

Identifying and removing duplicate records from systematic review searches

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APPENDIX

Search strategies

Ovid multifile search

1. exp Health Facility Closure/
2. (hospital* adj3 (close* or closur* or closing)).tw.
3. (ward* adj3 (close* or closur* or closing)).tw.
4. (unit* adj3 (close* or closur* or closing)).tw.
5. (wing* adj3 (close* or closur* or closing)).tw.
6. (partial* adj2 (close* or closur* or closing)).tw.
7. (bay* adj3 (close* or closur* or closing)).tw.
8. (department* adj3 (close* or closur* or closing)).tw.
9. cohorting.tw.
10. or/1-9
11. exp Infection Control/
12. exp Communicable Disease Control/
13. (outbreak adj3 control*).tw.
14. (infection adj3 control*).tw.
15. exp Disease Outbreaks/
16. outbreak.tw.
17. exp Disease Transmission, Infectious/
18. (cross adj2 transmi*).tw.
19. (pathogen* adj2 spread*).tw.
20. (pathogen* adj3 colonis*).tw.
21. (pathogen* adj3 coloniz*).tw.
22. (microb* adj3 colonis*).tw.
23. (microb* adj3 coloniz*).tw.
24. (mycobacteri* adj3 colonis*).tw.
25. (mycobacteri* adj3 coloniz*).tw.
26. exp Cross Infection/
27. exp Viruses/
28. Virus Diseases/
29. rhinovirus.tw.
30. exp gram-negative bacteria/
31. exp Influenza, Human/ or (influenza or flu).tw.
32. exp Methicillin-Resistant Staphylococcus aureus/ or exp Staphylococcal Infections/ or (Staphylococcus aureus or mrsa or mssa).tw.

33. (exp Vancomycin Resistance/ and exp Enterococcus/) or (Vancomycin resistant Enterococci or vre).tw.
34. (cre or Carbapenem resistant enterobacteri*).tw.
35. (cro or Carbapenem Resistant Organism*).tw.
36. (cpo or Carbapenemase Producing Organism*).tw.
37. exp Enterobacteriaceae Infections/
38. (ndm-1 or New Delhi metallo-beta-lactamase-1).tw.
39. (esbl or Extended Spectrum Beta Lactamase).tw.
40. Drug Resistance, Microbial/ or exp Drug Resistance, Bacterial/
41. (anti microbial resistan* or antimicrobial resistan* or amr).tw.
42. exp Tuberculosis/ or (tb or tuberculosis).tw.
43. exp Nontuberculous Mycobacteria/ or exp Mycobacterium Infections/
44. exp Clostridium difficile/ or (c difficile or cdf or cdi or Clostridium difficile Associated Disease or cdad or bacillus difficilis).tw.
45. exp Norovirus/ or (norovirus or Norwalk virus).tw.
46. exp Caliciviridae Infections/ or calicivirus.tw.
47. exp Rotavirus Infections/ or rotavirus.tw.
48. exp Klebsiella pneumoniae/ or kpc.tw.
49. exp Coronavirus Infections/ or (Middle East respiratory syndrome or MERS-CoV or EMC 2012).tw.
50. (((anti-biotic or antibiotic) adj2 organism*) or (anti-resistant or antiresistant)).tw.
51. ((healthcare adj2 (associated or acquired)) or hospital acquired infection* or hai).tw.
52. (nosocomial or (nosocomial adj2 pathogen*)).tw.
53. exp Communicable Diseases/
54. exp Diarrhea/ or ((hospital adj3 diarrhea*) or (diarrhea* adj2 ill*)).tw.
55. exp Measles/ or (Subacute Measles Encephalitis or sme).tw.
56. oxa 48.tw.
57. exp Common Cold/
58. common cold.tw.
59. exp Adenoviridae/ or exp Mastadenovirus/ or exp Adenoviruses, Human/ or adenovir*.tw.
60. exp Adenoviridae Infections/
61. exp Severe Acute Respiratory Syndrome/ or (severe acute respiratory syndrome or sars).tw.
62. exp Respiratory Syncytial Viruses/ or exp Respiratory Syncytial Virus Infections/ or (respiratory syncytial virus or rsv).tw.
63. exp Human bocavirus/ or bocavirus.tw.
64. exp Pneumovirus Infections/ or exp Metapneumovirus/ or metapneumovirus.tw.
65. exp Enterovirus Infections/ or exp Enterovirus/ or enterovirus.tw.
66. exp Parvovirus B19, Human/ or Parvoviridae Infections/ or exp Erythema Infectiosum/
67. exp Parechovirus/ or parechovirus.tw.
68. (acute respiratory infection* or acute respiratory tract infection*).tw.
69. exp Orthomyxoviridae Infections/
70. (avian and (influenza or flu)).tw.
71. exp Acinetobacter/ or exp Acinetobacter Infections/ or acinetobacter.tw.
72. HCoV EMC 2012.tw.

73. or/11-72
74. 10 and 73
75. 74 use prmz
76. (health facilit* adj3 (close* or closur* or closing)).tw.
77. (hospital* adj3 (close* or closur* or closing)).tw.
78. (ward* adj3 (close* or closur* or closing)).tw.
79. (unit* adj3 (close* or closur* or closing)).tw.
80. (wing* adj3 (close* or closur* or closing)).tw.
81. (partial* adj2 (close* or closur* or closing)).tw.
82. (bay* adj3 (close* or closur* or closing)).tw.
83. ((bay or bays) adj3 contain*).tw.
84. (department* adj3 (close* or closur* or closing)).tw.
85. cohorting.tw.
86. or/76-85
87. exp infection control/
88. (communicable disease* adj3 control*).tw.
89. (outbreak adj3 control*).tw.
90. outbreak*.tw.
91. exp disease transmission/
92. (cross adj2 transmi*).tw.
93. (pathogen* adj2 spread*).tw.
94. (pathogen* adj3 colonis*).tw.
95. (pathogen* adj3 coloniz*).tw.
96. (microb* adj3 colonis*).tw.
97. (microb* adj3 coloniz*).tw.
98. (mycobacteri* adj3 colonis*).tw.
99. exp viruses/
100. exp virus infection/
101. rhinovirus.tw.
102. exp Gram negative bacterium/
103. exp influenza/ or (influenza or flu).tw.
104. exp methicillin resistant Staphylococcus aureus/ or Staphylococcus infection/ or (Staphylococcus aureus or mrsa or mssa).tw.
105. exp Enterococcus/ or (Vancomycin resistant Enterococci or vre).tw.
106. (cre or Carbapenem resistant enterobacteri*).tw.
107. exp Enterobacteriaceae infection/
108. (cro or Carbapenem Resistant Organism*).tw.
109. (cpo or Carbapenemase Producing Organism*).tw.
110. (ndm-1 or New Delhi metallo-beta-lactamase-1).tw.
111. (esbl or Extended Spectrum Beta Lactamase).tw.
112. exp antibiotic resistance/
113. (drug adj2 resist*).tw.
114. (anti microbial resistan* or antimicrobial resistan* or amr).tw.
115. (((anti-biotic or antibiotic) adj2 organism*) or (anti-resistant or antiresistant)).tw.
116. exp Tuberculosis/ or (tb or tuberculosis).tw.

117. exp atypical Mycobacterium/ or exp mycobacteriosis/
118. exp Clostridium difficile/ or (c difficile or cdf or cdi or Clostridium difficile Associated Disease or cdad or bacillus difficilis).tw.
119. exp Norovirus/ or (norovirus or Norwalk virus).tw.
120. exp calicivirus infection/ or calicivirus.tw.
121. exp Rotavirus infection/ or rotavirus.tw.
122. exp Klebsiella pneumoniae/ or kpc.tw.
123. exp Coronavirus infection/ or (Middle East respiratory syndrome or MERS-CoV or EMC 2012).tw.
124. exp hospital infection/ or ((healthcare adj2 (associated or acquired)) or hospital acquired infection* or hai).tw.
125. (nosocomial or (nosocomial adj2 pathogen*)).tw.
126. exp communicable disease/
127. exp diarrhea/ or ((hospital adj3 diarrhea*) or (diarrhea* adj2 ill*)).tw.
128. exp measles/ or (Subacute Measles Encephalitis or sme).tw.
129. oxa 48.tw.
130. exp common cold/ or common cold.tw.
131. exp Adenovirus/ or exp Mastadenovirus/ or exp Human adenovirus/ or adenovir*.tw.
132. exp adenovirus infection/
133. exp Severe Acute Respiratory Syndrome/ or (severe acute respiratory syndrome or sars).tw.
134. exp Respiratory syncytial pneumovirus/ or exp respiratory syncytial virus infection/ or (respiratory syncytial virus or rsv).tw.
135. exp bocavirus/ or bocavirus.tw.
136. exp Pneumovirus infection/ or exp metapneumovirus/ or (pneumovirus or metapneumovirus).tw.
137. exp Enterovirus infection/ or exp Enterovirus/ or enterovirus.tw.
138. exp Human parvovirus B19/ or exp parvovirus infection/ or exp erythema infectiosum/
139. exp Parechovirus/ or parechovirus.tw.
140. (acute respiratory infection* or acute respiratory tract infection*).tw.
141. exp orthomyxovirus infection/
142. (avian and (influenza or flu)).tw.
143. exp Acinetobacter Infections/ or acinetobacter.tw.
144. HCoV EMC 2012.tw.
145. or/87-144
146. 86 and 145
147. 146 use oemez
148. 75 or 147
149. remove duplicates from 148

EBSCO CINAHL

#	Query	Limiters/Expanders
S1	health facilit* N3 (close* OR clousur* or closing)	Search modes - Find all my search terms
S2	hospital* N3 (close* OR clousur* or closing)	Search modes - Find all my search terms
S3	ward* N3 (close* OR clousur* or closing)	Search modes - Find all my search terms
S4	unit* N3 (close* OR clousur* or closing)	Search modes - Find all my search terms
S5	wing* N3 (close* OR clousur* or closing)	Search modes - Find all my search terms
S6	partial* N2 (close* OR clousur* or closing)	Search modes - Find all my search terms
S7	bay* N3 (close* OR clousur* or closing)	Search modes - Find all my search terms
S8	(bay OR bays) AND contain*	Search modes - Find all my search terms
S9	cohorting	Search modes - Find all my search terms
S10	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9	Search modes - Find all my search terms
S11	(MH "Infection Control+")	Search modes - Find all my search terms
S12	communicable disease* N3 control*	Search modes - Find all my search terms
S13	outbreak N3 control*	Search modes - Find all my search terms
S14	outbreak	Search modes - Find all my search terms
S15	(MH "Disease Transmission+")	Search modes - Find all my search terms
S16	cross N2 transmi*	Search modes - Find all my search terms
S17	pathogen* N2 spread*	Search modes - Find all my search terms
S18	pathogen* N2 colonis*	Search modes - Find all my search terms
S19	pathogen* N2 coloniz*	Search modes - Find all my search terms
S20	microb* N2 colonis*	Search modes - Find all my search terms
S21	microb* N2 coloniz*	Search modes - Find all my search terms
S22	mycobacteri* N2 coloniz*	Search modes - Find all my search terms
S23	(MH "Viruses+")	Search modes - Find all my search terms
S24	rhinovirus*	Search modes - Find all my search terms
S25	(MH "Gram-Negative Bacteria+")	Search modes - Find all my search terms
S26	(MH "Influenza+") OR influenza OR flu	Search modes - Find all my search terms
S27	(MH "Methicillin-Resistant Staphylococcus Aureus") OR staphylococcus infection OR ((staphylococcus aureus or mrsa or mssa))	Search modes - Find all my search terms
S28	(MH "Enterococcus+") OR vancomycin resistant enterococci OR vre	Search modes - Find all my search terms
S29	(MH "Drug Resistance, Microbial+")	Search modes - Find all my search terms
S30	(MH "Drug Resistance, Microbial+") OR drug N2 resist* OR ((anti microbial resistan* or antimicrobial resistan* or amr))	Search modes - Find all my search terms
S31	cre OR carbapenam resistant enterobacteri*	Search modes - Find all my search terms
S32	(MH "Enterobacteriaceae Infections+")	Search modes - Find all my search terms
S33	cro OR carbapenam resistant organism*	Search modes - Find all my search terms
S34	cpo OR carbapenamase producing organism*	Search modes - Find all my search terms
S35	esbl OR extended spectrum beta lactamase	Search modes - Find all my search terms
S36	(MH "Tuberculosis+") OR tb OR tuberculosis	Search modes - Find all my search terms

S37	(MH "Mycobacterium Infections+")	Search modes - Find all my search terms
S38	(MH "Clostridium Difficile") OR ((c difficile or cdi or clostridium difficile associated disease or cdad))	Search modes - Find all my search terms
S39	(MH "Caliciviridae Infections+") OR calicivirus	Search modes - Find all my search terms
S40	((MH "Rotavirus Infections") OR (MH "Rotaviruses")) OR rotavirus	Search modes - Find all my search terms
S41	(MH "Klebsiella Infections") OR kpc	Search modes - Find all my search terms
S42	(MH "Coronavirus Infections") OR (MH "Coronavirus") OR ((Middle East respiratory syndrome or MERS-CoV or EMC 2012))	Search modes - Find all my search terms
S43	(MH "Cross Infection") OR (MH "Communicable Diseases")	Search modes - Find all my search terms
S44	hospital infection OR (healthcare N2 (associated or acquired)) OR (hospital acquired infection* or hai)	Search modes - Find all my search terms
S45	nosocomial AND (nosocomial N2 pathogen*)	Search modes - Find all my search terms
S46	(MH "Diarrhea") OR hospital N3 diarrhea* OR diarrhea* N2 ill*	Search modes - Find all my search terms
S47	(MH "Measles+") OR subacute measles encephalitis OR sme	Search modes - Find all my search terms
S48	oxa 48	Search modes - Find all my search terms
S49	(MH "Common Cold") OR common cold	Search modes - Find all my search terms
S50	mastadenovir* OR adenovir*	Search modes - Find all my search terms
S51	Severe Acute Respiratory Syndrome OR sars	Search modes - Find all my search terms
S52	(MH "Respiratory Syncytial Viruses") OR (MH "Respiratory Syncytial Virus Infections") OR respiratory syncytial virus OR rsv	Search modes - Find all my search terms
S53	bocavirus	Search modes - Find all my search terms
S54	pneumovirus OR metapneumovirus	Search modes - Find all my search terms
S55	(MH "Enterovirus") OR (MH "Enterovirus Infections") OR enterovirus	Search modes - Find all my search terms
S56	(MH "Parvovirus Infections") OR (MH "Erythema Infectiosum")	Search modes - Find all my search terms
S57	(MH "Parvovirus Infections") OR (MH "Erythema Infectiosum") or parvovirus	Search modes - Find all my search terms
S58	acute respiratory infection* OR acute respiratory tract infection*	Search modes - Find all my search terms
S59	orthomyxovir*	Search modes - Find all my search terms
S60	(avian and (influenza or flu))	Search modes - Find all my search terms
S61	ndm-1 OR New Delhi Metallo-beta-lactamase-1	Search modes - Find all my search terms
S62	(MH "Acinetobacter Infections")	Search modes - Find all my search terms
S63	HCoV EMC 2012	Search modes - Find all my search terms
S64	acinetobacter	Search modes - Find all my search terms

S65	S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR S49 OR S50 OR S51 OR S52 OR S53 OR S54 OR S55 OR S56 OR S57 OR S58 OR S59 OR S60 OR S61 OR S62 OR S63 OR S64	Search modes - Find all my search terms
S66	(S10 AND S65)	Search modes - Find all my search terms
S67	(S10 AND S65)	Limiters - Exclude MEDLINE records Search modes - Find all my search terms

Procedure used to create gold standard sets

1. Sort by Title> Primary> sort ascending order> use conditional formatting to highlight duplicates
2. Sort by Authors, Primary, sort ascending order, use conditional formatting to highlight duplicates
3. Insert 2 columns, in one use formula=left(Dn,30) to truncate Primary title (noticed that punctuation at end sometimes negatively affected conditional formatting, #30 completely arbitrary), in second column use=ROWn=ROW(n-1), conditional formatting to highlight TRUE, scanned list
4. Replaced equation from #3 with=G2&" "&J2" "&K2" "&L2 (to combine together Journal title, vol, issue, start page), sort ascending, in second column use=ROWn=ROW(n-1), conditional formatting to highlight TRUE, scanned list
5. Sort by Authors, Primary, manually scanned to check for same primary author