# Evidence Search Service Results of your search request

## COVID-related surgical mortality

**ID of request:** 23201  
**Date of request:** 13th May, 2020  
**Date of completion:** 27th May, 2020

If you would like to request any articles or any further help, please contact:  Tom Roper at [tom.roper@nhs.net](mailto:tom.roper@nhs.net)

Please acknowledge this work in any resulting paper or presentation as: Evidence search: COVID-related surgical mortality. Tom Roper. (27th May, 2020). BRIGHTON, UK: Brighton and Sussex Library and Knowledge Service.

**Sources searched**  
EMBASE (6)  
MEDLINE (9)  
medRxiv (0)

**Date range used** (5 years, 10 years): 2019 onwards   
**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. Final result sets were de-duplicated and reviewed for relevance by the searcher, irrelevant results being discarded.

To explain the way the search works, using the MEDLINE strategy, lines 1-11 find papers on  COVID-19, lines 12-14 hip fractures and lines 16-21 surgical mortality. These are then combined to find all those papers that either discuss hip fracture and COVID-19 or all papers that discuss hip fracture and surgical mortality. Requiring all three concepts to be present proved over-restrictive.

As well as MEDLINE and EMBASE, medRxiv, a pre-print repository, was also searched, but yielded no further papers.

For more information about the resources please go to: <https://www.bsuh.nhs.uk/library/>.

## B. Search History

|  | **Source** | **Criteria** | **Results** |
| --- | --- | --- | --- |
| 1. | MEDLINE | exp coronavirus/ | 14646 |
| 2. | MEDLINE | exp Coronavirus Infections/ | 13506 |
| 3. | MEDLINE | ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).ti,ab,kw,kf. | 1093 |
| 4. | MEDLINE | (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).ti,ab,kw,kf. | 21594 |
| 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. | 16690 |
| 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. | 260 |
| 7. | MEDLINE | (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 61 |
| 8. | MEDLINE | (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 411 |
| 9. | MEDLINE | ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw,kf. | 236 |
| 10. | MEDLINE | "severe acute respiratory syndrome\*".ti,ab,kw,kf. | 6411 |
| 11. | MEDLINE | 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 | 38607 |
| 12. | MEDLINE | exp Hip Fractures/ | 23748 |
| 13. | MEDLINE | ((hip or femur\* or femor\*) adj3 fracture\*).ti,ab. | 37937 |
| 14. | MEDLINE | 12 or 13 | 44430 |
| 15. | MEDLINE | 11 and 14 | 10 |
| 16. | MEDLINE | exp Mortality/ | 378693 |
| 17. | MEDLINE | exp Postoperative Complications/ | 542270 |
| 18. | MEDLINE | 16 and 17 | 25711 |
| 19. | MEDLINE | ((surgery or surgical) adj3 (mortality or death\*) OR ((postoperative or post-operative) adj3 (mortality or death)).ti,ab. | 18087 |
| 20. | MEDLINE | 18 or 19 | 41858 |
| 21. | MEDLINE | 11 and 20 | 3 |
| 22. | MEDLINE | 15 or 21 | 13 |
| 23. | MEDLINE | 15 or 21 | 13 |
| 24. | MEDLINE | limit 23 to yr="2019 -Current" | 9 |
| 1. | EMBASE | exp Coronavirinae/ | 14195 |
| 2. | EMBASE | exp Coronavirus infection/ | 13494 |
| 3. | EMBASE | ("coronavirus disease 2019" or "severe acute respiratory syndrome coronavirus 2").sh,dj. | 7809 |
| 4. | EMBASE | ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).ti,ab,kw. | 764 |
| 5. | EMBASE | (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).ti,ab,kw. | 20773 |
| 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. | 11378 |
| 7. | EMBASE | (respiratory\* adj2 (symptom\* or disease\* or illness\* or condition\*) adj5 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 311 |
| 8. | EMBASE | (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 61 |
| 9. | EMBASE | (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 421 |
| 10. | EMBASE | ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti,ab,kw. | 106 |
| 11. | EMBASE | "severe acute respiratory syndrome\*".ti,ab,kw. | 6192 |
| 12. | EMBASE | or/1-11 | 37695 |
| 13. | EMBASE | exp hip fracture/ | 37474 |
| 14. | EMBASE | ((hip or femur\* or femor\*) adj3 fracture\*).ti,ab. | 48366 |
| 15. | EMBASE | 13 or 14 | 61035 |
| 16. | EMBASE | 12 and 15 | 8 |
| 17. | EMBASE | surgical mortality/ | 53640 |
| 18. | EMBASE | ((postoperative or post-operative) adj3 (mortality or death)).ti,ab. | 26450 |
| 19. | EMBASE | ((surgery or surgical) adj3 (mortality or death\*)).ti,ab. | 23272 |
| 20. | EMBASE | 17 or 18 or 19 | 87137 |
| 21. | EMBASE | 12 and 20 | 6 |
| 22. | EMBASE | 16 or 21 | 14 |
| 23. | EMBASE | limit 22 to yr="2019 -Current" | 6 |

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