## Search strategy - COVID risk for people with Sickle cell disease

**Sources searched**  
Cochrane Library (0)  
EMBASE (20)  
Europe PubMed Central (5)  
Google Scholar (0)  
MEDLINE (37)

**Date range used** (5 years, 10 years): no restrictions   
**Limits used** (gender, article/study type, etc.): none   
**Search terms and notes** (full search strategy for database searches below):

Relevant natural language and controlled vocabulary terms were selected and combined. Thesaurus terms were adapted for different databases. Medline and Embase searched on Ovid. Results were reviewed for relevance and de-duplicated in EndNote. Full search strategy below.

Preprints search in Europe PMC:

(("COVID-19" or COVID19 or 2019nCoV or "Corona Virus" or Coronavirus or "CoV 2" or CoV2 or COVID or nCoV or SARS2 or SARSCoV or "SARS-CoV") AND ("Sickle Cell" AND (anemia or anaemia or disorder\* or disease or illness)) AND (risk or probability or likelihood or prevalence or incidence)) AND (SRC:PPR)

|  | **Source** | **Criteria** | **Results** |
| --- | --- | --- | --- |
| 1. | medline | exp coronavirus/ | 65995 |
| 2. | medline | exp Coronavirus Infections/ | 79552 |
| 3. | medline | ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).ti,ab,kw,kf. | 3211 |
| 4. | medline | (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).ti,ab,kw,kf. | 78269 |
| 5. | medline | ("2019-nCoV\*" or 2019nCoV\* or "19-nCoV\*" or 19nCoV\* or nCoV2019\* or "nCoV-2019\*" or nCoV19\* or "nCoV-19\*" or "COVID-19\*" or COVID19\* or "COVID-2019\*" or COVID2019\* or "HCoV-19\*" or HCoV19\* or "HCoV-2019\*" or HCoV2019\* or "2019 novel\*" or Ncov\* or "n-cov" or "SARS-CoV-2\*" or "SARSCoV-2\*" or "SARSCoV2\*" or "SARS-CoV2\*" or SARSCov19\* or "SARS-Cov19\*" or "SARSCov-19\*" or "SARS-Cov-19\*" or SARSCov2019\* or "SARS-Cov2019\*" or "SARSCov-2019\*" or "SARS-Cov-2019\*" or SARS2\* or "SARS-2\*" or SARScoronavirus2\* or "SARS-coronavirus-2\*" or "SARScoronavirus 2\*" or "SARS coronavirus2\*" or SARScoronovirus2\* or "SARS-coronovirus-2\*" or "SARScoronovirus 2\*" or "SARS coronovirus2\*" or covid).ti,ab,kw,kf. | 116487 |
| 6. | medline | (respiratory\* adj2 (symptom\* or disease\* or illness\* or condition\*) adj5 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 334 |
| 7. | medline | (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 99 |
| 8. | medline | (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 603 |
| 9. | medline | ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 379 |
| 10. | medline | "severe acute respiratory syndrome\*".ti,ab,kw,kf. | 19298 |
| 11. | medline | or/1-10 | 144599 |
| 12. | medline | limit 11 to yr="2019 -Current" | 125180 |
| 13. | medline | Anemia, Sickle Cell/ | 21523 |
| 14. | medline | (HbS adj Disease).ti,ab. | 14 |
| 15. | medline | ("H?emoglobin S" adj Disease).ti,ab. | 22 |
| 16. | medline | ("Sickle Cell" adj (anemia or anaemia or disorder\* or disease or illness)).ti,ab,kw,kf. | 21591 |
| 17. | medline | 13 or 14 or 15 or 16 | 27681 |
| 18. | medline | Sickle Cell Trait/ | 2297 |
| 19. | medline | ("Sickle Cell" adj Trait\*).ti,ab,kw,kf. | 2177 |
| 20. | medline | 18 or 19 | 3275 |
| 21. | medline | 17 or 20 | 28916 |
| 22. | medline | 12 and 21 | 90 |
| 23. | medline | (risk or probability or likelihood or prevalence or incidence).mp. | 3940935 |
| 24. | medline | 22 and 23 | 37 |
| 1. | embase | exp Coronavirinae/ | 23599 |
| 2. | embase | exp Coronavirus infection/ | 24615 |
| 3. | embase | ("coronavirus disease 2019" or "severe acute respiratory syndrome coronavirus 2").sh,dj. | 103416 |
| 4. | embase | ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).ti,ab,kw. | 2565 |
| 5. | embase | (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).ti,ab,kw. | 77622 |
| 6. | embase | ("2019-nCoV\*" or 2019nCoV\* or "19-nCoV\*" or 19nCoV\* or nCoV2019\* or "nCoV-2019\*" or nCoV19\* or "nCoV-19\*" or "COVID-19\*" or COVID19\* or "COVID-2019\*" or COVID2019\* or "HCoV-19\*" or HCoV19\* or "HCoV-2019\*" or HCoV2019\* or "2019 novel\*" or Ncov\* or "n-cov" or "SARS-CoV-2\*" or "SARSCoV-2\*" or "SARSCoV2\*" or "SARS-CoV2\*" or SARSCov19\* or "SARS-Cov19\*" or "SARSCov-19\*" or "SARS-Cov-19\*" or SARSCov2019\* or "SARS-Cov2019\*" or "SARSCov-2019\*" or "SARS-Cov-2019\*" or SARS2\* or "SARS-2\*" or SARScoronavirus2\* or "SARS-coronavirus-2\*" or "SARScoronavirus 2\*" or "SARS coronavirus2\*" or SARScoronovirus2\* or "SARS-coronovirus-2\*" or "SARScoronovirus 2\*" or "SARS coronovirus2\*" or covid).ti,ab,kw. | 113247 |
| 7. | embase | (respiratory\* adj2 (symptom\* or disease\* or illness\* or condition\*) adj5 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 404 |
| 8. | embase | (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 108 |
| 9. | embase | (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 652 |
| 10. | embase | ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 175 |
| 11. | embase | "severe acute respiratory syndrome\*".ti,ab,kw. | 18892 |
| 12. | embase | or/1-11 | 150663 |
| 13. | embase | limit 12 to yr="2019 -Current" | 127231 |
| 14. | embase | \*sickle cell anemia/ | 24501 |
| 15. | embase | (HbS adj Disease).ti,ab. | 22 |
| 16. | embase | ("H?emoglobin S" adj Disease).ti,ab. | 25 |
| 17. | embase | ("Sickle Cell" adj (anemia or anaemia or disorder\* or disease or illness)).ti,ab,kw. | 31448 |
| 18. | embase | 14 or 15 or 16 or 17 | 34733 |
| 19. | embase | \*sickle cell trait/ | 1500 |
| 20. | embase | ("Sickle Cell" adj Trait\*).ti,ab,kw. | 2778 |
| 21. | embase | 19 or 20 | 3082 |
| 22. | embase | 18 or 21 | 36257 |
| 23. | embase | 13 and 22 | 140 |
| 24. | embase | (risk or probability or likelihood or prevalence or incidence).ti,ab. | 4870228 |
| 25. | embase | 23 and 24 | 53 |