**Supplementary Appendix 1.** Search terms and strategies

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| --- | --- | --- |
| Covid 19 | Vaccine efficacy  | Long term symptoms  |
| MeSHCOVID-19SARS-CoV-2Coronavirus Infections (no explode) | MeSHVaccine efficacyCovid-19 VaccinesRNA, MessengerVaccinesImmunization (inc vaccination) **AND**Treatment outcome  | MeSHComplications subheadingPost acute covid 19 syndromeChronic disease |
| KeywordsCovidCovid 19Corona virusCoronavirus2019-nCoV SARS-CoV-2 2019-nCoV  | KeywordsVaccine(s)Vaccination(s)Vaccinated PfizerBnt162b2Modernaimmunization(s)variolation(s)Immunologic stimulationImmunostimulationImmunotherap (y,ies)mRNA-1273ChAdOx1-SAZD1222AstraZeneca/OxfordJanssenJohnson&JohnsonAd26COVS1JNJ-78436735GamaleyaSputnik VSinovacCorona VacNovavaxCovaxinsinopharm**AND**EffectivenessEfficacy EffectiveAntibody response Antibody levelsIgGNeutralizing antibodiesSuccess | KeywordsLong  haulerLong term Long haul Post acuteChronic Expandedextended recurr\* sustain\* persist\* prolong\* continu\* Debilitating**AND**effect\* symptom\* impact\* outcome\*recover\* suffer\*sequela\* impair\* |

**MEDLINE via Ovid 4/27/22**

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**Embase 4/27/22**

#1

'long covid'/exp

OR

'long haul':ab,ti OR 'long hauler':ab,ti OR 'long term':ab,ti OR 'long covid':ab,ti OR 'post acute':ab,ti

OR

((chronic OR expanded OR extended OR recurr\* OR sustain\* OR persist\* OR prolong\* OR continu\* OR debilitating) NEAR/2 (effect\* OR symptom\* OR impact\* OR outcome\* OR recover\* OR suffer\* OR sequala\* OR impair\*)):ti,ab

#2

'coronavirus disease 2019'/exp OR 'coronavirus infection'/de OR covid:ab,ti OR 'covid 19':ab,ti OR 'corona virus':ab,ti OR coronavirus:ab,ti OR 'sars-cov-2':ab,ti OR '2019-ncov':ab,ti

#3

'messenger rna'/exp OR 'vaccine'/exp OR 'vaccination'/exp OR 'immunization'/exp OR vaccine\*:ab,ti OR vaccination\*:ab,ti OR pfizer:ab,ti OR moderna:ab,ti OR immunization\*:ab,ti OR variolation\*:ab,ti OR 'immunologic stimulation':ab,ti OR immunostimulation:ab,ti OR gamaleya:ab,ti OR 'sputnik v':ab,ti OR sinovac:ab,ti OR 'corona vac':ab,ti OR astrazeneca:ab,ti OR 'azd1222':ab,ti OR 'mrna-1273':ab,ti OR janssen:ab,ti OR 'johnson & johnson':ab,ti OR 'jnj-78436735':ab,ti OR Novavax:ab,ti OR Covaxin:ab,ti OR sinopharm:ab,ti

#4

'drug efficacy'/exp OR 'treatment outcome'/exp OR effectiveness:ti,ab OR efficacy:ti,ab OR effective:ti,ab OR 'antibody response':ab,ti OR 'antibody levels':ab,ti OR igg:ab,ti OR 'neutralizing antibodies':ab,ti OR success:ti,ab OR prevent:ti,ab OR prevention:ti,ab OR protect:ti,ab OR protection:ti,ab OR protecting:ti,ab OR 'sars-cov-2 antibody'/exp

#1 AND #2 AND #3 AND #4=1253

**CINAHL 4/27/22**

#1

(MH "RNA, Messenger" OR MH "Vaccines+" OR MH "Immunization" OR Vaccine\* OR Vaccination\* OR  Pfizer OR  Moderna OR immunization\* OR variolation\* OR “immunologic stimulation" OR  Immunostimulation OR Gamaleya OR "Sputnik V" OR  Sinovac OR "Corona Vac" OR AstraZeneca OR Janssen OR "AZD1222" OR "mRNA-1273" OR Janssen OR "Johnson & Johnson" OR "JNJ-78436735") AND (MH "Coronavirus Infections" OR MH "COVID-19" OR MH "SARS-CoV-2" OR Covid OR "Covid 19" OR "Corona virus" OR Coronavirus OR "2019-nCoV" OR "SARS-CoV-2" OR   "2019-nCoV")

OR

MH "COVID-19 Vaccines"

#2

"long haul" OR "long hauler" OR "long term" OR "long covid" OR "post acute"

OR

(chronic OR expanded OR extended OR recurr\* OR sustain\* OR persist\* OR prolong\* OR continu\* OR debilitating) N2 (effect\* OR symptom\* OR impact\* OR outcome\* OR recover\* OR suffer\* OR sequala\* OR impair\*)

#3

(MH "Drug Efficacy") OR (MH "Treatment Outcomes+")

OR

TI ( Effective\* OR efficacy OR “antibody response'” OR “antibody levels” OR igg OR “neutralizing antibodies” OR success OR prevent OR prevention OR protect\* OR “sars-cov-2 antibody” ) OR AB ( Effective\* OR efficacy OR “antibody response'” OR “antibody levels” OR igg OR “neutralizing antibodies” OR success OR prevent OR prevention OR protect\* OR “sars-cov-2 antibody” )

#1 AND #2 AND #3=580

**Scopus 4/27/22**

#1

TITLE-ABS-KEY ( vaccine\* OR  vaccination\* OR pfizer OR moderna OR immunization\* OR  variolation\* OR  "immunologic stimulation"OR immunostimulation  OR  gamaleya  OR  "Sputnik V"  OR  sinovac  OR  "Corona Vac"  OR  astrazeneca  OR  janssen  OR  "AZD1222"  OR  "mRNA-1273" OR janssen OR "Johnson & Johnson" OR "JNJ-78436735") AND  TITLE-ABS-KEY ( covid OR "Covid 19" OR "Corona virus" OR coronavirus OR 2019ncov OR  sarscov2 OR  2019-ncov)

#2

(chronic OR expanded OR extended OR recurr\* OR sustain\* OR persist\* OR prolong\* OR  continu\* OR  debilitating) W/2 (effect\* OR symptom\* OR  impact\* OR outcome\* OR recover\*  OR suffer\* OR sequala\* OR  impair\*)

OR

TITLE-ABS-KEY "long haul" OR "long hauler" OR "long term" OR "long covid" OR "post acute"

#3

 TITLE (effective\* OR efficacy OR "antibody response'" OR "antibody levels" OR igg OR  "neutralizing antibodies" OR success OR prevent OR prevention OR protect\* OR "sars-cov-2 antibody") OR ABS (effective\* OR efficacy OR "antibody response'" OR "antibody levels" OR  igg OR "neutralizing antibodies" OR success OR prevent OR prevention OR protect\* OR  "sars-cov-2 antibody")

#1 AND #2 AND #3=1540, without reviews=1068

**Web of Science 4/27/22**

TS=(vaccine\* OR vaccination\*OR pfizer OR moderna OR immunization\* OR  variolation\* OR  "immunologic stimulation"OR immunostimulation  OR  gamaleya  OR  "Sputnik V" OR sinovac OR "Corona Vac" OR astrazeneca OR janssen OR "AZD1222"  OR "mRNA-1273" OR janssen OR "Johnson & Johnson" OR "JNJ-78436735") AND TS=(covid OR "Covid 19" OR "Corona virus" OR coronavirus OR 2019ncov OR  sarscov2 OR  2019-ncov)

#2

TS=(chronic OR expanded OR extended OR recurr\* OR sustain\* OR persist\* OR prolong\* OR  continu\* OR  debilitating) NEAR/2 (effect\* OR symptom\* OR  impact\* OR outcome\* OR recover\*  OR suffer\* OR sequala\* OR  impair\*)

OR

TS=("long haul" OR "long hauler" OR "long term" OR "long covid" OR "post acute" )

#3

TI=(effective\* OR efficacy OR "antibody response'" OR "antibody levels" OR igg OR  "neutralizing antibodies" OR success OR prevent OR prevention OR protect\* OR "sars-cov-2 antibody") OR AB=(effective\* OR efficacy OR "antibody response'" OR "antibody levels" OR igg OR  "neutralizing antibodies" OR success OR prevent OR prevention OR protect\* OR "sars-cov-2 antibody")

#1 AND #2 AND #3=934

**Cochrane 4/27/22**

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