MEDLINE

1. cystic fibrosis.mp. or exp Cystic Fibrosis/

2. Infection Control/ or Cross Infection/ or infection prevention.mp.

3. Cross Infection/ or nosocomial.mp.

4. environment\*.mp.

5. source.mp. or Bacteria/

6. 2 or 3 or 4 or 5

7. pseudomonas aeruginosa.mp. or exp Pseudomonas aeruginosa/

8. PSEUDOMONAS/ or pseudomonas.mp.

9. pseudomonas aeruginosa.tw.

10. Pseudomonas Infections/ or P aeruginosa.mp.

11. burkholderia cepacia.mp. or Burkholderia cepacia/

12. Nontuberculous Mycobacteria/ or NTM.mp.

13. Mycobacterium Infections, Nontuberculous/ or mycobacterium abcessus.mp.

14. mixed infection.mp. or Coinfection/

15. gram negative bacteria.mp. or Gram-Negative Bacteria/

16. Achromobacter.mp. or ACHROMOBACTER/

17. STENOTROPHOMONAS MALTOPHILIA/ or STENOTROPHOMONAS/ or Stenotrophomonas.mp.

18. 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17

19. 1 and 6 and 18

EMBASE

1. cystic fibrosis.mp. or exp cystic fibrosis/

2. infection prevention.mp. or exp infection prevention/

3. cross infection.mp. or cross infection/

4. infection/ or Pseudomonas infection/ or infection prevention/ or infection risk/ or respiratory tract infection/ or Burkholderia cepacia infection/ or lung infection/ or cross infection/ or Gram negative infection/ or healthcare associated infection/ or infection control/ or device infection/ or hospital infection/ or mixed infection/

5. hospital infection/ or nosociomal.mp.

6. pseudomonas aeruginosa.mp. or Pseudomonas aeruginosa/

7. P aeruginosa.mp. or Pseudomonas aeruginosa/

8. mycobacterium abscessus.mp. or Mycobacterium abscessus/

9. non-tuberculous mycobacteria.mp. or atypical Mycobacterium/

10. Achromobacter.mp. or Achromobacter/

11. Stenotrophomonas maltophilia/ or Stenotrophomonas/ or Stenotrophomonas.mp.

12. 2 or 3

13. 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11

14. 1 and 12 and 13

CINAHL

#S3 (MH ( infection control or infection prevention ) OR TX pseudomonas aeruginosa OR TX burkholderia cepacia OR TX non tuberculous mycobacterium OR TX mycobacterium abscessus OR TX ntm OR TX mixed infection OR TX gram negative bacteria OR TX Achromobacter OR TX Stenotrophomonas) AND (S1 AND S2)

#S2 MH ( infection control or infection prevention ) OR TX pseudomonas aeruginosa OR TX burkholderia cepacia OR TX non tuberculous mycobacterium OR TX mycobacterium abscessus OR TX ntm OR TX mixed infection OR TX gram negative bacteria OR TX Achromobacter OR TX Stenotrophomonas

#1 MH cystic fibrosis

Cochrane library

#1 cystic fibrosis

#2 infection prevention

#3 infection control

#4 cross infection

#5 environment\*

#6 source

#7 nosocomial

#8 #2 or #3 or #4 or #5 or #6 or #7

#9 pseudomonas aeruginosa

#10 burkholderia cepacia

#11 mycobacterium abscessus

#12 NTM

#13 nontuberculous mycobacterium

#14 #9 or #10 or #11 or #12 or #13

#15 #1 and #8 and #14

PubMed

cystic fibrosis AND (infection prevention OR infection control OR cross-infection OR nosocomial OR environment OR source) AND (pseudomonas OR pseudomonas aeruginosa OR burkholderia cepacia OR NTM OR mycobacterium abscessus OR non-tuberculous mycobacteria OR mixed infection OR gram negative bacteria OR Achromobacter OR Stenotrophomonas)

RESULTS

|  |  |  |
| --- | --- | --- |
| Database searched | Date of search | Number of hits |
| Medline | 13/09/18 | 1469 |
| Embase | 9/09/18 | 590 |
| Cinahl | 9/09/18 | 630 |
| Pubmed | 12/09/18 | 1438 |
| Cochrane Library | 13/09/18 | 758 |
| Total |  | **4885** |
| Total after duplicates removed |  | **3430**  **3423 (**a further 7 were removed by Covidence) |
| Database searched | Date of search | Number of hits |
| Medline | 12/07/2023 | 544 (590 pre dedupe) |
| Embase | 12/07/2023 | 185 (227 pre dedupe) |
| Cinahl | 12/07/2023 | 268 (296 pre dedupe) |
| Pubmed | 12/07/2023 | 27 (167 pre dedupe) |
| Cochrane Library | 12/07/2023 | Reviews 51 (55 pre dedupe)  Trials 213 (239 pre dedupe) |
| Total |  | **1574** |
| Total after duplicates removed |  | **1288**  **1266 (**a further 22 were removed by hand)  **1250** (a further 16 were removed by Covidence)  **1248** (a further two removed by hand) |

PRISMA FOR UPDATE 2023 / 2018

Excluded with reason

Excluded on title & abstract

Duplicates removed

N = 4671

(N = 1248 N = 3423)

Screened on full text

Included

Database searches

N = 1288 N = 4885