

Asthma Guidelines – EPR3 Literature Review Search Strategy Progress Summary

Assessment and Monitoring

Search Strategies

March 23, 2006 Mini-Update search (Covering Dec. 1, 2005 – Mar. 15, 2006):

Run the strategies with just the updated dates first:

#1 First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2005/12/01:2006/03/15[dp]
60 hits

#1 Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2005/12/01:2006/03/15[dp]
50 hits

Combine them into one set, in Pubmed, by doing this search: (Pubmed eliminated the duplicates)

#1 OR #2

84 hits

Then, run the strategies with the updated dates and with the pub.-type limits too:

#2 First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2005/12/01:2006/03/15[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
26 hits

#2 Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2005/12/01:2006/03/15[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
36 hits

Combine them into one set, in Pubmed, by doing this search: (Pubmed eliminated the duplicates)

#4 OR #5

41 hits-Removed duplicates to end up with a set of **37 hits**.

Get the residual sets, which is the first set NOT the second set. In my Pubmed session, it was

#3 NOT #6

43 hits-Removed duplicated to end up with a set of **41 hits**.

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January 10, 2006 Mini-Update search (Covering Oct 2, 2005 – Jan 1, 2006):

Run the strategies with just the updated dates first:

#1 First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2005/10/02:2006/01/01[dp]
20 hits

#1 Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2005/10/02:2006/01/01[dp]
15 hits

Combine them into one set, in Pubmed, by doing this search: (Pubmed eliminated the duplicates)

#1 OR #2

30 hits

Then, run the strategies with the updated dates and with the pub.-type limits too:

#2 First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2005/10/02:2006/01/01[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
11 hits

#2 Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2005/10/02:2006/01/01[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
10 hits

Combine them into one set, in Pubmed, by doing this search: (Pubmed eliminated the duplicates)

#5 OR #6

17 hits

Get the residual sets, which is the first set NOT the second set. In my Pubmed session, it was the set of 30 NOT the set of 17:

#4 NOT #7

13 hits- Eliminate 1 duplicate from the Nov 2005 list,

So final set is 12 hits.

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November 2, 2005 Mini-Update Search (covering Aug 27, 2005 – Nov 2, 2005):

Run original strategies—with just updated dates:

First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2005/08/27:2005/11/02[dp]
22 results

Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2005/08/27:2005/11/02[dp]
20 results

Now limit to specific types of studies (RCTs, meta-analysis, systematic reviews, and epidemiologic studies):

First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2005/08/27:2005/11/02[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
14 results

Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2005/08/27:2005/11/02[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
14 results

Combine the set of 14 with the other set of 14 into one set and eliminate all duplicates:

16 results

Compared sets of 22 and 20 to set of 16 to find unique titles after removing duplicates. Found 11 new citations.

11 results

September 29, 2005 Update Search (covering Oct 1, 2004 – Sept 27, 2005):

Run original strategy—with just updated dates:

First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2004/10/01:2005/09/27[dp]
363 results

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Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2004/10/01:2005/09/27[dp]
300 results

Now limit to specific types of studies (RCTs, meta-analysis, systematic reviews, and epidemiologic studies):

First A&M search strategy

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2004/10/01:2005/09/27[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
182 results

Second A&M search strategy

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2004/10/01:2005/09/27[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])
185 results

Combined the sets of 182 and 185 into one set and removed duplicates:

279 results

Compared the sets to find unique “residual” titles:

First A&M search strategy-Residual

181 results

Second A&M search strategy-Residual

115 results

Combined the sets of 181 and 115 into one set and removed duplicates:

248 results

November 2004 MEDLINE Search Strategies:

Asthma[majr] AND (burden OR bother OR quality of life OR severity of attacks OR exacerbation OR acute OR cost of illness OR fear OR frequency of symptoms OR underactivity OR lifestyle modification OR stress) AND (symptoms OR outcome OR adherence) AND human[mh] AND English[la] AND hasabstract AND 2000/01/01:2004/11/01[dp]
2,211 results

Asthma[majr] AND (FEV1 decline OR spirometry OR lung function OR progression of severity OR remodeling OR increased eosinophilia OR increased severity OR emergency department OR hospitalization OR lack of adherence) AND (risk OR outcome OR predict*) AND human[mh] AND English[la] AND hasabstract AND 2000/01/01:2004/11/01[dp]
1,724 results

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Combined sets above to get one large list of results = **2,958**

942 titles voted KEEP – viewed for second round title screening.

October 2004 MEDLINE Search Strategies:

Overview

(asthma severity OR severe asthma OR Asthma[mh]) AND (monitoring OR self-monitoring OR peak expiratory flow rate[mh] OR patient compliance[majr] OR self-care[majr] OR monitoring, physiologic[majr]) AND Human[mh] AND clinical trial[pt] AND English[la] AND hasabstract AND 2000/01/01:2004/09/30[dp]

300 results – screened at October 2004 meeting (48 KEEP)

Classification of Severity

asthma AND (severity OR symptoms OR risk factors OR lung function OR attacks OR control) AND (guidelines OR classification) AND 2004/01/01:2004/10/07[dp] AND clinical trial[pt] AND English[la] AND hasabstract AND human[mh]

18 results + 35 transfers from other sections = **53 total** – screened at October 2004 meeting. (21 KEEP)

Pre-Oct'04 Search Strategies:

Classification of Severity

Asthma AND (severity OR symptoms OR risk factors OR lung function OR attacks) AND (outcomes OR hospital OR emergency department OR cost OR death) AND (guidelines OR classification) AND Human[mh] AND clinical trial[pt] AND English[la] AND hasabstract

329 results + 40 transfers from expert recommendations = **369 total** (119 KEEP)