

Supplementary material 1. Complete Boolean Search Syntax for Each Database

PubMed

("COVID-19"[Mesh] OR "SARS-CoV-2"[Mesh] OR "long COVID" OR "post-acute COVID" OR "post-acute sequelae of SARS-CoV-2" OR "PASC")

AND

("heart failure"[Mesh] OR "cardiac failure" OR "heart decompensation" OR "left ventricular dysfunction")

AND

("cardiovascular complications" OR "cardiac outcomes" OR "long-term outcomes" OR "chronic effects" OR "sequelae")

Filters: Publication date from 2020/01/01 to 2025/04/30; Humans; English.

Scopus

(TITLE-ABS-KEY("COVID-19" OR "SARS-CoV-2" OR "long COVID" OR "post-acute COVID" OR "post-acute sequelae of SARS-CoV-2" OR PASC)

AND

TITLE-ABS-KEY("heart failure" OR "cardiac failure" OR "heart decompensation" OR "left ventricular dysfunction")

AND

TITLE-ABS-KEY("cardiovascular complications" OR "cardiac outcomes" OR "long-term outcomes" OR "chronic sequelae")

AND (LIMIT-TO(LANGUAGE, "English"))

AND (PUBYEAR > 2019 AND PUBYEAR < 2026)

Web of Science

TS=("COVID-19" OR "SARS-CoV-2" OR "long COVID" OR "post-acute COVID" OR "post-acute sequelae of SARS-CoV-2" OR PASC)

AND

TS=("heart failure" OR "cardiac failure" OR "heart decompensation" OR "left ventricular dysfunction")

AND

TS=("cardiovascular complications" OR "cardiac outcomes" OR "long-term outcomes" OR "chronic sequelae")

Refined by: Document types = (Article OR Review); Languages = (English); Timespan: 2020–2025.

Embase

('COVID-19'/exp OR 'SARS-CoV-2'/exp OR 'long COVID' OR 'post-acute COVID' OR 'PASC')

AND

('heart failure'/exp OR 'cardiac failure' OR 'left ventricular dysfunction')

AND

('cardiovascular complications' OR 'cardiac outcomes' OR 'long-term outcomes' OR 'chronic sequelae')

AND [2020-2025]/py AND [English]/lim AND [human]/lim

Additional Notes

- Manual reference screening was performed for all included articles to identify additional eligible studies.*
- Grey literature, preprints, editorials, and conference abstracts were excluded.*
- Search last updated: April 30, 2025.*