

# Asthma Guidelines – EPR3 Literature Review Search Strategy Progress Summary

## Control of Factors Contributing to Asthma Severity

### Search Strategies

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

Run the strategy—with just updated dates:

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh]) AND Human[mh] AND English[la] AND hasabstract AND 2005/12/01:2006/03/15[dp]  
69 hits

Run the strategy with the updated dates and with the publication-type limits too:

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh]) 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])

**19 hits**

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

#1 NOT #2

50 hits-Removed duplicates to end up with final set of **45 hits**.

#### **January 9, 2006 Mini-Update Search (covering Oct 2, 2005 – Jan 1, 2006):**

Run the strategy—with just updated dates:

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh]) AND Human[mh] AND English[la] AND hasabstract AND 2005/10/02:2006/01/01[dp]  
25 hits

Run the strategy with the updated dates and with the publication-type limits too:

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air

## **Asthma Guidelines – EPR3 Literature Review Search Strategy Progress Summary**

### **Control of Factors Contributing to Asthma Severity**

pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh] 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])  
8 hits, but eliminated 1 duplicate to the Nov 2006 Mini-Update list,  
So final set is **7 hits**.

Get the residual set, which is the first set NOT second set. In my Pubmed session, it was:  
#1 NOT #2  
17 hits

#### **November 2, 2005 Mini-Update Search (covering July 17, 2005 – Nov 2, 2005):**

Run original strategy—with just updated dates:

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh] AND Human[mh] AND English[la] AND hasabstract AND 2005/07/17:2005/11/02[dp]  
45 results

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

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh] AND Human[mh] AND English[la] AND hasabstract AND 2005/07/17:2005/11/02[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])  
**22 results**

Compared set of 45 to set of 22 to find unique titles. Found 23 new citations.  
**23 results**

#### **August 2005 Update Search (covering November 1, 2004 – August 17, 2005):**

Search modified to include subtopics designated for this: hormones, menstruation, obesity, Adrenergic beta-Antagonists (covers beta-blockers), rhinitis, sinusitis, sulfites, allergens, respiratory tract infections, virology, virus diseases/physiopathology, occupational diseases, immunotherapy, and diet; and removed aspergillus (covered in Special Considerations):

## **Asthma Guidelines – EPR3 Literature Review Search Strategy Progress Summary**

### **Control of Factors Contributing to Asthma Severity**

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh]) AND Human[mh] AND English[la] AND hasabstract AND 2004/11/01:2005/08/17[dp]  
**385 results**

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

Asthma[mh] AND (diet[mh] OR tobacco smoke pollution[mh] OR obesity[mh] OR hormones[majr] OR menstruation[majr] OR rhinitis[mh] OR sinusitis[mh] OR Adrenergic beta-Antagonists[mh] OR sulfites[mh] OR allergens[mh] OR respiratory tract infections[mh] OR virology[sh] OR virus diseases/physiopathology OR occupational diseases[mh] OR immunotherapy[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh]) AND Human[mh] AND English[la] AND hasabstract AND 2004/11/01:2005/08/17[dp] AND (randomized controlled trial[pt] OR meta-analysis[pt] OR ("systematic review" AND review[pt]) OR epidemiologic studies[mh])  
**166 results**

Compared set of 385 to set of 166 to find unique titles. Found 219 new citations.  
**219 results**

#### **November 2004 Search Strategy:**

Asthma[mh] AND (tobacco smoke pollution[mh] OR air pollution, indoor[mh] OR cats[mh] OR dogs[mh] OR aspergillus[mh] OR mycoplasma[mh] OR Chlamydia[mh] OR volatile organic compounds OR mice[mh] OR mold OR fungi[mh] OR carpets OR bedding and linens[mh] OR endotoxins[mh] OR endotoxin stress diet OR psychoneuroimmunology[mh] OR (aspirin[mh] AND drug hypersensitivity[mh] AND adverse effects[sh]) OR depression[mh] OR anxiety[mh]) AND Human[mh] AND English[la] AND hasabstract AND 1997/01/01:2004/11/01[dp]  
1,271 results

Compared to set of 859 already screened before and after October 2004:  
**1,185 results remain**

#### **October 2004 Search Strategy (results screened prior to and after October meeting):**

Asthma AND (allergens OR prevention OR environment OR occupational exposures OR gastroesophageal reflux OR rhinitis OR sinusitis OR viral respiratory infections OR immunotherapy OR aspirin OR beta blockers OR sulfites OR exercise OR ozone OR flu OR house dust mites OR psychological factors OR obesity OR air pollution OR atopy) AND Human[mh] AND clinical trial[pt] AND English[la] AND hasabstract AND 1997/01/01:2004/08/31[dp]

**859 results** (pre-October and October KEEP results were selected out of this set.)

**Asthma Guidelines – EPR3 Literature Review  
Search Strategy Progress Summary**

**Control of Factors Contributing to Asthma Severity**

**Hormones – separate search originally done for Special Considerations, but was later moved to Factors:**

asthma[majr] AND (hormones[majr] OR menstruation[majr]) AND 1997/01/01:2004/11/01[dp]  
AND human[mh] AND English[la] AND hasabstract AND female[mh]

**416 results**