

Data S1. Search strategy of electronic database.

Pubmed.

1. Title/Abstract=(Chronic Renal Insufficiencies OR Renal Insufficiencies, Chronic OR Chronic Renal Insufficiency OR Kidney Insufficiency, Chronic OR Chronic Kidney Insufficiency OR Chronic Kidney Insufficiencies OR Kidney Insufficiencies, Chronic OR Chronic Kidney Diseases OR Chronic Kidney Disease OR Disease, Chronic Kidney OR Diseases, Chronic Kidney OR Kidney Disease, Chronic OR Kidney Diseases, Chronic OR Chronic Renal Diseases OR Chronic Renal Disease OR Disease, Chronic Renal OR Diseases, Chronic Renal OR Renal Disease, Chronic OR Renal Diseases, Chronic)
2. Title/Abstract=(Dialyses, Renal OR Renal Dialyses OR Dialysis, Renal Hemodialysis OR Hemodialyses OR Dialysis, Extracorporeal OR Dialyses, Extracorporeal OR Extracorporeal Dialyses OR Extracorporeal Dialysis)
3. Title/Abstract=(COVID 19 Vaccines OR Vaccines, COVID-19 OR COVID-19 Virus Vaccines OR COVID 19 Virus Vaccines OR Vaccines, COVID-19 Virus OR Virus Vaccines, COVID-19 OR COVID-19 Virus Vaccine OR COVID 19 Virus Vaccine OR Vaccine, COVID-19 Virus OR Virus Vaccine, COVID-19 OR COVID19 Virus Vaccines OR Vaccines, COVID19 Virus OR Virus Vaccines, COVID19 OR COVID19 Virus Vaccine OR Vaccine, COVID19 Virus OR Virus Vaccine, COVID19 OR COVID19 Vaccines OR Vaccines, COVID19 OR COVID19 Vaccine OR Vaccine, COVID19 OR SARS-CoV-2 Vaccines OR SARS CoV 2 Vaccines OR Vaccines, SARS-CoV-2 OR SARS-CoV-2 Vaccine OR SARS CoV 2 Vaccine OR Vaccine, SARS-CoV-2 OR SARS2 Vaccines OR Vaccines OR SARS2 OR SARS2 Vaccine OR Vaccine, SARS2 OR Coronavirus Disease 2019 Vaccines OR Coronavirus Disease 2019 Vaccine OR Coronavirus Disease 2019 Virus Vaccine OR Coronavirus Disease 2019 Virus Vaccines OR Coronavirus Disease-19 Vaccines OR Coronavirus Disease 19 Vaccines OR Vaccines OR Coronavirus Disease-19 OR Coronavirus Disease-19 Vaccine OR Coronavirus Disease 19 Vaccine OR Vaccine, Coronavirus Disease-19 OR COVID 19 Vaccine OR Vaccine, COVID 19 OR 2019-nCoV Vaccine OR 2019 nCoV Vaccine OR Vaccine, 2019-nCoV OR 2019 Novel Coronavirus Vaccines OR 2019 Novel Coronavirus Vaccine OR 2019-nCoV Vaccines OR 2019 nCoV Vaccines OR Vaccines, 2019-nCoV OR COVID-19 Vaccine OR Vaccine, COVID-19 OR SARS Coronavirus 2 Vaccines)
4. #3AND #2 AND #1

Web of science

1. TS=(Chronic Renal Insufficiencies OR Renal Insufficiencies, Chronic OR Chronic Renal Insufficiency OR Kidney Insufficiency, Chronic OR Chronic Kidney Insufficiency OR Chronic Kidney Insufficiencies OR Kidney Insufficiencies, Chronic OR Chronic Kidney Diseases OR Chronic Kidney Disease OR Disease, Chronic Kidney OR Diseases, Chronic Kidney OR Kidney Disease, Chronic OR Kidney Diseases, Chronic OR Chronic Renal Diseases OR Chronic Renal

Disease OR Disease, Chronic Renal OR Diseases, Chronic Renal OR Renal Disease, Chronic OR Renal Diseases, Chronic)

2. TS=(Dialyses, Renal OR Renal Dialyses OR Dialysis, Renal Hemodialysis OR Hemodialyses OR Dialysis, Extracorporeal OR Dialyses, Extracorporeal OR Extracorporeal Dialyses OR Extracorporeal Dialysis)

3. TS=(COVID 19 Vaccines OR Vaccines, COVID-19 OR COVID-19 Virus Vaccines OR COVID 19 Virus Vaccines OR Vaccines, COVID-19 Virus OR Virus Vaccines, COVID-19 OR COVID-19 Virus Vaccine OR COVID 19 Virus Vaccine OR Vaccine, COVID-19 Virus OR Virus Vaccine, COVID-19 OR COVID19 Virus Vaccines OR Vaccines, COVID19 Virus OR Virus Vaccines, COVID19 OR COVID19 Virus Vaccine OR Vaccine, COVID19 Virus OR Virus Vaccine, COVID19 OR COVID19 Vaccines OR Vaccines, COVID19 OR COVID19 Vaccine OR Vaccine, COVID19 OR SARS-CoV-2 Vaccines OR SARS CoV 2 Vaccines OR Vaccines, SARS-CoV-2 OR SARS-CoV-2 Vaccine OR SARS CoV 2 Vaccine OR Vaccine, SARS-CoV-2 OR SARS2 Vaccines OR Vaccines OR SARS2 OR SARS2 Vaccine OR Vaccine, SARS2 OR Coronavirus Disease 2019 Vaccines OR Coronavirus Disease 2019 Vaccine OR Coronavirus Disease 2019 Virus Vaccine OR Coronavirus Disease 2019 Virus Vaccines OR Coronavirus Disease-19 Vaccines OR Coronavirus Disease 19 Vaccines OR Vaccines OR Coronavirus Disease-19 OR Coronavirus Disease-19 Vaccine OR Coronavirus Disease 19 Vaccine OR Vaccine, Coronavirus Disease-19 OR COVID 19 Vaccine OR Vaccine, COVID 19 OR 2019-nCoV Vaccine OR 2019 nCoV Vaccine OR Vaccine, 2019-nCoV OR 2019 Novel Coronavirus Vaccines OR 2019 Novel Coronavirus Vaccine OR 2019-nCoV Vaccines OR 2019 nCoV Vaccines OR Vaccines, 2019-nCoV OR COVID-19 Vaccine OR Vaccine, COVID-19 OR SARS Coronavirus 2 Vaccines)

4. #3 AND #2 AND #1

Science direct

Title: Chronic Renal Insufficiencies OR Chronic Kidney Insufficiency OR Chronic Kidney Diseases OR Renal Dialyses OR Hemodialyses OR Extracorporeal Dialyses

Title,abstract or keywords:(COVID 19 Vaccines OR COVID-19 OR COVID-19 Virus Vaccine OR COVID 19 Virus Vaccine OR SARS-CoV-2 Vaccines OR Coronavirus Disease 2019 Vaccine OR Coronavirus Disease 2019 Virus Vaccine OR COVID 19 Vaccine OR SARS Coronavirus 2 Vaccines)

Cochrane library

1. Ti/Ab/kw=(Chronic Renal Insufficiencies OR Chronic Kidney Insufficiency OR Chronic Kidney Diseases)
2. Ti/Ab/kw=(Renal Dialyses OR Hemodialyses OR Extracorporeal Dialyses)
3. Title/Abstract=(COVID 19 Vaccines OR COVID-19 OR COVID-19 Virus Vaccine OR COVID 19 Virus Vaccine OR SARS-CoV-2 Vaccines OR Coronavirus Disease 2019 Vaccine OR Coronavirus Disease 2019 Virus Vaccine OR COVID 19 Vaccine OR SARS Coronavirus 2 Vaccines)
4. #3 AND #2 AND #1

Figure S1. Seropositivity rate of patients with chronic kidney disease undergoing dialysis and receiving coronavirus disease 2019 vaccine after removing studies with large sample sizes. DL, DerSimonian-Laird.

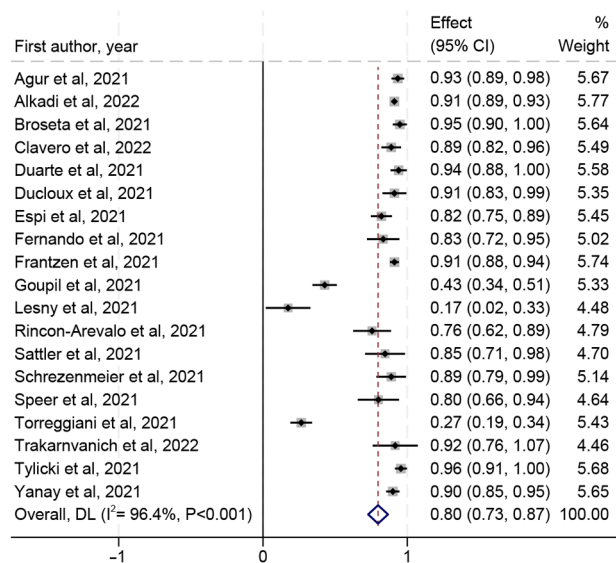


Figure S2. Forest plot of fatigue after receiving coronavirus disease 2019 vaccine. DL, DerSimonian-Laird method.

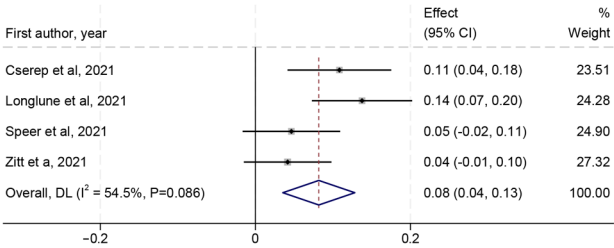


Figure S3. Forest plot of headache after receiving coronavirus disease 2019 vaccine. DL, DerSimonian-Laird.

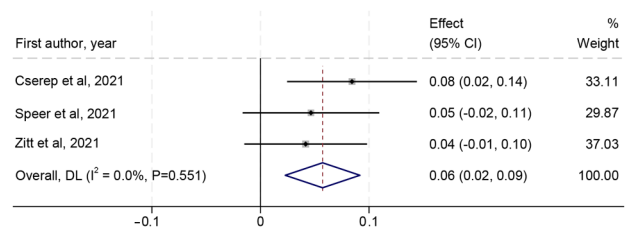


Table SI. Risk of bias assessment according to Risk of Bias in Non-randomized Studies of Interventions.

First author/s, year	Confounding factors	Selection of participants	Classification of intervention	Deviation from intended intervention	Missing data	Measurement of outcomes	Selection of reported results	Overall risk of bias	(Refs .)
Agur <i>et al</i> , 2021	Moderate	Low	Low	Low	Low	Moderate	Low	Low	(24)
Alkadi <i>et al</i> , 2022	Low	Low	Low	Low	Moderate	Low	Low	Low	(43)
Ben-Dov <i>et al</i> , 2022	Moderate	Low	Low	Low	Low	Low	Low	Low	(44)
Bielopolski <i>et al</i> , 2022	Low	Moderate	Low	Low	Moderate	Low	Moderate	Low	(45)
Broseta <i>et al</i> , 2021	Low	Moderate	No information	Low	Low	Low	Low	Low	(25)
Butt <i>et al</i> , 2022	Moderate	Low	Low	No information	Low	Low	No information	Low	(46)
Clavero <i>et al</i> , 2022	No information	Low	Low	Low	Low	No information	Low	Low	56
Cserep <i>et al</i> , 2021	Moderate	Moderate	Moderate	Moderate	Moderate	Low	Low	Moderate	36
Davidovic <i>et al</i> , 2022	Low	Low	Moderate	Low	Low	Low	Low	Low	(48)
Duarte <i>et al</i> , 2021	Serious	Low	Low	Low	Low	Low	Low	Low	(47)
Ducloux <i>et al</i> , 2021	No information	Low	No information	Low	Moderate	Low	Low	Moderate	(51)
Espi <i>et al</i> , 2021	Low	Low	Low	Low	Low	Low	Low	Low	(52)
Fernando <i>et al</i> , 2021	Serious	Low	No information	Low	Moderate	Low	Low	Low	(53)
Frantzen <i>et al</i> , 2021	No information	No information	No information	Moderate	Moderate	Moderate	Low	Serious	(54)
Goupil <i>et al</i> , 2021	Moderate	Low	Low	Low	Low	Low	Low	Low	(55)
Labriola <i>et al</i> , 2021	Moderate	Low	Low	Low	Low	Low	Low	Low	(26)
Lesny <i>et al</i> , 2021	Moderate	Low	Low	Serious	Serious	Low	Low	Serious	(27)
Longlune <i>et al</i> , 2021	Low	Low	Low	Low	Low	Low	Low	Low	(28)
Quiroga <i>et al</i> , 2022	Low	Low	Low	Moderate	No information	Low	Moderate	Moderate	(49)

[illegible]