APPENDIX A: Search strategy

The search strategy was created with the assistance of the librarians at the University of Wisconsin in Madison. EndNote software was used as reference manager.

1. PubMED:

("Proton Pump Inhibitors"[Mesh] OR Proton Pump Inhibitor\* OR PPI\* OR Omeprazole OR Lansoprazole OR Dexlansoprazole OR Esomeprazole OR Pantoprazole OR Rabeprazole OR Ilaprazole)) AND (*Clostridium difficile* OR CDI)

#1 [MeSH] Proton Pump Inhibitors

#2 Proton Pump Inhibitor\*

#3 PPI\*

#4 Omeprazole

#5 Lansoprazole

#6 Dexlansoprazole

#7 Esomeprazole

#8 Pantoprazole

#9 Rabeprazole

#10 Ilaprazole

#11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10

#12 [[MeSH]](http://www3.interscience.wiley.com/cochrane/searchHistory?mode=runquery&qnum=1) *[Clostridium difficile](http://www3.interscience.wiley.com/cochrane/searchHistory?mode=runquery&qnum=1)*

#13 CDI

#14 #12 OR #13

1. CINAHL:

(Proton Pump Inhibitor\* OR PPI\* OR Omeprazole OR Lansoprazole OR Dexlansoprazole OR Esomeprazole OR Pantoprazole OR Rabeprazole OR Ilaprazole)) AND (*Clostridium difficile* OR CDI)

#1 Proton Pump Inhibitors

#2 Proton Pump Inhibitor\*

#3 PPI\*

#4 Omeprazole

#5 Lansoprazole

#6 Dexlansoprazole

#7 Esomeprazole

#8 Pantoprazole

#9 Rabeprazole

#10 Ilaprazole

#11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10

#12 [*Clostridium difficile*](http://www3.interscience.wiley.com/cochrane/searchHistory?mode=runquery&qnum=1)

#13 CDI

#14 #12 OR #13

1. Cochrane Central Register of Controlled Trials (CENTRAL):

(Proton Pump Inhibitor OR PPI OR Omeprazole OR Lansoprazole OR Dexlansoprazole OR Esomeprazole OR Pantoprazole OR Rabeprazole OR Ilaprazole) AND (*Clostridium difficile* OR CDI)

#1 Proton Pump Inhibitors

#2 Proton Pump Inhibitor\*

#3 PPI\*

#4 Omeprazole

#5 Lansoprazole

#6 Dexlansoprazole

#7 Esomeprazole

#8 Pantoprazole

#9 Rabeprazole

#10 Ilaprazole

#11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10

#12 [*Clostridium difficile*](http://www3.interscience.wiley.com/cochrane/searchHistory?mode=runquery&qnum=1)

#13 CDI

#14 #12 OR #13

1. Web of Science:

(Proton Pump Inhibitor\* OR PPI\* OR Omeprazole OR Lansoprazole OR Dexlansoprazole OR Esomeprazole OR Pantoprazole OR Rabeprazole OR Ilaprazole) AND (*Clostridium difficile* OR CDI)

#1 Proton Pump Inhibitors

#2 Proton Pump Inhibitor\*

#3 PPI\*

#4 Omeprazole

#5 Lansoprazole

#6 Dexlansoprazole

#7 Esomeprazole

#8 Pantoprazole

#9 Rabeprazole

#10 Ilaprazole

#11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10

#12 [*Clostridium difficile*](http://www3.interscience.wiley.com/cochrane/searchHistory?mode=runquery&qnum=1)

#13 CDI

#14 #12 OR #13