Same platform as vaccine candidates for influenza, TB, Chikungunya, Zika, MenB, plague	University of Oxford	Pre-clinical	Coalition for Epidemic Preparedness (CEPI)/UK Government		Animal trials begin March 2020, Phase 1 begins April 2020		World Health Organization Guardian Fierce Biotech*
10	Non-replicating viral vector; adenovirus-based NasoVAX expressing spike protein	Same platform as vaccine candidates for influenza	Altimune	Pre-clinical					World Health Organization
11	Non-replicating viral vector; Ad5 S (GREVAX™ platform)	Same platform as vaccine candidates for MERS	Greffex	Pre-clinical					World Health Organization
12	Non-replicating viral vector; Oral Vaccine platform	Same platform as vaccine candidates for InfA, CHIKV, LASV, NORV, EBOV, RVF, HBV, VEE	Vaxart/Emergent BioSolutions*	Pre-clinical					World Health Organization Vaxart press release Emergent BioSolutions
13	Non-replicating viral vector; Adenovirus Type 5 vector (Ad5-nCoV)	Same platform as vaccine candidates for EBOV	CanSino Biologics/Beijing Institute of Biotechnology	Clinical		NCT04313127 (CanSino Biologics Inc.)*	Phase 1 ends December 2020		World Health Organization FiercePharma
14	Protein subunit; Drosophila S2 insect cell expression system VLPs		ExpreS2ion	Pre-clinical					World Health Organization
15	Protein subunit; S protein		WRAIR/USAMRIID	Pre-clinical					World Health Organization
16	Protein subunit; S trimer	Same platform as vaccine candidates for HIV, RSV, Influenza	Clover Biopharmaceuticals Inc./GSK	Pre-clinical					World Health Organization
17	Protein subunit; peptide		Vaxil Bio	Pre-clinical					World Health Organization
18	Protein subunit; S protein		AJ Vaccines	Pre-clinical					World Health Organization
19	Protein subunit; li-Key peptide	Same platform as vaccine candidates for HIV, SARS-CoV, Influenza	Generex/EpiVax	Pre-clinical					World Health Organization
20	Protein subunit; S protein	Same platform as vaccine candidates for Inf H7N9	EpiVax/University of Georgia	Pre-clinical					World Health Organization
21	Protein subunit; S protein, baculovirus production	Same platform as vaccine candidates for Influenza, SARS-CoV (FDA-approved vaccine)	Sanofi Pasteur	Pre-clinical	Biomedical Advanced Research and Development Authority (BARDA)		Start Phase 1 March 2021		World Health Organization Sanofi Stat News MarketWatch

Number	Type of Vaccine	Related Use/Platform	Developer/Researcher	Current Stage of Development	Funding Sources	Clinical Trials for COVID-19	Anticipated Next Steps Timing	Published Results	Sources
22	Protein subunit; Full length S trimers/nanoparticle + Matrix M	Same platform as vaccine candidates for RSV, CCHF, HPV, VZV, EBOV	Novavax/Emergent BioSolutions*	Pre-clinical	Coalition for Epidemic Preparedness (CEPI)				World Health Organization Emergent BioSolutions*
23	Protein subunit (gp-96 backbone)	Same platform as vaccine candidates for cancer (NSCLC), HIV, malaria, Zika	Heat Biologics/University of Miami	Pre-clinical					World Health Organization Clinical Trials Arena
24	Protein subunit; S protein clamp	Same platform as vaccine candidates for Nipah, influenza, Ebola, Lassa	University of Queensland/GSK/Dynavax	Pre-clinical	Coalition for Epidemic Preparedness (CEPI)/Queensland Government/Federal Government (Australia)/Paul Ramsay Foundation				World Health Organization ABC News Australia Dynavax
25	Protein subunit; S1 or RBD protein	Same platform as vaccine candidates for SARS	Baylor College of Medicine	Pre-clinical					World Health Organization
26	Protein subunit; Subunit protein, plant produced		iBio/CC-Pharming	Pre-clinical					World Health Organization
27	Protein subunit		VIDO-InterVac, University of Saskatchewan	Pre-clinical					World Health Organization
28	Protein subunit, adjuvanted microsphere peptide		University of Saskatchewan	Pre-clinical					World Health Organization
29	Replicating viral vector; measles vector		Zydus Cadila	Pre-clinical					World Health Organization
30	Replicating viral vector; measles vector	Same platform as vaccine candidates for West Nile, CHIKV, Ebola, Lassa, Zika, MERS	Institut Pasteur/Themis/University of Pittsburgh	Pre-clinical	Coalition for Epidemic Preparedness (CEPI)		Start animal testing in April 2020		World Health Organization University of Pittsburgh Medical Center Coalition for Epidemic Preparedness
31	Replicating viral vector; horsepox vector; TNX-1800	Same platform as vaccine candidates for smallpox, monkeypox	Tonix Pharma/Southern Research	Pre-clinical					World Health Organization Tonix Pharmaceuticals press release
32	RNA; LNP-encapsulated mRNA cocktail encoding VLP		Fudan University/Shanghai JiaoTong University/RNACure Biopharma	Pre-clinical					World Health Organization

Number	Type of Vaccine	Related Use/Platform	Developer/Researcher	Current Stage of Development	Funding Sources	Clinical Trials for COVID-19	Anticipated Next Steps Timing	Published Results	Sources
33	RNA; LNP-encapsulated mRNA cocktail encoding RBD		Fudan University/Shanghai JiaoTong University/RNACure Biopharma	Pre-clinical					World Health Organization
34	RNA; mRNA		China CDC/Tongji University/Stermina	Pre-clinical					World Health Organization
35	RNA; LNP-encapsulated mRNA (mRNA 1273)	Same platform as vaccine candidates for multiple candidates	Moderna/NIAID	Clinical	Coalition for Epidemic Preparedness (CEPI)	NCT04283461 (National Institute of Allergy and Infectious Diseases)*	Phase 1 started March 2020, study ends June 2021		World Health Organization Wall Street Journal MarketWatch ClinicalTrials.gov
36	RNA; mRNA	Same platform as vaccine candidates for multiple candidates	Arcturus/Duke-NUS	Pre-clinical					World Health Organization Arcturus Therapeutics
37	RNA; saRNA	Same platform as vaccine candidates for EBOV, LASV, MARV, Inf (H7N9), RABV	Imperial College London	Pre-clinical					World Health Organization
38	RNA; mRNA	Same platform as vaccine candidates for RABV, LASV, YFV, MERS, InfA, ZIKV, DengV, NIPV	CureVac	Pre-clinical	Coalition for Epidemic Preparedness (CEPI); European Commission		Start Phase 1 in June 2020		World Health Organization Labiotech.eu
39	RNA; BNT162		BioNTech/Fosun Pharma/Pfizer	Pre-clinical			Start Phase 1 late April 2020		FierceBiotech Endpoints News World Health Organization
40	RNA; mRNA	Same platform as vaccine candidates for cancer	BIOCAD	Pre-clinical			Animal studies begin in April 2020		BIOCAD
41	VLP; plant-derived VLP	Same platform as vaccine candidates for flu, rotavirus, norovirus, West Nile virus, and cancer	Medicago Inc.	Pre-clinical					World Health Organization
42	Gene-encoded antibody vaccine, non-viral nanoparticle delivery		SmartPharm Therapeutics/Sorrento Therapeutics	Pre-clinical					SmartPharm Therapeutics
43	ISR-50		ISR Immune System Regulation	Pre-clinical			Animal study results expected in Q2 2020, Phase 1 begins Q4 2020		ISR Immune System Regulation

Number	Type of Vaccine	Related Use/Platform	Developer/Researcher	Current Stage of Development	Funding Sources	Clinical Trials for COVID-19	Anticipated Next Steps Timing	Published Results	Sources
44	Unknown		ImmunoPrecise	Pre-clinical					World Health Organization
45	Unknown		MIGAL Galilee Research Institute	Pre-clinical					World Health Organization
46	Unknown		Doherty Institute	Pre-clinical					World Health Organization
47	Unknown		Tulane University	Pre-clinical					World Health Organization Clinical Trials Arena