

Asthma Guidelines – EPR3 Literature Review Search Strategy Progress Summary

Bronchodilators, Anticholinergics

Search Strategies

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

Run original strategy—with just updated dates:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2005/12/01:2006/03/15[dp] AND English[la] AND human[mh] AND hasabstract
39 hits

Then run it with the updated dates and with publication-type limits too:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2005/12/01:2006/03/15[dp] AND English[la] AND human[mh] AND hasabstract AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]))
15 hits-Removed duplicates to end up with **14 hits**.

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

#4 NOT #5

24 hits- Removed duplicates to end up with **22 hits**.

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

Run original strategy—with just updated dates:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2005/10/02:2006/01/01[dp] AND English[la] AND human[mh] AND hasabstract
10 hits

Then run it with the updated dates and with publication-type limits too:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2005/10/02:2006/01/01[dp] AND English[la] AND human[mh] AND hasabstract AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]))
4 hits

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

#1 NOT #2

6 hits

November 2, 2005 Mini-Update Search (covering July 3, 2005 – Nov 2, 2005):

Run original strategy—with just updated dates:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2005/07/03:2005/11/02[dp] AND English[la] AND human[mh] AND hasabstract
28 results

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

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2005/07/03:2005/11/02[dp]

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AND English[la] AND human[mh] AND hasabstract AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]))

12 results

Compared set of 28 to set of 12 to find unique titles. Found 16 new citations.

16 results

August 5, 2005 UPDATE Search (covering Nov. 1, 2004 – Aug. 3, 2005):

Run original strategy—with just updated dates:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND (adverse effects[sh] OR treatment outcome[mh] OR therapeutic equivalency[mh] OR sex[mh] OR gender OR ethnology[sh]) AND 2004/11/01:2005/08/03[dp] AND English[la] AND human[mh] AND hasabstract
67 results

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

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND (adverse effects[sh] OR treatment outcome[mh] OR therapeutic equivalency[mh] OR sex[mh] OR gender OR ethnology[sh]) AND 2004/11/01:2005/08/03[dp] AND English[la] AND human[mh] AND hasabstract AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]))

30 results

Compared set of 67 to set of 30 to find unique titles. Found 37 new citations.

37 "residual" results

Run the search again without the "adverse effects" string:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND 2004/11/01:2005/08/03[dp] AND English[la] AND human[mh] AND hasabstract AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]))
71 results

Compared set of 67 to set of 71 to find unique titles. Found 43 new citations.

43 results

November 2004 Search Strategy:

Asthma[mh] AND (bronchodilators OR bronchodilator agents[mh] OR albuterol[mh] OR cholinergic antagonists[mh] OR ipratropium[mh] OR adrenergic beta-agonists[mh]) AND (adverse effects[sh] OR treatment outcome[mh] OR therapeutic equivalency[mh] OR sex[mh] OR gender OR ethnology[sh]) AND 2000/01/01:2004/11/01[dp] AND English[la] AND human[mh] AND hasabstract

459 results

October 2004 Search Strategy:

Asthma AND bronchodilators[mh] AND clinical trial[pt] AND 2000/01/01:2004/10/15[dp] AND English[la] AND human[mh] AND has abstract

359 results