**PubMed search strategy**

This search strategy does not include any limit and this will be updated because there are ongoing trials which should be included in this study.

| # | Searches | Results |
|---|---|---|
| 1 | "remdesivir"[Supplementary Concept] OR "remdesivir"[All Fields] | 81 |
| 2 | "viruses/drug effects"[MeSH Terms] | 59,974 |
| 3 | (("antiviral agents"[Pharmacological Action] OR "antiviral agents"[MeSH Terms]) OR ("antiviral"[All Fields] AND "agents"[All Fields])) OR "antiviral agents"[All Fields] | 383,998 |
| 4 | "Nucleotide-analogue"[All Fields] | 797 |
| 5 | (((("antiviral agents"[Pharmacological Action] OR "antiviral agents"[MeSH Terms]) OR ("antiviral"[All Fields] AND "agents"[All Fields])) OR "antiviral agents"[All Fields]) OR ("antiviral"[All Fields] AND "drug"[All Fields])) OR "antiviral drug"[All Fields] | 392,120 |
| 6 | ((((("antiviral agents"[Pharmacological Action] OR "antiviral agents"[MeSH Terms]) OR ("antiviral"[All Fields] AND "agents"[All Fields])) OR "antiviral agents"[All Fields]) OR ("antiviral"[All Fields] AND "drug"[All Fields])) OR "antiviral drug"[All Fields]) AND "antiviral agents/therapeutic use"[MeSH Terms] | 98,451 |
| 7 | 1 OR 2 OR 3 OR 4 OR 5 OR 6 | 407,526 |
| 8 | "coronavirus"[MeSH Terms] OR "coronavirus"[All Fields] OR "coronaviruses"[All Fields] | 18,508 |
| 9 | (("coronavirus"[MeSH Terms] OR "coronavirus"[All Fields]) OR "coronaviruses"[All Fields]) AND "coronavirus infections/virology"[MeSH Major Topic] | 1,050 |
| 10 | "covid 19"[Supplementary Concept] OR "covid 19"[All Fields] OR "coronavirus disease 2019"[All Fields] | 4,227 |
| 11 | ((((((("covid 19"[All Fields] OR "covid 2019"[All Fields]) OR "severe acute respiratory syndrome coronavirus 2"[Supplementary Concept]) OR "severe acute respiratory syndrome coronavirus 2"[All Fields]) OR "2019 ncov"[All Fields]) OR "sars cov 2"[All Fields]) OR "2019ncov"[All Fields]) OR (("wuhan"[All Fields] AND ("coronavirus"[MeSH Terms] OR "coronavirus"[All Fields])) AND (2019/12/1:2019/12/31[Date - Publication] OR 2020/1/1:2020/12/31[Date - Publication])) | 4,656 |
| 12 | "severe acute respiratory syndrome coronavirus 2"[Supplementary Concept] OR "severe acute respiratory syndrome coronavirus 2"[All Fields] OR "2019 novel coronavirus"[All Fields] | 1,429 |

| 13 | "severe acute respiratory syndrome coronavirus 2"[Supplementary Concept] OR "severe acute respiratory syndrome coronavirus 2"[All Fields] OR "2019 ncov"[All Fields] | 1,465 |
|---|---|---|
| 14 | "severe acute respiratory syndrome coronavirus 2"[Supplementary Concept] OR "severe acute respiratory syndrome coronavirus 2"[All Fields] OR "sars cov 2"[All Fields] | 1,931 |
| 15 | "spike glycoprotein sars cov"[Supplementary Concept] | 452 |
| 16 | (((((((((("sever"[All Fields] OR "severe"[All Fields]) OR "severed"[All Fields]) OR "severely"[All Fields]) OR "severer"[All Fields]) OR "severes"[All Fields]) OR "severing"[All Fields]) OR "severities"[All Fields]) OR "severity"[All Fields]) OR "severs"[All Fields]) AND (("acute"[All Fields] OR "acutely"[All Fields]) OR "acutes"[All Fields]) AND "respiratory"[All Fields] AND (((((((("syndrom"[All Fields] OR "syndromal"[All Fields]) OR "syndromally"[All Fields]) OR "syndrome"[MeSH Terms]) OR "syndrome"[All Fields]) OR "syndromes"[All Fields]) OR "syndrome s"[All Fields]) OR "syndromic"[All Fields]) OR "syndroms"[All Fields]) AND (("coronavirus"[MeSH Terms] OR "coronavirus"[All Fields]) OR "coronaviruses"[All Fields]) | 4,936 |
| 17 | 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 | 20,471 |
| 18 | "randomized controlled trial"[Publication Type] OR "randomized controlled trials as topic"[MeSH Terms] OR "randomized controlled trials"[All Fields] OR "randomised controlled trials"[All Fields] | 676,631 |
| 19 | "randomized controlled trials as topic/methods"[MeSH Terms] | 9,652 |
| 20 | "RCTs"[All Fields] | 32,846 |
| 21 | 18 OR 19 OR 20 | 681,739 |
| 22 | 7 AND 17 AND 21 | 18 |