# Evidence Search Service Results of your search request

## Epidemiology of in-patient exposure to COVID-19

**ID of request:** 27560  
**Date of request:** 9th February, 2021  
**Date of completion:** 22nd February, 2021

If you would like to request any articles or any further help, please contact:  Lucy Sinclair at [lucy.sinclair1@nhs.net](mailto:lucy.sinclair1@nhs.net)

Please acknowledge this work in any resulting paper or presentation as: Evidence search: Epidemiology of in-patient exposure to COVID-19. Lucy Sinclair. (22nd February, 2021). BRIGHTON, UK: Brighton and Sussex Library and Knowledge Service.

**Sources searched**  
ClinicalKey (1)  
Cochrane Database of Systematic Reviews (0)  
Google (Advanced) (1)  
NICE Evidence Search (0)  
TRIP Database (1)

**Date range used** (5 years, 10 years): 2019-2021   
**Limits used** (gender, article/study type, etc.): Date   
**Search terms and notes** (full search strategy for database searches below):

Search terms used in Nice Evidence Search, Cochrane Database of Systematic Reviews, TRIP Database, ClinicalKey & Google Advanced: Epidemiology of in patient exposure to COVID-19, Epidemiology of in-patient exposure to COVID-19 hospital patient COVID-19 infection control, hospital acquired COVID-19, hospital acquired coronavirus infection

I used the NICE (National Institute for Health & Care Excellence) COVID-19 search strategy for Medline (Ovid Platform) but majored the MESH terms and adapted the fields from .ti,ab,kw,kf. to ti. The means that the keyword search terms used in the COVID-19 strategy only returned articles with the terms in the title field. This was used to focus the search.

I tried a few different search strategies that brought back between 500-1000+ unsifted results. I have rigorously screen the results in order to provide you with a management set of documents. If you would like to see more, please let me know.

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

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15. [Nosocomial COVID-19 infection and severe covid-19 pneumonia in patients hospitalized for alcoholic liver disease: A case report](#Research851558)
16. [Nosocomial outbreak of the Middle East Respiratory Syndrome coronavirus: A phylogenetic, epidemiological, clinical and infection control analysis](#Research851542)
17. [Nosocomial transmission of COVID-19: a retrospective study of 66 hospital-acquired cases in a London teaching hospital](#Research851554)
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## A. National and International Guidance

#### Government of Canada

**Infection prevention and control for COVID-19: Interim guidance for acute healthcare settings** (2021)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=164a1ba66cbdee3b8083e375b41ec23d)

The Public Health Agency of Canada (PHAC) develops evidence-informed infection prevention and control (IPC) guidance to complement provincial and territorial public health efforts in monitoring, preventing, and controlling healthcare-associated infections.

## B. Original Research

1. **Does nosocomial COVID-19 result in increased 30-day mortality? A multi-centre observational study to identify risk factors for worse outcomes in patients with COVID-19**  
   Khan K. S. The Journal of hospital infection 2021;107:91-94.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=47187e6f9eaeb030506d4399c2fa5365)

1. **Hospital transmission rates of the SARS-CoV 2 disease amongst orthopaedic in-patients in a secondary care centre: A quantitative review**  
   Holmes N. Journal of Clinical Orthopaedics and Trauma 2021;16:43-48.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=77c6771889bc29cf90ecd77effe135ab)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=440275f7be752ae9df5fe0e350b5e050)

1. **Nosocomial SARS-CoV-2 infection in urology departments: Results of a prospective multicentric study**  
   Sanchez M. D. International Journal of Urology 2021;28:62-67.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=0561b0ec8aafeba8e3f4eb9883af2cfe)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=5e67e257569356c80521c2527f7b7e18)

1. **A new tool to prevent the spread of hospital-acquired infections in the era of COVID-19**  
   J Rewley et al Journal of Hospital Infection 2020;106(3):562-569.

This year, COVID-19 added an additional layer of risk to patients who entered the U.S. healthcare system. With the pandemic still surging nationwide, many people are avoiding hospitals, especially emergency rooms. The general public is now acutely aware of the risks associated with even brief exposure to individuals infected with the SARS-CoV-2 virus. In a recent study, researchers from the National Human Genome Research Institute (NHGRI), Oxford University and other National Institutes of Health centers developed and tested a new method to predict hospital-acquired infections involving five other important pathogens.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=db5aea6223ffdca87c203f70296213eb)

1. **A passive monitoring tool using hospital administrative data enables earlier specific detection of healthcare-acquired infections**  
   Prabarna Ganguly Journal of Hospital Infection 2020;106 (3):562-569.

Healthcare-associated infections impose a significant burden on the healthcare system. Current methods for detecting these infections are constrained by combinations of high cost, long processing times and imperfect accuracy, reducing their effectiveness.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=ae907c16613c446166936465e57da314)

1. **Acute pancreatitis and nosocomial COVID-19: Cause specific host responses may determine lung injury**  
   Elhence A. Pancreatology 2020;20:1258-1261.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=18888539662616699e90c6e8d4d355a6)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=6630217d16b3878a5b224e5f848ab551)

1. **Analysis of the risk factors for nosocomial bacterial infection in patients with COVID-19 in a tertiary hospital**  
   Cheng K. Risk Management and Healthcare Policy 2020;13:2593-2599.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=bd7e4078e6b8488501e1d0d1e082c0a0)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=b41dae732601d0f053664fa400c92cc2)

1. **Antimicrobial mouthwashes (gargling) and nasal sprays administered to patients with suspected or confirmed COVID-19 infection to improve patient outcomes and to protect healthcare workers treating them**  
   Burton M. J. The Cochrane database of systematic reviews 2020;9:CD013627.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=8cfa0038076b15d15ba666071fad2893)

1. **Clinical impact of molecular point-of-care testing for suspected COVID-19 in hospital (COV-19POC): a prospective, interventional, non-randomised, controlled study**  
   Brendish N. J. The Lancet Respiratory Medicine 2020;8:1192-1200.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=7b9eae2736f60bc9106c5a77691ae353)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=da660b7b2e03ec1eafd228b44237dca8)

1. **Epidemiological and clinical features of 200 hospitalized patients with corona virus disease 2019 outside Wuhan, China: A descriptive study**  
   Yang L. Journal of Clinical Virology 2020;129:104475.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=88e4eeadfbeb06c246a1f1a8021676c7)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=645ae7de80f6fcc77bfd182300dfd35d)

1. **Epidemiology, outcomes and associated factors of COVID-19 RT-PCR confirmed cases in the San Pedro Sula Metropolitan Area, Honduras**  
   Zuniga-Moya J. C. Clinical infectious diseases : an official publication of the Infectious Diseases Society of America 2020;:No page numbers.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=a7e56d1a02cea5f4e5f992d89e68541a)

1. **Gynecological prevention and control model based on ward rearrangement and zoning management in pandemic period of COVID-19**  
   Liu Jin Panminerva medica 2020;:No page numbers.

By 25th April 2020, the outbreak of COVID-19 caused 2719897 confirmed cases and 187705 deaths globally, remarkably more than Severe Acute Respiratory Syndrome (SARS) (8273 cases, 775 deaths) and Middle East Respiratory Syndrome (MERS) (1139 cases, 431 deaths) in 2003 and 2013, respectively. Gynecology is a specialty department with a large number of critical and severe patients. Consequently, it is of preeminent importance to formulate the in-patient management process. Rearranging the gynecological wards and managing ward partition, as well as the medical protection measures in specialized areas, are suitable for the current prevention and control for COVID-19 pandemic and the therapeutic requirements of patients. To effectively minimize nosocomial infections during the COVID- 19 pandemic period, our department implemented a novel prevention strategy based on the ward redesign and partition management. With this model, our department effectively protected the safety and health of patients and medical care staff from cross and nosocomial infection in the hospital. Now we would like to share the experience and strategies we implemented as following.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=0ca3b650e8850db4b000f4b7c374baa0)

1. **High mortality among hospital-acquired COVID-19 infection in patients with cancer: A multicentre observational cohort study**  
   Elkrief A. European Journal of Cancer 2020;139:181-187.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=26085257890325fb021624e474ce7849)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=c6533ee20582dd0df4d5f098c67d052a)

1. **Incidence and outcomes of healthcare-associated COVID-19 infections: significance of delayed diagnosis and correlation with staff absence**  
   Khonyongwa K. The Journal of hospital infection 2020;106:663-672.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=2ad330f9cbbc17b0daa7c2626853c55f)

1. **Nosocomial COVID-19 infection and severe covid-19 pneumonia in patients hospitalized for alcoholic liver disease: A case report**  
   Wisniewska H. American Journal of Case Reports 2020;21:1-8.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=3af8a06f801ac64d93e4febe01b2238a)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=d85527b3e3940479142546ecb75d1d5c)

1. **Nosocomial outbreak of the Middle East Respiratory Syndrome coronavirus: A phylogenetic, epidemiological, clinical and infection control analysis**  
   Barry M. Travel Medicine and Infectious Disease 2020;37:101807.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=bf4f6df9698cd6b79bbc0fbefd98b877)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=09c07e9d024cc8f238a7ab899e611862)

1. **Nosocomial transmission of COVID-19: a retrospective study of 66 hospital-acquired cases in a London teaching hospital**  
   Rickman H. M. Clinical infectious diseases : an official publication of the Infectious Diseases Society of America 2020;:No page numbers.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=b7f267a2e9319fda7ea6b64159ffdba6)

1. **Predictors of hospital-acquired bacterial and fungal superinfections in COVID-19: a prospective observational study**  
   Falcone M. The Journal of antimicrobial chemotherapy 2020;:No page numbers.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=a1cf447c4989bdb11a9fcd8c12c55261)

1. **Recommendations for control and prevention of infections for pediatric orthopedics during the epidemic period of COVID-19**  
   Wu C. World Journal of Pediatric Surgery 2020;3:e000124.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=5880ae4902b0a603cb853c06a9196ec1)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=6223ca800ea014c413903e3ed2c31497)

1. **Reducing nosocomial transmission of COVID-19: Implementation of a COVID-19 triage system**  
   Wake R. M. Clinical Medicine, Journal of the Royal College of Physicians of London 2020;20:E141-E145.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=634160634a72144891c9f50544f53780)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=8913f2efa8fa2be0accd8be2b76549aa)

1. **Respiratory surveillance wards as a strategy to reduce nosocomial transmission of COVID-19 through early detection: The experience of a tertiary-care hospital in Singapore**  
   Wee L. E. Infection Control and Hospital Epidemiology 2020;41:820-825.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=20f0d78b342aa6a79f436bd6208c033c)

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=946811001229a6aa249ccb701b44862b)

1. **Whole-genome sequencing to track SARS-CoV-2 transmission in nosocomial outbreaks**  
   Lucey M. Clinical infectious diseases : an official publication of the Infectious Diseases Society of America 2020;:No page numbers.

[Available online at this link](https://www.knowledgeshare.nhs.uk/index.php?PageID=link_resolver&link=8f5e9b9c1631be7c2a92de64de8b4c03)

### Opening Internet Links

The links to internet sites in this document are 'live' and can be opened by holding down the CTRL key on your keyboard while clicking on the web address with your mouse

### Full text papers

Links are given to full text resources where available. For some of the papers, you will need an **NHS OpenAthens Account**. If you do not have an account you can [register online](https://openathens.nice.org.uk/).

You can then access the papers by simply entering your username and password. If you do not have easy access to the internet to gain access, please let us know and we can download the papers for you.

### Guidance on searching within online documents

Links are provided to the full text of each document. Relevant extracts have been copied and pasted into these results. Rather than browse through lengthy documents, you can search for specific words as follows:

**Portable Document Format / pdf / Adobe**  
Click on the Search button (illustrated with binoculars). This will open up a search window. Type in the term you need to find and links to all of the references to that term within the document will be displayed in the window. You can jump to each reference by clicking it.

**Word documents**  
Select Edit from the menu, the Find and type in your term in the search box which is presented. The search function will locate the first use of the term in the document. By pressing 'next' you will jump to further references.

## C. Search History

|  | **Source** | **Criteria** | **Results** |
| --- | --- | --- | --- |
| 1. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | exp \*coronavirus/ | 34158 |
| 2. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | exp \*Coronavirus Infections/ | 64479 |
| 3. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).ti. | 423 |
| 4. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).ti. | 32764 |
| 5. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | ("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. | 88380 |
| 6. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (respiratory\* adj2 (symptom\* or disease\* or illness\* or condition\*) adj5 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 109 |
| 7. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 12 |
| 8. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 225 |
| 9. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 37 |
| 10. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | "severe acute respiratory syndrome\*".ti. | 3064 |
| 11. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | or/1-10 | 115278 |
| 12. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | \*Hospitals/ or \*Hospitalization/ | 91405 |
| 13. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (hospital or hospitals or hospitalization or hospitalisation).ti,ab. | 1267650 |
| 14. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | or/12-13 | 1294313 |
| 15. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | \*Inpatients/ | 11376 |
| 16. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (in patient\*1 or in-patient\*1 or inpatient\*1).ti,ab. | 1877823 |
| 17. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | or/15-16 | 1882224 |
| 18. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | 14 and 17 | 256595 |
| 19. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | Cross infection/ or Infection Control/ | 75278 |
| 20. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | nosocomial.ti,ab. | 31067 |
| 21. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | ((infect\* or prevent\*) adj2 control).ti,ab. | 74217 |
| 22. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | transmiss\*.ti,ab. | 396603 |
| 23. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (hospital acquired-infection\* or hospital acquired infection\* or healthcare-associated infection\* or healthcare acquired infection\*).ti,ab. | 7455 |
| 24. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (infect\* adj3 cluster\*).ti,ab. | 1578 |
| 25. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | or/19-24 | 535009 |
| 26. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (secondary transmiss\* or secondary attack rate).ti,ab. | 746 |
| 27. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | exp Mortality/ | 394115 |
| 28. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (mortality or death\* or fatal\*).ti,ab. | 1577085 |
| 29. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | "Length of Stay"/ | 91697 |
| 30. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | (length of stay or LOS).ti,ab. | 98212 |
| 31. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | or/26-30 | 1880119 |
| 32. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | 11 and 18 and 25 and 31 | 126 |
| 33. | Ovid MEDLINE(R) ALL <1946 to February 19, 2021> | limit 32 to yr="2019 -Current" | 110 |
| 1. | Embase <1974 to 2021 Week 07> | exp \*Coronavirinae/ | 10679 |
| 2. | Embase <1974 to 2021 Week 07> | exp \*Coronavirus infection/ | 10481 |
| 3. | Embase <1974 to 2021 Week 07> | ((corona\* or corono\*) adj1 (virus\* or viral\* or virinae\*)).ti. | 485 |
| 4. | Embase <1974 to 2021 Week 07> | (coronavirus\* or coronovirus\* or coronavirinae\* or CoV).ti. | 31963 |
| 5. | Embase <1974 to 2021 Week 07> | ("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. | 84919 |
| 6. | Embase <1974 to 2021 Week 07> | (respiratory\* adj2 (symptom\* or disease\* or illness\* or condition\*) adj5 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 146 |
| 7. | Embase <1974 to 2021 Week 07> | (("seafood market\*" or "food market\*") adj10 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 9 |
| 8. | Embase <1974 to 2021 Week 07> | (pneumonia\* adj3 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 263 |
| 9. | Embase <1974 to 2021 Week 07> | ((outbreak\* or wildlife\* or pandemic\* or epidemic\*) adj1 (Wuhan\* or Hubei\* or China\* or Chinese\* or Huanan\*)).ti. | 38 |
| 10. | Embase <1974 to 2021 Week 07> | "severe acute respiratory syndrome\*".ti. | 3259 |
| 11. | Embase <1974 to 2021 Week 07> | or/1-10 | 107775 |
| 12. | Embase <1974 to 2021 Week 07> | \*hospital/ or \*hospitalization/ | 110567 |
| 13. | Embase <1974 to 2021 Week 07> | (hospital or hospitals or hospitalization or hospitalisation).ti,ab. | 1950534 |
| 14. | Embase <1974 to 2021 Week 07> | or/12-13 | 1982358 |
| 15. | Embase <1974 to 2021 Week 07> | \*hospital patient/ | 29567 |
| 16. | Embase <1974 to 2021 Week 07> | (in patient\*1 or in-patient\*1 or inpatient\*1).ti,ab. | 2920142 |
| 17. | Embase <1974 to 2021 Week 07> | or/15-16 | 2927092 |
| 18. | Embase <1974 to 2021 Week 07> | 14 and 17 | 468731 |
| 19. | Embase <1974 to 2021 Week 07> | infection control/ or cross infection/ or virus transmission/ or hospital infection/ | 205609 |
| 20. | Embase <1974 to 2021 Week 07> | nosocomial.ti,ab. | 42021 |
| 21. | Embase <1974 to 2021 Week 07> | ((infect\* or prevent\*) adj2 control).ti,ab. | 93188 |
| 22. | Embase <1974 to 2021 Week 07> | transmiss\*.ti,ab. | 442219 |
| 23. | Embase <1974 to 2021 Week 07> | (hospital acquired-infection\* or hospital acquired infection\* or healthcare-associated infection\* or healthcare acquired infection\*).ti,ab. | 11251 |
| 24. | Embase <1974 to 2021 Week 07> | (infect\* adj3 cluster\*).ti,ab. | 1963 |
| 25. | Embase <1974 to 2021 Week 07> | or/19-24 | 676765 |
| 26. | Embase <1974 to 2021 Week 07> | (secondary transmiss\* or secondary attack rate).ti,ab. | 842 |
| 27. | Embase <1974 to 2021 Week 07> | exp mortality/ | 1139517 |
| 28. | Embase <1974 to 2021 Week 07> | (mortality or death\* or fatal\*).ti,ab. | 2263846 |
| 29. | Embase <1974 to 2021 Week 07> | "length of stay"/ | 202733 |
| 30. | Embase <1974 to 2021 Week 07> | (length of stay or LOS).ti,ab. | 146673 |
| 31. | Embase <1974 to 2021 Week 07> | or/26-30 | 2709461 |
| 32. | Embase <1974 to 2021 Week 07> | 11 and 18 and 25 and 31 | 162 |
| 33. | Embase <1974 to 2021 Week 07> | limit 32 to yr="2019 -Current" | 144 |

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