

Drugs used in clinical trials for Covid-19 according to NIH

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# Drugs used in clinical trials for Covid-19 according to NIH

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Here we show the site ClinicalTrials.gov of NIH and its use to find the drugs involved in clinical trials for Covid-19. For what concerns the countries where the trials have been proposed, we considered Italy and France in details. Maps concerning some drugs are also given. In fact, a georeferentiation of the use of drugs is possible, in order to evidence any possible link between drugs and the local evolution of pandemic Covid-19.

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To search for diseases and related experimentations, it is possible to visit the site ClinicalTrials.gov of the National Institutes of Health (NIH). It is "a searchable registry and results database of federally and privately supported clinical trials conducted in the United States and around the world". Therefore, ClinicalTrials.gov gives information about "a trial's purpose, who may participate, locations, and phone numbers for more details. This information should be used in conjunction with advice from health care professionals". The link is the following:

<https://www.nih.gov/health-information/nih-clinical-research-trials-you/finding-clinical-trial> .

For instance, let us consider a search for "Covid" and "Italy", on May 20, 2020, we can obtain the results which are available according to the following link: <https://clinicaltrials.gov/ct2/results?cond=COVID&term=&cntry=IT&state=&city=&dist=>

The base information, given in the resulting web-page, concerns Status, Study Title, Conditions, Interventions and Locations. "URL" is giving a link to a web-page of NIH containing detailed information about the trial. Here, in the following snapshot, an example of a trial using Enoxaparin.

Row	Saved	Status	Study Title	Conditions	Interventions	Locations
2	<input type="checkbox"/>	Recruiting <b>NEW</b>	<a href="#">Comparison of Two Doses of Enoxaparin for Thromboprophylaxis in Hospitalized COVID-19 Patients</a>	• Covid19	• Drug: Enoxaparin	• Azienda Socio Sanitaria Territoriale Grande Ospedale Metropolitano Niguarda Milano, Italy

After a general search, we can extract information. For example, we can examine among the clinical trials, those where specific drugs are reported, for being investigated and used for Covid-19. However, several other analyses of topics, about the medical instrumentation for instance, are possible. There is also the possibility to have a geo-referentiation of drugs; that is, to find a link between the drug used in a given area where the trial is conducted and the local evolution of the COVID pandemic.

Here we consider only a specific example of the use of ClinicalTrials.gov. As told before, we consider the drugs. We give only the trials where a drug is explicitly mentioned in the title or in the intervention. It is possible that a more detailed analysis of all the records can reveal several other drugs involved, or that any mistake has been made, in preparing the following lists. Then, in the case of a specific interest, a detailed analysis of all reports is suggested. Hyper-immune plasma is

considered in the lists too. We have investigated Italy and France. Of course, it would be better to have an account obtained by means of an analysis on a larger geographical area. However, even from this small comparison, we can find that differences exist.

For what concerns investigations on continental or global scale, ClinicalTrials.gov is displaying maps, according to the search which has been made. Here we will show some examples of maps too. Therefore, in the following, we propose two lists concerning trials in Italy and France, with marked the drugs involved. Then, a few maps concerning some drugs are given.

### Drugs used in Italy

Comparison of Two Doses of **Enoxaparin**<sup>1</sup> for Thromboprophylaxis in Hospitalized COVID-19 Patients; Drug: Enoxaparin

URL: <https://ClinicalTrials.gov/show/NCT04366960>

Clinical Study To Evaluate The Performance And Safety Of **Favipiravir**<sup>2</sup> in COVID-19 ; Drug: Favipiravir|Other: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04336904>

Baricitinib Therapy in COVID-19; Drug: **Baricitinib**<sup>3</sup> 4 MG Oral Tablet

URL: <https://ClinicalTrials.gov/show/NCT04358614>

Use of Ascorbic Acid in Patients With COVID 19; Dietary Supplement: **Vitamin C**<sup>4</sup>

URL: <https://ClinicalTrials.gov/show/NCT04323514>

**ACE Inhibitors, Angiotensin II Type-I Receptor Blockers**<sup>5</sup> and Severity of COVID-19

URL: <https://ClinicalTrials.gov/show/NCT04318418>

Hyperimmune Plasma for Critical Patients With COVID-19; Other: **hyperimmune plasma**

URL: <https://ClinicalTrials.gov/show/NCT04321421>

Bacteriotherapy in the Treatment of COVID-19; Dietary Supplement: SivoMixx (200 billion); Drug: **Azithromycin** | Drug: **hydroxychloroquine**<sup>6</sup>

URL: <https://ClinicalTrials.gov/show/NCT04368351>

Efficacy and Safety of **Tocilizumab**<sup>7</sup> in the Treatment of SARS-Cov-2 Related Pneumonia

URL: <https://ClinicalTrials.gov/show/NCT04332913>

Colchicine in COVID-19: a Pilot Study; Drug: **Colchicine**<sup>8</sup> 1 MG Oral Tablet

URL: <https://ClinicalTrials.gov/show/NCT04375202>

DAS181 for STOP COVID-19; Drug: **DAS181**<sup>9</sup> | Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04354389>

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1 [https://en.wikipedia.org/wiki/Enoxaparin\\_sodium](https://en.wikipedia.org/wiki/Enoxaparin_sodium)

2 <https://en.wikipedia.org/wiki/Favipiravir>

3 <https://en.wikipedia.org/wiki/Baricitinib>

4 <https://ods.od.nih.gov/factsheets/VitaminC-HealthProfessional/>

5 <https://www.mayoclinic.org/diseases-conditions/high-blood-pressure/in-depth/ace-inhibitors/art-20047480>

6 Sparavigna, Amelia Carolina. (2020, May 17). On the association of Hydroxychloroquine and Azithromycin in treating Covid-19 in Italy. Zenodo. <http://doi.org/10.5281/zenodo.3831174>

7 <https://en.wikipedia.org/wiki/Tocilizumab>

8 <https://en.wikipedia.org/wiki/Colchicine>

9 <https://biopharmadealmakers.nature.com/users/114908-ansun-biopharma/posts/37800-developing-das181-for-influenza-and-other-infections> ; <https://www.clinicaltrialsarena.com/projects/fludase/> ; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4736611/> ; <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0007838>

An Observational Case-control Study of the Use of **Siltuximab**<sup>10</sup> in ARDS Patients Diagnosed With COVID-19 Infection

URL: <https://ClinicalTrials.gov/show/NCT04322188>

**Baricitinib** Compared to Standard Therapy in Patients With COVID-19; Drug: Baricitinib Oral Tablet

URL: <https://ClinicalTrials.gov/show/NCT04393051>

**Renin-Angiotensin System Inhibitors**<sup>11</sup> and COVID-19

URL: <https://ClinicalTrials.gov/show/NCT04331574>

Compassionate Use Open-Label Anti-CD14 Treatment in Patients With SARS-CoV-2 (COVID-19); Biological: IC14, a **monoclonal antibody against CD14**<sup>12</sup>

URL: <https://ClinicalTrials.gov/show/NCT04346277>

Transfusion of **Convalescent Plasma** for the Early Treatment of pneumonia Due to SARSCoV2; Biological: CONVALESCENT PLASMA

URL: <https://ClinicalTrials.gov/show/NCT04393727>

Oxygen-Ozone as Adjuvant Treatment in Early Control of COVID-19 Progression and Modulation of the Gut Microbial Flora; Other: **Oxygen-ozone** therapy, probiotic supplementation and Standard of care | Dietary Supplement: SivoMixx (200 billion) | Drug: **Azithromycin** | Drug: **hydroxychloroquine**

URL: <https://ClinicalTrials.gov/show/NCT04366089>

The Effect of Sitagliptin Treatment in COVID-19 Positive Diabetic Patients; Drug: **Sitagliptin**<sup>13</sup>

URL: <https://ClinicalTrials.gov/show/NCT04365517>

Protect: Study With Hydroxychloroquine for Prevention and Early Phase Treatment of Coronavirus Disease (COVID-19); Drug: **Hydroxychloroquine**

URL: <https://ClinicalTrials.gov/show/NCT04363827>

TOFacitinib in SARS-CoV2 Pneumonia; Drug: **Tofacitinib**<sup>14</sup>

URL: <https://ClinicalTrials.gov/show/NCT04332042>

Early transfusion of **Convalescent Plasma** in Elderly COVID-19 Patients. to Prevent Disease Progression; Biological: COVID-19 Convalescent Plasma

URL: <https://ClinicalTrials.gov/show/NCT04374526>

Colchicine Counteracting Inflammation in COVID-19 Pneumonia; Drug: **Colchicine**

URL: <https://ClinicalTrials.gov/show/NCT04322565>

Phase II RCT to Assess Efficacy of Intravenous Administration of **Oxytocin**<sup>15</sup> in Patients Affected by COVID-19; Drug: Oxytocin|Drug: Standard of Care

URL: <https://ClinicalTrials.gov/show/NCT04386447>

**Baricitinib** in Symptomatic Patients Infected by COVID-19: an Open-label, Pilot Study; Drug: Baricitinib

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10 <https://en.wikipedia.org/wiki/Siltuximab>

11 <https://www.nejm.org/doi/full/10.1056/NEJMSr2005760> ;

[https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)31030-8/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31030-8/fulltext)

12 <https://pubmed.ncbi.nlm.nih.gov/11717588/> ; <https://pubmed.ncbi.nlm.nih.gov/11207321/>

13 <https://en.wikipedia.org/wiki/Sitagliptin>

14 <https://en.wikipedia.org/wiki/Tofacitinib>

15 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7177061/>

URL: <https://ClinicalTrials.gov/show/NCT04320277>

Efficacy of **Methylprednisolone**<sup>16</sup> for Patients With COVID-19 Severe Acute Respiratory Syndrome; Drug: Methylprednisolone|Other: standard care

URL: <https://ClinicalTrials.gov/show/NCT04323592>

Enhanced Platelet Inhibition in Critically Ill Patients With COVID-19; Drug: **Tirofiban**<sup>17</sup> Injection| Drug: **Clopidogrel**<sup>18</sup> | Drug: **Acetylsalicylic acid**<sup>19</sup> | Drug: **Fondaparinux**<sup>20</sup>

URL: <https://ClinicalTrials.gov/show/NCT04368377>

Escin in Patients With Covid-19 Infection; Drug: **Escin**<sup>21</sup> | Drug: standard therapy

URL: <https://ClinicalTrials.gov/show/NCT04322344>

Tocilizumab for SARS-CoV2 (COVID-19) Severe Pneumonitis; Drug: **Tocilizumab**

URL: <https://ClinicalTrials.gov/show/NCT04315480>

Efficacy and Safety of **Emapalumab and Anakinra**<sup>22</sup> in Reducing Hyperinflammation and Respiratory Distress in Patients With COVID-19 Infection; Biological: Emapalumab|Biological: Anakinra

URL: <https://ClinicalTrials.gov/show/NCT04324021>

Bevacizumab in Severe or Critical Patients With COVID-19 Pneumonia; Drug: **Bevacizumab**<sup>23</sup> Injection

URL: <https://ClinicalTrials.gov/show/NCT04275414>

**Sitagliptin** Treatment in Diabetic COVID-19 Positive Patients; Drug: Retrospective case-control analysis

URL: <https://ClinicalTrials.gov/show/NCT04382794>

**Hyperimmune Plasma** in Patients With COVID-19 Severe Infection; Other: plasma hyperimmune|Drug: standard therapy

URL: <https://ClinicalTrials.gov/show/NCT04385043>

**Convalescent Antibodies Infusion** in Critically Ill COVID 19 Patients; Biological: Anti-coronavirus antibodies (immunoglobulins)obtained with DFPP from convalescent patients

URL: <https://ClinicalTrials.gov/show/NCT04346589>

**Tocilizumab** in COVID-19 Pneumonia (TOCIDVID-19); Drug: Tocilizumab Injection

URL: <https://ClinicalTrials.gov/show/NCT04317092>

**Acalabrutinib**<sup>24</sup> Study With Best Supportive Care Versus Best Supportive Care in Subjects Hospitalized With COVID-19; Drug: Acalabrutinib

URL: <https://ClinicalTrials.gov/show/NCT04346199>

Efficacy of Early Administration of **Tocilizumab** in COVID-19 Patients; Drug: Tocilizumab

URL: <https://ClinicalTrials.gov/show/NCT04346355>

16 <https://www.healthline.com/health/methylprednisolone-oral-tablet>

17 <https://en.wikipedia.org/wiki/Tirofiban>

18 <https://en.wikipedia.org/wiki/Clopidogrel>

19 <https://en.wikipedia.org/wiki/Aspirin>

20 <https://www.uptodate.com/contents/fondaparinux-dosing-and-adverse-effects>

21 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6776292/> ;

<https://www.sciencedirect.com/topics/neuroscience/escin>

22 <https://salute.regione.emilia-romagna.it/farmaci/covid-19/farmaci-e-studi-clinici/anakinra-emapalumab>

23 <https://en.wikipedia.org/wiki/Bevacizumab>

24 <https://en.wikipedia.org/wiki/Acalabrutinib>

Study to Evaluate the Safety and Antiviral Activity of **Remdesivir**<sup>25</sup> (GS-.5734<sup>TM</sup>) in Participants With Severe Coronavirus Disease (COVID-19); Drug: Remdesivir|Drug: Standard of Care

URL: <https://ClinicalTrials.gov/show/NCT04292899>

Study to Evaluate the Safety and Antiviral Activity of **Remdesivir** (GS-5734<sup>TM</sup>) in Participants With Moderate Coronavirus Disease (COVID-19) Compared to Standard of Care Treatment; Drug: Remdesivir|Drug: Standard of Care

URL: <https://ClinicalTrials.gov/show/NCT04292730>

A Study to Evaluate the Safety and Efficacy of **Tocilizumab** in Patients With Severe COVID-19 Pneumonia; Drug: Tocilizumab (TCZ)|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04320615>

Expanded Access Treatment Protocol: **Remdesivir** (RDV; GS-5734) for the Treatment of SARS-CoV2 (CoV) Infection (COVID-19); Drug: Remdesivir

URL: <https://ClinicalTrials.gov/show/NCT04323761>

Sarilumab COVID-19; Drug: **Sarilumab**<sup>26</sup> SAR153191|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04327388>

### Drugs used in France

Low Dose of IL-2 In Acute Respiratory DistrEss Syndrome Related to COVID-19; Drug: 1: **ILT101**<sup>27</sup> | Drug: 2: Placebo Comparator

URL: <https://ClinicalTrials.gov/show/NCT04357444>

Hydroxychloroquine **Azithromycin** COVID-19 Pregnancy Trial; Drug: **Hydroxychloroquine** and azithromycin treatment | Other: conventional management of patients

URL: <https://ClinicalTrials.gov/show/NCT04365231>

**Avdoralimab**<sup>28</sup> an Anti-C5aR Antibody, in Patients With COVID-19 Severe Pneumonia (FORCE ); Biological: avdoralimab|Other: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04371367>

Epidemiology of SARS-CoV-2 and Mortality to Covid19 Disease in French Cancer Patients; Drug: **Hydroxychloroquine** | Drug: **Azithromycin**

URL: <https://ClinicalTrials.gov/show/NCT04341207>

Efficacy of **Convalescent Plasma** to Treat COVID-19 Patients, a Nested Trial in the CORIMUNO-19 Cohort; Drug: Transfusion of COVID-19 convalescent plasma

URL: <https://ClinicalTrials.gov/show/NCT04345991>

Repurposing of **Chlorpromazine**<sup>29</sup> in Covid-19 Treatment; Drug: CHLORPROMAZINE (CPZ)| Combination Product: Standard of Care (SOC)

URL: <https://ClinicalTrials.gov/show/NCT04366739>

Multicenter, Retrospective Study of the Effects of **Remdesivir** in the Treatment of Severe Covid-19 Infections; Drug: Remdesivir

25 [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)31022-9/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31022-9/fulltext)

26 <https://en.wikipedia.org/wiki/Sarilumab>

27 <https://lupusnewstoday.com/2017/06/01/servier-iltoo-pharma-agree-to-develop-commercialize-ilt-101-as-lupus-treatment/>

28 <https://fr.wikipedia.org/wiki/Avdoralimab>

29 <https://www.drugs.com/mtm/chlorpromazine.html>

URL: <https://ClinicalTrials.gov/show/NCT04365725>

**ABX464**<sup>30</sup> in Treating Inflammation and Preventing Acute Respiratory Failure in Patients With COVID-19; Drug: ABX464|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04393038>

Trial Evaluating Efficacy and Safety of **Nivolumab**<sup>31</sup> (Optivo®) in Patients With COVID-19 Infection, Nested in the Corimmuno-19 Cohort; Drug: Nivolumab Injection

URL: <https://ClinicalTrials.gov/show/NCT04343144>

Randomised, Double-blind, Placebo-controlled Phase 2 Study Evaluating the Efficacy of **Hydroxychloroquine** and **Azithromycin** in Patients With COVID-19 and Hematological Malignancies; Drug: Hydroxychloroquine Sulfate 200 MG [Plaquenil] | Drug: Azithromycin 250 MG Oral Capsule|Drug: Placebo oral tablet|Drug: Placebo oral capsule

URL: <https://ClinicalTrials.gov/show/NCT04392128>

Efficacy of **Hydroxychloroquine**, **Telmisartan**<sup>32</sup> and **Azithromycin** on the Survival of Hospitalized Elderly Patients With COVID-19; Drug: Hydroxychloroquine|Drug: Azithromycin|Drug: Telmisartan

URL: <https://ClinicalTrials.gov/show/NCT04359953>

**Povidone Iodine**<sup>33</sup> Mouthwash, Gargle, and Nasal Spray to Reduce Naso- Pharyngeal Viral Load in Patients With COVID-19; Drug: Povidone-Iodine

URL: <https://ClinicalTrials.gov/show/NCT04371965>

**Drug Management of Rheumatoid Arthritis** in Covid-19 Context : Impact on Therapeutic De-escalation [patients are assuming drugs for sure, therefore this study is very important]

URL: <https://ClinicalTrials.gov/show/NCT04393233>

Efficacy and Safety of Aerosolized Intra-tracheal Dornase Alpha Administration in Patients With COVID19-induced ARDS (COVIDORNASE); Drug: **Dornase Alfa**<sup>34</sup> Inhalation Solution [Pulmozyme]|Procedure: standard procedure

URL: <https://ClinicalTrials.gov/show/NCT04355364>

Proactive Care of Ambulatory COVID19 Patients; Other: consultation|Drug: **Azithromycin**

URL: <https://ClinicalTrials.gov/show/NCT04371107>

Dexamethasone and Oxygen Support Strategies in ICU Patients With Covid-19 Pneumonia; Drug: **Dexamethasone**<sup>35</sup> injection|Drug: placebo|Procedure: conventional oxygen|Procedure: CPAP|Procedure: HFNO|Procedure: mechanical ventilation

URL: <https://ClinicalTrials.gov/show/NCT04344730>

**Almitrine**<sup>36</sup> and COVID-19 Related Hypoxemia

URL: <https://ClinicalTrials.gov/show/NCT04380727>

Efficacy of Intravenous **Almitrine** in Reducing the Need for Mechanical Ventilation in Patients With Hypoxemic Acute Respiratory Failure Due to Covid-19-related Pneumonia; Drug: Almitrine|Drug: Placebo

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30 <https://www.nature.com/articles/s41598-018-37813-y>

31 <https://en.wikipedia.org/wiki/Nivolumab>

32 <http://www.informazioneisulfarmaci.it/telmisartan>

33 <https://en.wikipedia.org/wiki/Povidone-iodine>

34 [https://www.cochrane.org/CD001127/CF\\_dornase-alfa-inhaled-drug-treating-lung-disease-cystic-fibrosis](https://www.cochrane.org/CD001127/CF_dornase-alfa-inhaled-drug-treating-lung-disease-cystic-fibrosis)

35 <https://en.wikipedia.org/wiki/Dexamethasone>

36 <https://en.wikipedia.org/wiki/Almitrine>

URL: <https://ClinicalTrials.gov/show/NCT04357457>

Long-term Use of Drugs That Could Prevent the Risk of Serious COVID-19 Infections or Make it Worse; Other: - **Synthetic anti-malarial drugs**

URL: <https://ClinicalTrials.gov/show/NCT04356417>

Protective Role of **Inhaled Steroids** for Covid-19 Infection; Drug: 2: Usual practice + **SYMBICORT RAPIHALER**<sup>37</sup> | Other: 1: Usual practice

URL: <https://ClinicalTrials.gov/show/NCT04331054>

Covid-19 in **Lupus Patients** Interventions: [in the Search Result, no intervention is detailed; however, it is sure that Lupus patients are assuming drugs, therefore this study is very important]

URL: <https://ClinicalTrials.gov/show/NCT04355702>

Dexamethasone Treatment for Severe Acute Respiratory Distress Syndrome Induced by COVID-19; Drug: **Dexamethasone**<sup>38</sup> and **Hydroxychloroquine** | Drug: Hydroxychloroquine

URL: <https://ClinicalTrials.gov/show/NCT04347980>

Use of a Respiratory Multiplex PCR and **Procalcitonin**<sup>39</sup> to Reduce Antibiotics Exposure in Patients With Severe Confirmed COVID-19 Pneumonia; Procedure: Combined use of a respiratory broad panel multiplex PCR and procalcitonin|Other: Usual antibiotic treatment

URL: <https://ClinicalTrials.gov/show/NCT04334850>

**Polyvalent Immunoglobulin** in COVID-19 Related ARds; Drug: **Human immunoglobulin**<sup>40</sup> | Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04350580>

A Study of Trans Crocetin in Patients With Acute Respiratory Distress Syndrome Due to COVID-19 Disease (LEAF-4L7520/4L6715); Drug: **LEAF-4L6715**<sup>41</sup> | Drug: **LEAF-4L7520**

URL: <https://ClinicalTrials.gov/show/NCT04378920>

Treatments to Decrease the Risk of Hospitalization or Death in Elderly Outpatients With Symptomatic SARS-CoV-2 Infection (COVID-19); Dietary Supplement: Vitamins | Drug: **Hydroxychloroquine** | Drug: **Imatinib**<sup>42</sup> | Drug: **Favipiravir** | Drug: **Telmisartan**

URL: <https://ClinicalTrials.gov/show/NCT04356495>

Use of Dexmedetomidine in Light to Moderate Sedation in the Patient in the Palliative Situation of a Sars-cov-2 / COVID-19 Infection; Drug: Treatment with **Dexmedetomidine**<sup>43</sup>

URL: <https://ClinicalTrials.gov/show/NCT04350086>

Anakinra for COVID-19 Respiratory Symptoms; Drug: **Anakinra**<sup>44</sup> plus oSOC|Drug: oSOC

URL: <https://ClinicalTrials.gov/show/NCT04364009>

Covid-19 in Patients With **Chronic Inflammatory Rheumatism, Auto-immune** or Auto-inflammatory Rare and Non-rare Diseases; Interventions: [in the Search Result, no intervention is detailed; however, it is sure that these patients are assuming drugs, therefore this study is very important]

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37 <https://www.nps.org.au/medicine-finder/symbicort-rapihalers-50-3-metered-dose-inhaler>

38 <https://en.wikipedia.org/wiki/Dexamethasone>

39 <https://en.wikipedia.org/wiki/Procalcitonin>

40 [https://en.wikipedia.org/wiki/Immunoglobulin\\_therapy](https://en.wikipedia.org/wiki/Immunoglobulin_therapy)

41 No info available on LEAF-4L7520/4L6715 ; <https://www.medchemexpress.com/Transcrocetin.html>

42 <https://en.wikipedia.org/wiki/Imatinib>

43 <https://en.wikipedia.org/wiki/Dexmedetomidine>

44 <https://en.wikipedia.org/wiki/Anakinra>

URL: <https://ClinicalTrials.gov/show/NCT04353609>

Trial Evaluating Efficacy and Safety of Anticoagulation in Patients With COVID-19 Infection, Nested in the Corimmuno-19 Cohort; Drug: **Tinzaparin**<sup>45</sup> or **unfractionated heparin**<sup>46</sup>

URL: <https://ClinicalTrials.gov/show/NCT04344756>

**ACE Inhibitors** or ARBs Discontinuation in Context of SARS-CoV-2 Pandemic; Drug: 1: discontinuation of RAS blocker therapy | Drug: 2: continuation of **RAS blocker**<sup>47</sup> therapy

URL: <https://ClinicalTrials.gov/show/NCT04329195>

Efficacy of Intravenous **Anakinra** and **Ruxolitinib**<sup>48</sup> During COVID-19 Inflammation (JAKINCOV); Drug: Anakinra alone (stages 2b/3)|Drug: Anakinra and Ruxolitinib (overcome stage 3)|Other: Standard of care

URL: <https://ClinicalTrials.gov/show/NCT04366232>

CORIMUNO19-ECU: Trial Evaluating Efficacy and Safety of **Eculizumab**<sup>49</sup> (Soliris) in Patients With COVID-19 Infection, Nested in the CORIMUNO-19 Cohort; Drug: Eculizumab

URL: <https://ClinicalTrials.gov/show/NCT04346797>

Azithromycin+Amoxicillin/Clavulanate vs Amoxicillin/Clavulanate in COVID19 Patients With Pneumonia in Non-intensive Unit; Combination Product: **Azithromycin**<sup>50</sup> with amoxicillin/clavulanate|Drug: **amoxicillin/clavulanate**<sup>51</sup>

URL: <https://ClinicalTrials.gov/show/NCT04363060>

Cell Therapy Using Umbilical Cord-derived Mesenchymal Stromal Cells in SARS-CoV-2-related ARDS; Biological: **Umbilical cord Wharton's jelly-derived human**<sup>52</sup> | Other: NaCl 0.9%

URL: <https://ClinicalTrials.gov/show/NCT04333368>

Efficacy of **BCG Vaccination**<sup>53</sup> in the Prevention of COVID19 Via the Strengthening of Innate Immunity in Health Care Workers; Biological: BCG GROUP | Other: PLACEBO GROUP

URL: <https://ClinicalTrials.gov/show/NCT04384549>

**Hydroxychloroquine Plus Azithromycin** Versus **Hydroxychloroquine** for COVID-19 Pneumonia (COVIDOC Trial); Drug: Hydroxychloroquine + placebo|Drug: hydroxychloroquine + azithromycin

URL: <https://ClinicalTrials.gov/show/NCT04345861>

Efficacy of **Convalescent Plasma** Therapy in the Early Care of COVID-19 Patients; Drug: Transfusion of SARS-CoV-2 Convalescent Plasma.|Drug: Transfusion of standard Plasma.

URL: <https://ClinicalTrials.gov/show/NCT04372979>

IMATINIB IN COVID-19 DISEASE IN AGED PATIENTS; Drug: **Experimental drug**

URL: <https://ClinicalTrials.gov/show/NCT04357613>

Phase II RCT to Assess Efficacy of Intravenous Administration of **Oxytocin** in Patients Affected by COVID-19; Drug: Oxytocin|Drug: Standard of Care

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45 <https://www.rxlist.com/innohep-drug.htm>

46 <https://en.wikipedia.org/wiki/Heparin>

47 <https://www.ema.europa.eu/en/medicines/human/referrals/renin-angiotensin-system-ras-acting-agents>

48 <https://www.osservatoriomalattierare.it/news/attualita/15942-covid-19-ruxolitinib-entra-nel-programma-di-uso-compassionevole>

49 <https://en.wikipedia.org/wiki/Eculizumab>

50 <https://en.wikipedia.org/wiki/Azithromycin>

51 <https://www.rxlist.com/augmentin-drug.htm>

52 [https://en.wikipedia.org/wiki/Wharton%27s\\_jelly](https://en.wikipedia.org/wiki/Wharton%27s_jelly)

53 [https://en.wikipedia.org/wiki/BCG\\_vaccine](https://en.wikipedia.org/wiki/BCG_vaccine)

URL: <https://ClinicalTrials.gov/show/NCT04386447>

OUTpatient Treatment of COVID-19 in Patients With Risk Factor for Poor Outcome; Drug: **Azithromycin** | Drug: **Hydroxychloroquine** | Drug: **Lopinavir 200Mg/ Ritonavir<sup>54</sup> 50Mg Tab**

URL: <https://ClinicalTrials.gov/show/NCT04365582>

Study of Immune Modulatory Drugs and Other Treatments in COVID-19 Patients: Sarilumab, **Azithromycin, Hydroxychloroquine** Trial - CORIMUNO-19 - VIRO; Drug: **Sarilumab** | Drug: Azithromycin|Drug: Hydroxychloroquine

URL: <https://ClinicalTrials.gov/show/NCT04341870>

SOLIRIS® (Eculizumab) Treatment of Participants With COVID-19; Biological: **eculizumab**

URL: <https://ClinicalTrials.gov/show/NCT04355494>

DYNAMIC Study (Doxycycline AMbulatoire COVID-19); Drug: **Doxycycline<sup>55</sup>** | Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04371952>

Cohort Multiple Randomized Controlled Trials Open-label of Immune Modulatory Drugs and Other Treatments in COVID-19 Patients - **Sarilumab** Trial - CORIMUNO-19 - SARI; Drug: Sarilumab

URL: <https://ClinicalTrials.gov/show/NCT04324073>

Impact of Long-term **Protease Inhibitors<sup>56</sup>** in Patients Living With HIV on the Incidence of COVID-19 ( COVIP ); Other: No intervention

URL: <https://ClinicalTrials.gov/show/NCT04357639>

Chemoprophylaxis of SARS-CoV-2 Infection (COVID-19) in Exposed Healthcare Workers; Drug: **Hydroxychloroquine** | Drug: Placebo of Hydroxychloroquine|Drug: **Lopinavir and ritonavir** | Drug: Placebo of LPV/r Tablets

URL: <https://ClinicalTrials.gov/show/NCT04328285>

Corticosteroids During Covid-19 Viral Pneumonia Related to SARS-Cov-2 Infection; Drug: **Prednisone<sup>57</sup>** | Other: Control group

URL: <https://ClinicalTrials.gov/show/NCT04344288>

Study to Evaluate the Safety and Antiviral Activity of **Remdesivir** (GS-5734™) in Participants With Severe Coronavirus Disease (COVID-19); Drug: Remdesivir|Drug: Standard of Care

URL: <https://ClinicalTrials.gov/show/NCT04292899>

Study to Evaluate the Safety and Antiviral Activity of **Remdesivir** (GS-5734™) in Participants With Moderate Coronavirus Disease (COVID-19) Compared to Standard of Care Treatment; Drug: Remdesivir|Drug: Standard of Care

URL: <https://ClinicalTrials.gov/show/NCT04292730>

A Study to Evaluate the Safety and Efficacy of **Tocilizumab** in Patients With Severe COVID-19 Pneumonia; Drug: Tocilizumab (TCZ)|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04320615>

Acalabrutinib Study With Best Supportive Care Versus Best Supportive Care in Subjects Hospitalized With COVID-19; Drug: **Acalabrutinib**

URL: <https://ClinicalTrials.gov/show/NCT04346199>

54 <https://www.humanitas.it/enciclopedia/principi-attivi/antivirali/combinazione-lopinavir-ritonavir> ; <https://it.wikipedia.org/wiki/Lopinavir/ritonavir>

55 <https://www.drugs.com/doxycycline.html>

56 [https://en.wikipedia.org/wiki/Protease\\_inhibitor\\_\(pharmacology\)](https://en.wikipedia.org/wiki/Protease_inhibitor_(pharmacology))

57 <https://it.wikipedia.org/wiki/Prednisone>

Prospective Study in Patients With Advanced or Metastatic Cancer and SARS-CoV-2 Infection; Drug: **Chloroquine analog (GNS651)**<sup>58</sup> | Drug: **Nivolumab** | Drug: **Tocilizumab** | Other: Standard of care

URL: <https://ClinicalTrials.gov/show/NCT04333914>

Prevention of SARS-CoV-2 in Hospital Workers s Exposed to the Virus; Drug: **hydroxychloroquine** | Drug: **azithromycin** | Drug: hydroxychloroquine placebo

URL: <https://ClinicalTrials.gov/show/NCT04344379>

Weight-Adjusted vs Fixed Low Doses of Low Molecular Weight Heparin For Venous Thromboembolism Prevention in COVID-19; Drug: **Enoxaparin**

URL: <https://ClinicalTrials.gov/show/NCT04373707>

Efficacy of **Captopril**<sup>59</sup> in Covid-19 Patients With Severe Acute Respiratory Syndrome (SARS) CoV-2 Pneumonia (CAPTOCOVID); Drug: captopril 25mg

URL: <https://ClinicalTrials.gov/show/NCT04355429>

Expanded Access Treatment Protocol: **Remdesivir** (RDV; GS-5734) for the Treatment of SARS-CoV2 (CoV) Infection (COVID-19); Drug: Remdesivir

URL: <https://ClinicalTrials.gov/show/NCT04323761>

Trial of Treatments for COVID-19 in Hospitalized Adults; Drug: **Remdesivir** | Drug: **Lopinavir/ritonavir** | Drug: **Interferon Beta-1A**<sup>60</sup> | Drug: **Hydroxychloroquine** | Other: Standard of care

URL: <https://ClinicalTrials.gov/show/NCT04315948>

Sarilumab COVID-19; Drug: **Sarilumab** SAR153191|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04327388>

Evaluation of Activity and Safety of Oral **Selinexor**<sup>61</sup> in Participants With Severe COVID-19 Infection; Drug: Selinexor|Other: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04349098>

Covid-19 and Vitamin D Supplementation: a Multicenter Randomized Controlled Trial of High Dose Versus Standard Dose **Vitamin D3**<sup>62</sup> in High-risk COVID-19 Patients (CoVitTrial); Drug: cholecalciferol 200,000 IU|Drug: cholecalciferol 50,000 IU

URL: <https://ClinicalTrials.gov/show/NCT04344041>

**Hydroxychloroquine** in Outpatient Adults With COVID-19; Drug: Hydroxychloroquine SAR321068|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04333654>

**Hydroxychloroquine** Versus Placebo in COVID-19 Patients at Risk for Severe Disease; Drug: Hydroxychloroquine|Drug: Placebo

URL: <https://ClinicalTrials.gov/show/NCT04325893>

Role of **Ibuprofen**<sup>63</sup> and Other Medicines on Severity of Coronavirus Disease 2019; Other: Questionnaire

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58 <https://www.genosciencepharma.com/2020/04/05/important-advances-in-novel-covid-19-antiviral-program/>

59 <https://it.wikipedia.org/wiki/Captopril>

60 [https://en.wikipedia.org/wiki/Interferon\\_beta-1a](https://en.wikipedia.org/wiki/Interferon_beta-1a)

61 <https://en.wikipedia.org/wiki/Selinexor>

62 Sparavigna, Amelia Carolina. (2020, May 12). Vitamin D for Covid-19?. Zenodo. <http://doi.org/10.5281/zenodo.3822187>

63 <https://en.wikipedia.org/wiki/Ibuprofen>

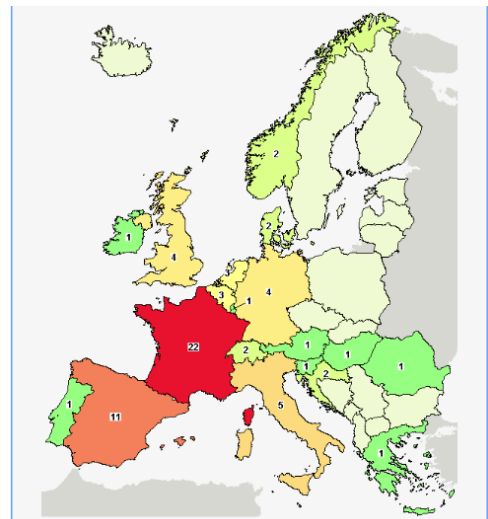
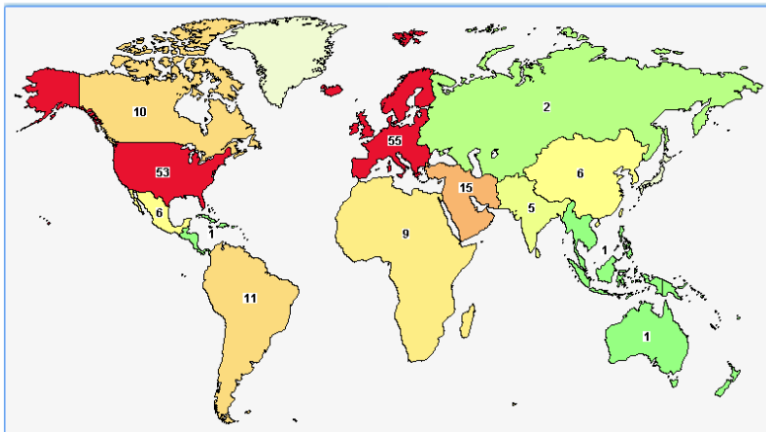
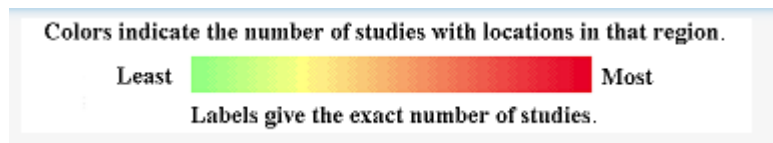
URL: <https://ClinicalTrials.gov/show/NCT04383899>

CORIMUNO-19 - Tocilizumab Trial - TOCI (CORIMUNO-TOCI); Drug: **Tocilizumab**

URL: <https://ClinicalTrials.gov/show/NCT04331808>

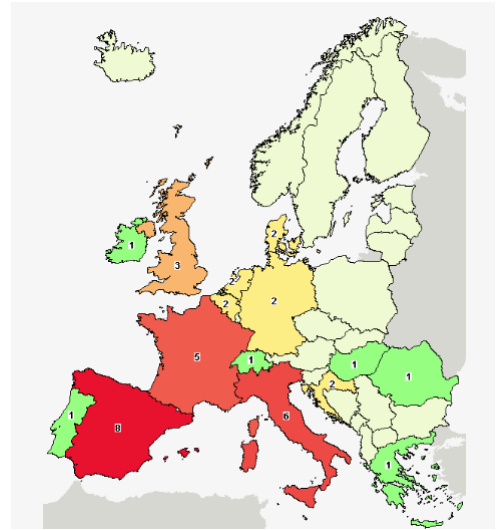
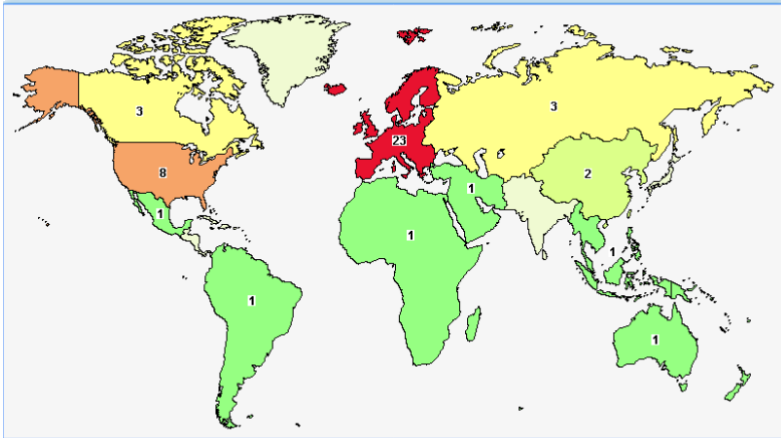
From the lists given above, we can see that some drugs are largely involved in trials, so it could be useful to observe the related maps of them, on global and continental (Europe) scale.

### Maps (Courtesy ClinicalTrials.gov)



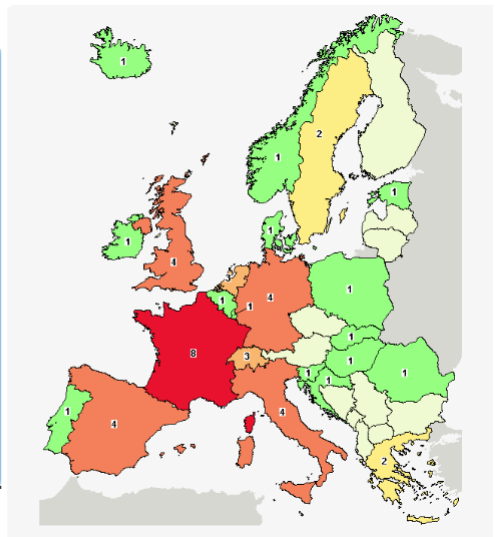
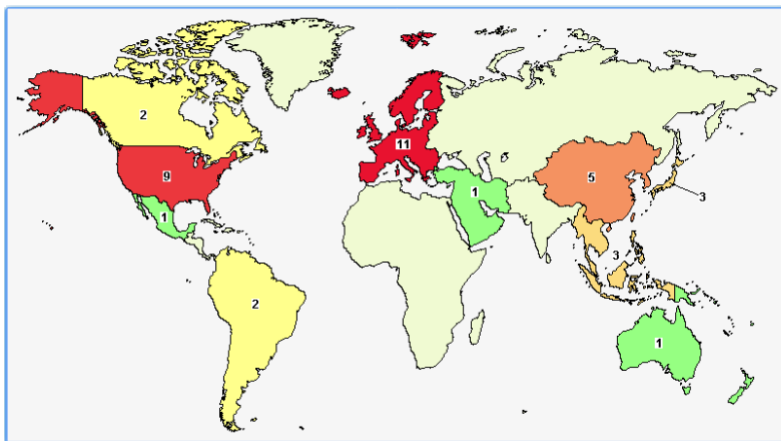
### Maps of the clinical trials using Hydroxychloroquine





**Maps of the clinical trials using Tocilizumab**

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**Maps of the clinical trials using Remdesivir**