

Supplementary Table 1. Keywords of search strategy

Database	Keywords
PubMed	((“Pneumocystis pneumonia” [tiab] OR “Pneumocystis” [tiab] OR “Pneumocystis infection” [tiab] OR “Pneumocystis coinfection” [tiab] OR “Pneumocystis pneumonia co-infection” [tiab] OR “Fungal infection” [tiab] OR “Fungal coinfection” [tiab] OR “Fungal co-infection” [tiab] OR “SARS-CoV-2” [tiab] OR “SARS-CoV-2 infection” [tiab] OR “SARS-CoV-2 disease” [tiab] OR “Coronavirus-2” [tiab] OR “Coronavirus-2 infection” [tiab] OR “Coronavirus-2 disease” [tiab] OR “Covid-19” [tiab] OR (“Covid-19” [tiab] AND “Pneumocystis” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis infection” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis disease” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis coinfection” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis co-infection” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis infection” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis pneumonia infection” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis pneumonia disease” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis pneumonia coinfection” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis pneumonia co-infection” [tiab]) OR (“SARS-CoV-2” [tiab] AND “Pneumocystis pneumonia co-infection” [tiab]) OR (“Coronavirus-2” [tiab] AND “Pneumocystis pneumonia” [tiab]) OR (“Coronavirus-2” [tiab] AND “Pneumocystis pneumonia infection” [tiab]) OR (“Coronavirus-2” [tiab] AND “Pneumocystis pneumonia infection” [tiab]) OR (“Coronavirus-2” [tiab] AND “Pneumocystis pneumonia disease” [tiab]) OR (“Coronavirus-2” [tiab] AND “Pneumocystis pneumonia coinfection” [tiab]) OR (“Coronavirus-2” [tiab] AND “Pneumocystis pneumonia co-infection” [tiab]) OR (“Covid-19” [tiab] AND “Fungal infection” [tiab]) OR (“Covid-19” [tiab] AND “Fungal coinfection” [tiab]) OR (“Covid-19” [tiab] AND “Fungal co-infection” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis pneumonia infection” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis pneumonia coinfection” [tiab]) OR (“Covid-19” [tiab] AND “Pneumocystis pneumonia co-infection” [tiab]) AND 12/01/2019:01/01/2022 [dp]))
Scopus	(TITLE (“Pneumocystis”) OR TITLE (“Pneumocystis pneumonia ”) OR TITLE (“Pneumocystis infection”) OR TITLE (“Pneumocystis coinfection”) OR TITLE (“Pneumocystis co-infection”) OR TITLE (“Fungal infection”) OR TITLE (“Fungal coinfection”) OR TITLE (“Fungal co-infection”) OR TITLE (“Pneumocystis pneumonia infection”) OR TITLE (“Pneumocystis pneumonia coinfection”) OR TITLE (“Pneumocystis co-infection”) OR TITLE (“SARS-CoV-2”) OR TITLE (“SARS-CoV-2 infection”) OR TITLE (“SARS-CoV-2 disease”) OR TITLE (“Coronavirus-2”) OR TITLE (“Coronavirus-2 infection”) OR TITLE (“Coronavirus-2 disease”) OR TITLE (“Covid-19”) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis infection”)) OR (TITLE (“Covid-19”) AND (“Pneumocystis pneumonia infection”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis disease”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis disease”)) OR (TITLE (“Covid-19”) AND (“Pneumocystis coinfection”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis coinfection”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis co-infection”)) OR (TITLE (“Covid-19”) AND TITLE (“Pneumocystis co-infection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis pneumonia”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis infection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis infection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis disease”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis disease”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis coinfection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis coinfection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis co-infection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis co-infection”)) OR (TITLE (“SARS-CoV-2”) AND TITLE (“Pneumocystis co-infection”)) OR (TITLE (“Coronavirus-2”) AND TITLE (“Pneumocystis”)) OR (TITLE (“Coronavirus-2”) AND TITLE (“Pneumocystis”)) OR (TITLE (“Coronavirus-2”) AND TITLE (“Pneumocystis pneumonia infection”)) OR TITLE (“Coronavirus-2”) AND TITLE (“Pneumocystis pneumonia infection”)) OR (TITLE (“Coronavirus-2”) AND TITLE (“Pneumocystis disease”)) OR (TITLE (“Coronavirus-2”) AND TITLE (“Pneumocystis pneumonia disease”)) OR

(TITLE ("Coronavirus-2") AND TITLE ("Pneumocystis pneumonia coinfection")) OR (TITLE ("Coronavirus-2") AND TITLE ("Pneumocystis coinfection")) OR (TITLE ("Coronavirus-2") AND TITLE ("Pneumocystis pneumonia co-infection")) OR (TITLE ("Coronavirus-2") AND TITLE ("Pneumocystis co-infection")) OR (TITLE ("Covid-19") AND TITLE ("Fungal infection")) OR (TITLE ("Covid-19") AND TITLE ("Fungal coinfection")) OR (TITLE ("Covid-19") AND TITLE ("Fungal co-infection")) OR (TITLE ("Covid-19") AND TITLE ("Pneumocystis pneumonia infection")) OR (TITLE ("Covid-19") AND TITLE ("Pneumocystis pneumonia coinfection")) OR (TITLE ("Covid-19") AND TITLE ("Pneumocystis pneumonia co-infection")) AND PUBYEAR>2019 AND PUBYEAR<2022