

# SEARCH STRATEGIES

# EBM Steps....

- ❑ **Formulating an answerable question**
- ❑ **Converting the question into search strategy**
- ❑ **....**

# Process of Finding the Evidence

## □ Formulate a clinical question

Covered

—

Identify the key terms which define your question

Type of research and which database will give best answer to your question

Databases are different, familiarize your self

# SOURCES: PRIMARY OR SECONDARY

❑ No need to re-invent the wheel

➤ Secondary Sources

- Some body else did the heavy work

- Searching
- Critical appraisal
- User's friendly presentation



❑ At times you will have to look for Primary Sources



# Principles of searching

- Use **↑ SENSITIVE** / Text words
  - Use Index terms / Subject headings
  - Construct a search strategy
  - Use Boolean (AND, OR & NOT) **↑ SPECIFIC** operators
- COMPLEMENT EACH OTHER
- 
- ```
graph TD; A[↑ SENSITIVE] --- B[Use / Text words]; B --- C[Use Index terms / Subject headings]; C --- D[Construct a search strategy]; D --- E[Use Boolean AND, OR & NOT]; E --- F[↑ SPECIFIC]; G[COMPLEMENT EACH OTHER] --> B; G --> C; H[↑ SPECIFIC] --> E;
```

## **KEY / TEXT WORDS**

**These are words or phrases that can appear in the Title, ABstract [TIAB] and other areas of the PubMed reference.**

# Medical Subjects Heading: MeSH

- **MeSH** is NLM's controlled vocabulary used for indexing articles for MEDLINE/PubMed
- **MeSH** terminology provides a consistent way to retrieve information that may use different terminology for the same concepts

# MeSH (contid)

## □ MeSH (Medical Subject Headings)

- assigned by human indexers to most references in *PubMed*
- Indexers use the most specific MeSH that appropriately describe the contents of the article
- Usually there are several MeSH given to each article



# MeSH (contid)

- PubMed automatically tries to find a MeSH for each term entered in a search
- A MeSH search will find all the articles that have that particular Subject Heading
- A search on the MeSH *Anti-Bacterial Agents* will find
  - *Anti-Bacterial Agents*
  - *Antibiotics*
  - *Antitubercular*
  - *Antitreponemal*

# Bibliographic Databases

## DAILY HEMODIALYSIS AND THE OUTCOME OF ACUTE RENAL FAILURE

HELMUT SAWFEL, M.D., SUSANNE M. LANG, M.D., and DONALD FISCHER, M.D.

### ABSTRACT

**Background** Intermittent hemodialysis is widely used as renal-replacement therapy in patients with acute renal failure, but an adequate dose has not been defined. We performed a prospective study to determine the effect of daily intermittent hemodialysis, as compared with conventional (alternate-day) intermittent hemodialysis, on survival among patients with acute renal failure.

**Methods** A total of 160 patients with acute renal failure were assigned to receive daily or conventional intermittent hemodialysis. Survival was the primary end point of the study. The duration of acute renal failure and the frequency of therapy-related complications were secondary end points.

**Results** The two study groups were similar with respect to age, sex, cause and severity of acute renal failure, medical or surgical intensive care setting, and the score on the Acute Physiology, Age, and Chronic Health Evaluation. Daily hemodialysis resulted in better control of uremia, fewer hypertensive episodes during hemodialysis, and more rapid resolution of acute renal failure (mean [ $\pm$ SD],  $9 \pm 2$  vs.  $16 \pm 6$  days;  $P=0.001$ ) than did conventional hemodialysis. The mortality rate, according to the intention-to-treat analysis, was 28 percent for daily dialysis and 46 percent for alternate-day dialysis ( $P=0.01$ ). In a multiple regression analysis, less frequent hemodialysis (on alternate days, as opposed to daily) was an independent risk factor for death.

**Conclusions** The high mortality rate among critically ill patients with acute renal failure who require renal-replacement therapy is related to both coexisting conditions and uremic damage to other organ systems. Intensive hemodialysis reduces mortality without increasing hemodynamically induced morbidity. (N Engl J Med 2002;346:305-10.)

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Renal Dialysis

Prospective Studies

Kidney Failure, Acute

EXIN

Uremia

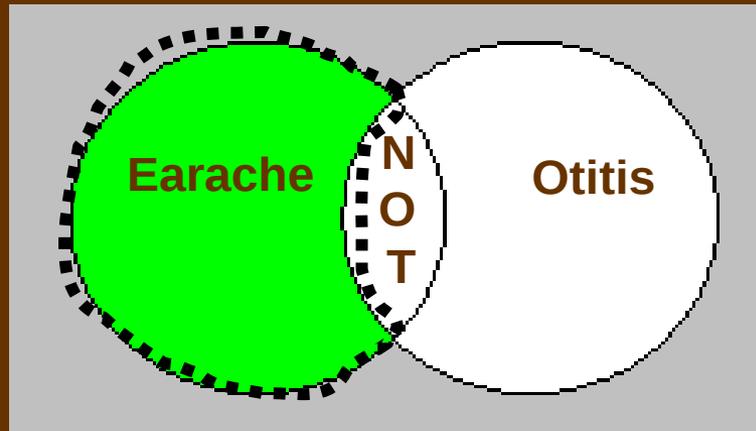
Mortality



# Boolean Operators

- ❑ Are **AND**, **OR** and **NOT**
- ❑ They **MUST** be capitalized in a search
- ❑ Use when searching for more than one concept

# Boolean Operators



**Earache NOT Otitis**

# Example

One of your residents asked you:  
Should we stop prescribing  
traditional NSAID to patients with  
osteoarthritis, and shift to the  
selective COX2 inhibitors?

In adult patients with osteoarthritis are COX2 inhibitors compared to traditional NSAID more effective in controlling pain?

| POPULATION     | INTERVENTION    | COMPARISON | OUTCOME      |
|----------------|-----------------|------------|--------------|
| osteoarthritis | COX2 inhibitors | NSAID      | Pain control |

| POPULATION            | INTERVENTION          | COMPARISON                                   | OUTCOME    |
|-----------------------|-----------------------|----------------------------------------------|------------|
| Osteoarthritis [MeSH] | COX2-Inhibitors[MeSH] | Antiinflammatory Agents, Non-Steroidal[MeSH] | Pain[MeSH] |

| POPULATION                                    | INTERVENTION                                   | COMPARISON                                                  | OUTCOME                          |
|-----------------------------------------------|------------------------------------------------|-------------------------------------------------------------|----------------------------------|
| Osteoarthritis<br>OR<br>Osteoarthritis [MeSH] | COX2 inhibitors<br>OR<br>COX2-Inhibitors[MeSH] | NSAID<br>OR<br>Antiinflammatory Agents, Non-Steroidal[MeSH] | Pain control<br>OR<br>Pain[MeSH] |

# PubMed

# Overview

## □ MEDLINE covers

- ✓ Medicine
- ✓ Nursing
- ✓ Dentistry
- ✓ Veterinary medicine
- ✓ Health care system
- ✓ Preclinical sciences

□ Approximately 16 million records dating back to the mid-1950's

□ From over 5,000 current biomedical journals

# DATABASES

# SEARCH BOX

# FEATURES TABS

# SIDE BAR

The image shows a screenshot of the NCBI PubMed website with several key features highlighted by red boxes and red lines connecting them to labels. The browser's address bar shows the URL <http://www.ncbi.nlm.nih.gov/entrez/quer>. The main navigation bar includes links for 'All Databases', 'PubMed', 'PubMed Central', 'OMIM', 'PMC', 'Journals', and 'Books'. The search bar contains the text 'PubMed' and has 'Go' and 'Clear' buttons. Below the search bar are tabs for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. The left sidebar contains a list of links, with 'Tutorials' circled in red. The main content area includes instructions on how to search and a section for 'Update in'.

File Edit View Favorites Tools Help

Address <http://www.ncbi.nlm.nih.gov/entrez/quer>

NCBI PubMed A service of the National Library of Medicine and the National Institutes of Health [My NCBI](#) [Sign In](#) [Register](#)

All Databases PubMed PubMed Central OMIM PMC Journals Books

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Journals Database  
MeSH Database  
Single Citation  
Matcher  
Batch Citation Matcher  
Clinical Queries  
Special Queries  
LinkOut  
My NCBI

Related Resources  
Order Documents  
NLM Mobile

To get started, enter one or more search terms.  
Search terms may be [topic](#), [authors](#) or [journals](#).

Update in

(3) Your PubMed updates can be e-mailed directly to you.  
Read the [My NCBI Help](#) material to explore other options, such as automated updates of other databases, setting search filters, and highlighting search terms.

PubMed is a service of the National Library of Medicine that includes over 16 million citations and abstracts of articles back to the 1950s. It also includes text articles and other related resources.

Internet



A service of the National Library of Medicine  
and the National Institutes of Health

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All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Antibiotics in the treatment of earache Go Clear

Limits Preview/Index History Clipboard Details

- To get started, enter one or more search terms.
- Search terms may be [topics](#), [authors](#) or [journals](#).



**Set up an automated PubMed update in less than 5 minutes.**

- (1) Get a [My NCBI account](#).
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Read the [My NCBI Help](#) material to explore other options, such as automated updates of other databases, setting search filters, and highlighting search terms.

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Special Queries

# RESULTS SCREEN

Search PubMed for antibiotics in the treatment of earache

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

All: 61 Review: 4

Items 1 - 20 of 61 Page 1 of 4 Next

- 1: [van Duijn HJ, Kuyvenhoven MM, Schellevis FG, Verheij TJ.](#)  
Views on respiratory tract symptoms and staff and patients.  
Patient Educ Couns. 2006 Jun;61(3):342-7. Epub  
PMID: 16731314 [PubMed - in process]
- 2: [Ostergaard C, Hoiby N, Konradsen HB, Samuelsen L.](#)  
Prehospital diagnostic and therapeutic management of meningitis.  
Scand J Infect Dis. 2006;38(3):172-80.  
PMID: 16507498 [PubMed - indexed for MEDLINE]
- 3: [Plaza Mayor G, Pinedo Moraleda F, Ferrando Alcazar A, de los Santos Granados G.](#)  
[Otalgia as presentation of primary nasopharynx tuberculosis]  
An Otorrinolaringol Ibero Am. 2005;32(6):585-91. Spanish.  
PMID: 16475546 [PubMed - indexed for MEDLINE]

Means there is no abstract available  
Abbreviated journal title...etc  
PubMed ID  
Means there is an abstract available  
Free full text from PubMed Central  
Free full text from another source

The search found only 61 articles on a topic where many more would be expected

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Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=Details&DB=pubmed> Go Links >>

Search PubMed for antibiotics in the treatment of earache Go Clear [Save Search](#)

Limits Preview/Index History Clipboard **Details**

**Query Translation:**

```
(( "anti-bacterial agents"[TIAB] NOT Medline[SB]) OR "anti-bacterial agents"[MeSH Terms] OR "anti-bacterial agents"[Pharmacological Action] OR antibiotics[Text Word]) AND ("therapy"[Subheading] OR ("therapeutics"[TIAB] NOT Medline[SB]) OR "therapeutics"[MeSH Terms] OR treatment[Text Word]) AND ("earache"[MeSH Terms] OR earache[Text Word])
```

Search URL

**Result:**

[61](#)

**Stopword(s) Ignored:**

in  
the  
of

**Translations:**

antibiotics ("anti-bacterial agents"[TIAB] NOT Medline[SB]) OR "anti-bacterial agents"[MeSH Term] OR "anti-bacterial agents"[Pharmacological Action] OR antibiotics[Text Word]

Done Internet

# RESULTS SCREEN

The screenshot shows the PubMed search results page for the query "antibiotics". A red box highlights the options menu and the search results. The options menu includes "Display" (Summary, Brief, Abstract, AbstractPlus, Citation, MEDLINE, XML, UI List, LinkOut, ASN.1, Related Articles), "Show" (20, 5, 10, 20, 50, 100, 200, 500), "Sort by" (Sort by, Pub Date, First Author, Last Author, Journal), and "Send to" (Send to, Text, File, Printer, Clipboard, E-mail, RSS Feed, Order). The search results are displayed in a list format, with the first result highlighted. The search criteria are "PubMed" for "antibiotics".

Search PubMed for antibiotics

Display Summary Show 20 Sort by Send to

All: 61

1: [M. Scheepers G, Verheij TJ.](#) [Symptoms and antibiotics of Dutch general practitioners, practice](#) [Related Articles, Links](#)

2: [Ostergaard C, Hoiby N, Konradsen HB, Samuelsson S.](#) [Prehospital diagnostic and therapeutic management of otogenic Streptococcus pneumoniae meningitis.](#) [Related Articles, Links](#)

3: [Plaza Mayor G, Pinedo Moraleda F, Ferrando Alvarez-Cortina J, Espinosa Gimeno A, de los Santos Granados G.](#) [\[Otolgia as presentation of primary nasopharynx tuberculosis\] An Otorrinolaringol Ibero Am. 2005;32\(6\):585-91. Spanish.](#) [Related Articles, Links](#)

# 22 OPTIONS IN THE RESULTS SCREEN

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Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=Limits&DB=pubmed> Go Links >>

Search PubMed for otitis AND antibiotics Go Clear

Limits Preview/Index History Clipboard Details

Limit your search by any of the following criteria.

Search by Author Add Author CLEAR

Search by Journal Add Journal CLEAR

Full Text, Free Full Text, and Abstracts CLEAR

Links to full text  Links to free full text  Abstracts

Dates CLEAR

Published in the Last: 5 years

Added to PubMed in the Last:

- Any date
- 30 days
- 60 days
- 90 days
- 180 days
- 1 year
- 2 years
- 3 years
- 5 years
- 10 years
- Specify date range (YYYY/MM/DD)

Humans or Animals CLEAR

Humans  Animals

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Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=Limits&DB=pubmed> Go Links >>

Search for

arch PubMed

**Languages**

- English
- French
- German
- Italian
- Japanese
- Russian
- Spanish

*More Languages*

- Afrikaans
- Albanian

**Subsets**

*Journal Groups*

- Core clinical journals
- Dental journals
- Nursing journals

*Topics*

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
- History of Medicine

**Type of Article**

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review

*More Publication Types*

- Addresses
- Bibliography

**Ages**

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months
- Preschool Child: 2-5 years
- Child: 6-12 years
- Adolescent: 13-18 years
- Adult: 19-44 years
- Middle Aged: 45-64 years

**Tag Terms**

Default Tag:

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Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=pubmed> Go Links >>

Search PubMed for Otitis AND antibiotics Go Clear Save Search

Limits Preview/Index History Clipboard Details

Limits: **All Child: 0-18 years, English, published in the last 5 years, Clinical Trial, Humans**

Display Summary Show 20 Sort by Send to

All: 91 Review: 0

Items 1 - 20 of 91 Page 1 of 5 Next

1: [Rosenblut A, Santolaya ME, Gonzalez P, Borel C, Cofre J.](#) Related Articles, Links  
Penicillin resistance is not extrapolable to amoxicillin resistance in *Streptococcus pneumoniae* isolated from middle ear fluid in children with acute otitis media.  
Ann Otol Rhinol Laryngol. 2006 Mar;115(3):186-90.  
PMID: 16572607 [PubMed - indexed for MEDLINE]

2: [Arguedas A, Dagan R, Leibovitz E, Hoberman A, Pichichero M, Paris M.](#) Related Articles, Links  
A multicenter, open label, double tympanocentesis study of high dose cefdinir in children with acute otitis media at high risk of persistent or recurrent infection.  
Pediatr Infect Dis J. 2006 Mar;25(3):211-8.  
PMID: 16511382 [PubMed - indexed for MEDLINE]

3: [Bowlware KL, McCracken GH Jr, Lozano-Hernandez J, Ghaffar F.](#) Related Articles, Links  
Cefdinir pharmacokinetics and tolerability in children receiving 25 mg/kg once daily.  
Pediatr Infect Dis J. 2006 Mar;25(3):208-10.  
PMID: 16511381 [PubMed - indexed for MEDLINE]

Internet



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Search MeSH for **otitis** Go Clear

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**MeSH** is NLM's controlled vocabulary used for indexing articles for MEDLINE/PubMed. MeSH terminology provides a consistent way to retrieve information that may use different terminology for the same concepts.

- Use the MeSH database to find MeSH Terms and build a search strategy.

MeSH database tutorials:

- Searching with the MeSH Database **Quick Tour**
- Combining MeSH Terms **Quick Tour**
- Applying Subheadings and other features of the MeSH Database **Quick Tour**

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Protein

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Structure

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otitis

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[Save Search](#)[Limits](#)[Preview/Index](#)[History](#)[Clipboard](#)[Details](#)Suggestions: [Otitis](#); [Otitides](#); [Otipax](#); [Oterna](#); [Otefin](#); [Otter](#); [Otters](#); [Otoline](#); [Otafa](#); [Otolith](#); [more...](#)

Display Summary

Show 20

Send to

All: 6

Items 1 - 6 of 6

Send to

Text

File

Printer

Clipboard

Search Box with AND

Search Box with OR

Search Box with NOT

One page.

 1: [Otitis](#)

Inflammation of the ear, which may be marked by pain, fever, hearing loss, tinnitus, and vertigo. Inflammation of the external ear, OTITIS EXTERNA; of the middle ear, OTITIS MEDIA; of the inner ear, LABYRINTHITIS. (From Dorland, 27th ed)

[Links](#) 2: [Otitis Media with Effusion](#)

Inflammation of the middle ear with a clear pale yellow-colored transudate.  
Year introduced: 1986

[Links](#) 3: [Otitis Media, Suppurative](#)

Inflammation of the middle ear with purulent discharge.  
Year introduced: 1991(1979)

[Links](#) 4: [Otitis Externa](#)

Inflammation of the external auditory canal. (Dorland, 27th ed)

[Links](#) 5: [Otitis Media](#)

Inflammation of the middle ear.  
Year introduced: GRADENIGO'S SYNDROME was see under OTITIS MEDIA 1963-1981, was see OTITIS MEDIA 1982-1992

[Links](#) 6: [Labyrinthitis](#)

Inflammation of the inner ear.  
Year introduced: 1991(1979)

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Address [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=MeshBuildQuery\\_AND&DB=mesh](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=MeshBuildQuery_AND&DB=mesh) Go Links >>

Search MeSH for antibiotics Go Clear [Save Search](#)

Limits Preview/Index History Clipboard Details

"Otitis Media with Effusion" [MeSH]

Search PubMed Clear

Suggestions: [Antibiotics](#); [Lantibiotics](#); [Antibiosis](#); [Antimitotics](#); [Antibioses](#); [Probiotics](#); [Antiseptics](#); [Antiemetics](#); [Antimanics](#); [Antipyretics](#); [more...](#)

Display Summary Show 20 Send to

All: 22

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1: [Anti-Bacterial Agents](#) Links

Substances that reduce the growth or reproduction of Bacteria

Year introduced: 2004(1963)

- Send to
- Text
- File
- Printer
- Clipboard
- Search Box with AND**
- Search Box with OR
- Search Box with NOT

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Search MeSH for antibiotics Go Clear Save Search

Limits Preview/Index History Clipboard Details

"Otitis Media with Effusion"[MeSH] AND "Anti-Bacterial Agents"[MeSH]

Search PubMed Clear

Suggestions: [Antibiotics](#); [Lantibiotics](#); [Antibiosis](#); [Antimitotics](#); [Antibioses](#); [Probiotics](#); [Antiseptics](#); [Antiemetics](#); [Antimanics](#); [Antipyretics](#); [more...](#)

Display Summary Show 20 Send to

All: 22

Items 1 - 20 of 22 Page 1 of 2 Next

1: [Anti-Bacterial Agents](#) Links  
 Substances that reduce the growth or reproduction of BACTERIA.  
 Year introduced: 2004(1963)

Done Internet

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Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&term=%22Otitis+Media+with+Effusion%22%5BMeSH%5D+AN> Go Links

Search PubMed for "Otitis Media with Effusion"[MeSH] AND "Anti-Bacte" Go Clear Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

All: 319 Review: 83

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1: [Rosenblut A, Santolaya ME, Gonzalez P, Borel C, Cofre J.](#) Related Articles, Links  
 Penicillin resistance is not extrapolable to amoxicillin resistance in *Streptococcus pneumoniae* isolated from middle ear fluid in children with acute otitis media.  
*Ann Otol Rhinol Laryngol.* 2006 Mar;115(3):186-90.  
 PMID: 16572607 [PubMed - indexed for MEDLINE]

2: [Harimaya A, Takada R, Hendolin PH, Fujii N, Ylikoski J, Himi T.](#) Related Articles, Links  
 High incidence of *Alloicoccus otitidis* in children with otitis media, despite treatment with antibiotics.  
*J Clin Microbiol.* 2006 Mar;44(3):946-9.  
 PMID: 16517881 [PubMed - indexed for MEDLINE]

3: [Ingels K, Rovers MM, van der Wilt GJ, Zielhuis GA.](#) Related Articles, Links  
 Ventilation tubes in infants increase the risk of otorrhoea and antibiotic usage.  
*B-ENT.* 2005;1(4):173-6.  
 PMID: 16429748 [PubMed - indexed for MEDLINE]

4: [Hunt A, Robb PJ.](#) Related Articles, Links

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Search PubMed for "Otitis Media with Effusion"[MeSH] AND "Anti-Bacte" Go Clear [Save Search](#)

Limits Preview/Index History Clipboard **Details**

**Query Translation:**

```
"Otitis Media with Effusion"[MeSH] AND "Anti-Bacterial Agents"[MeSH]
```

Search URL

**Result:**

[319](#)

**Database:**

PubMed

Done Internet

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Search PubMed for "[Otitis Media with Effusion][MeSH] AND "Anti-Bacte" Go Clear Save Search

Limits Preview/Index History Clipboard Details

Limits: All Child: 0-18 years, English, published in the last 5 years, Clinical Trial, Humans

Display Summary Show 20 Sort by Send to

All: 9 Review: 0

Items 1 - 9 of 9 One page.

1: [Rosenblut A, Santolaya ME, Gonzalez P, Borel C, Cofre J.](#) Related Articles, Links  
Penicillin resistance is not extrapolable to amoxicillin resistance in Streptococcus pneumoniae isolated from middle ear fluid in children with acute otitis media.  
Ann Otol Rhinol Laryngol. 2006 Mar;115(3):186-90.  
PMID: 16572607 [PubMed - indexed for MEDLINE]

2: [Ingels K, Rovers MM, van der Wilt GJ, Zielhuis GA.](#) Related Articles, Links  
Ventilation tubes in infants increase the risk of otorrhoea and antibiotic usage.  
B-ENT. 2005;1(4):173-6.  
PMID: 16429748 [PubMed - indexed for MEDLINE]

3: [Soley C, Arguedas A, Porras W, Guevara S, Loaiza C, Perez A, Rincon G, Schultz M, Arguedas J, Brilla R.](#) Related Articles, Links  
In vitro activities of levofloxacin and comparable agents against middle ear fluid, nasopharyngeal, and oropharyngeal pathogens obtained from Costa Rican children with recurrent otitis media or failing other antibiotic therapy.  
Antimicrob Agents Chemother. 2005 Jul;49(7):3056-8.

4: [Le Saux N, Gaboury I, Baird M, Klassen TP, MacCormick J, Blanchard C, Pitters C, Sampson M, Moher D.](#) Related Articles, Links  
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 A randomized, double-blind, placebo-controlled noninferiority trial of amoxicillin for clinically diagnosed acute otitis media in children 6 months to 5 years of age. *CMAJ*. 2005 Feb 1;172(3):335-41. PMID: 15684116 [PubMed - indexed for MEDLINE]

2: [Sarrell EM, Cohen HA, Kahan E.](#) [Related Articles](#), [Links](#)

 Naturopathic treatment for ear pain in children. *Pediatrics*. 2003 May;111(5 Pt 1):e574-9. PMID: 12728112 [PubMed - indexed for MEDLINE]

3: [Mandel EM, Casselbrant ML, Rockette HE, Bluestone CD, Kurs-Lasky M.](#) [Related Articles](#), [Links](#)

 Efficacy of 20- versus 10-day antimicrobial treatment for acute otitis media. *Pediatrics*. 1995 Jul;96(1 Pt 1):5-13. PMID: 7596722 [PubMed - indexed for MEDLINE]

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1: [Friedman NR, McCormick DP, Pittman C, Chonmaitree T, Teichgraeber DC, Uchida T, Baldwin CD, Saeed KA.](#) [Related Articles, Links](#)

 Development of a practical tool for assessing the severity of acute otitis media.  
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 Development of a practical tool for assessing the severity of acute otitis media. *Pediatr Infect Dis J.* 2006 Feb;25(2):101-7. PMID: 16462284 [PubMed - indexed for MEDLINE]

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2: [Vaile L, Williamson T, Waddell A, Taylor G.](#) Related Articles, Links  
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Evidence assessment of management of acute otitis media: I. The role of antibiotics in treatment of uncomplicated acute otitis media.  
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## Evidence assessment of management of acute otitis media: I. The role of antibiotics in treatment of uncomplicated acute otitis media.

[Takata GS](#), [Chan LS](#), [Shekelle P](#), [Morton SC](#), [Mason W](#), [Marcy SM](#).

Division of General Pediatrics, Childrens Hospital, Los Angeles, California 90027, USA.  
[gtakata@chla.usc.edu](mailto:gtakata@chla.usc.edu)

CONTEXT: In 1995, >5 million episodes of acute otitis media (AOM) accounted for \$3 billion in health care expenditures. OBJECTIVES: To synthesize the literature on the natural history of AOM, the effectiveness of antibiotic treatment in uncomplicated AOM, and the relative effectiveness of specific antibiotic regimens. DATA SOURCES: Seven electronic databases for articles published between 1966 and March 1999 and reference lists in proceedings, published articles, reports, and guidelines. STUDY SELECTION: Two physicians independently assessed each article. Studies addressing AOM in children 4 weeks to 18 years old were included; those addressing children with immunodeficiencies or craniofacial abnormalities were excluded. Randomized, controlled trials (RCTs) were used to assess antibiotic effectiveness, and RCTs and cohort studies were used to assess the natural history of AOM. Among the 3491 citations identified, 80 (2.3%) met our inclusion criteria. DATA EXTRACTION: Two physicians independently abstracted data and assessed the quality of studies using a validated scale for RCTs and 8 quality components for cohort studies. DATA SYNTHESIS: Random-effects estimates of pooled absolute rate differences of outcomes were derived, and heterogeneity of both the rates and rate differences was assessed. Children with AOM not treated with antibiotics experienced a 1- to 7-day clinical failure rate of 19% (95% confidence interval: 0.10-0.28) and few suppurative complications. When patients were treated with amoxicillin, the 2- to 7-day

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 Prevalence of asymptomatic bacteriuria in pregnant women in Sharjah, United Arab Emirates.  
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1: [Devauchelle-Pensec V, Berthelot JM, Jousse S, Sanjee I, Josseaume T, Colin D, Chales G, Le Henaff C, Thorel JB, Hoang S, Martin A, Youinou P, Le Goff P, Saraux A.](#) Links  
 Performance of Hand Radiographs in Predicting the Diagnosis in Patients with Early Arthritis. *J Rheumatol.* 2006 Jun 15; [Epub ahead of print]  
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2: [de M S Amaral JA, Tamada RS, Issler CK, Caetano SC, Cerri GG, de Castro CC, Lafer B.](#) Links  
 A (1)HMRS study of the anterior cingulate gyrus in euthymic bipolar patients. *Hum Psychopharmacol.* 2006 Jun 16;21(4):215-220 [Epub ahead of print]  
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3: [de Castro Rodrigues A, Andreo JC, de Mattos Rodrigues SP.](#) Links  
 Myonuclei and satellite cells in denervated rat muscles: An electron microscopy study. *Microsurgery.* 2006 Jun 16; [Epub ahead of print]  
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The National Congenital Anomalies Register in the United Arab Emirates.  
East Mediterr Health J. 2005 Jul;11(4):690-9.  
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East Mediterr Health J. 2005 Jul;11(4):673-9.  
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3: [Al-Gazali LI, Alwash R, Abdulrazzaq YM.](#) Related Articles, Links

Internet

In adult patients with osteoarthritis are COX2 inhibitors compared to traditional NSAID more effective in controlling pain?

| POPULATION                                       | INTERVENTION                                                              | COMPARISON                                                | OUTCOME                          |
|--------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------|
| Osteoarthritis<br>OR<br>Osteoarthritis<br>[MeSH] | NSAID<br>AND<br>OR<br>Antiinflammatory<br>Agents, Non-<br>Steroidal[MeSH] | COX2 inhibitors<br>AND<br>OR<br>COX2-<br>Inhibitors[MeSH] | Pain control<br>OR<br>Pain[MeSH] |



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Current status of the therapeutic uses and actions of the preferential cyclo-oxygenase-2 NSAID, nimesulide. *Inflammopharmacology*. 2006 Aug;14(3-4):120-37. Review. PMID: 16983492 [PubMed - indexed for MEDLINE]

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Prostacyclin antagonism reduces pain and inflammation in rodent models of hyperalgesia and chronic arthritis. *J Pharmacol Exp Ther*. 2006 Dec;319(3):1043-50. Epub 2006 Sep 14. PMID: 16973887 [PubMed - indexed for MEDLINE]

3: [Hunter DJ, Felson DT.](#) Related Articles, Links  
Osteoarthritis. *BMJ*. 2006 Mar 18;332(7542):639-42. Review. No abstract available. PMID: 16543327 [PubMed - indexed for MEDLINE]

13: [Bjordal JM, Ljunggren AE, Klovning A, Stordal L.](#) Related Articles, Links  
Non-steroidal anti-inflammatory drugs, including cyclo-oxygenase-2 inhibitors, in osteoarthritic knee pain: meta-analysis of randomised placebo controlled trials. *BMJ*. 2004 Dec 4;329(7478):1317. Epub 2004 Nov 23. Review. PMID: 15561731 [PubMed - indexed for MEDLINE]

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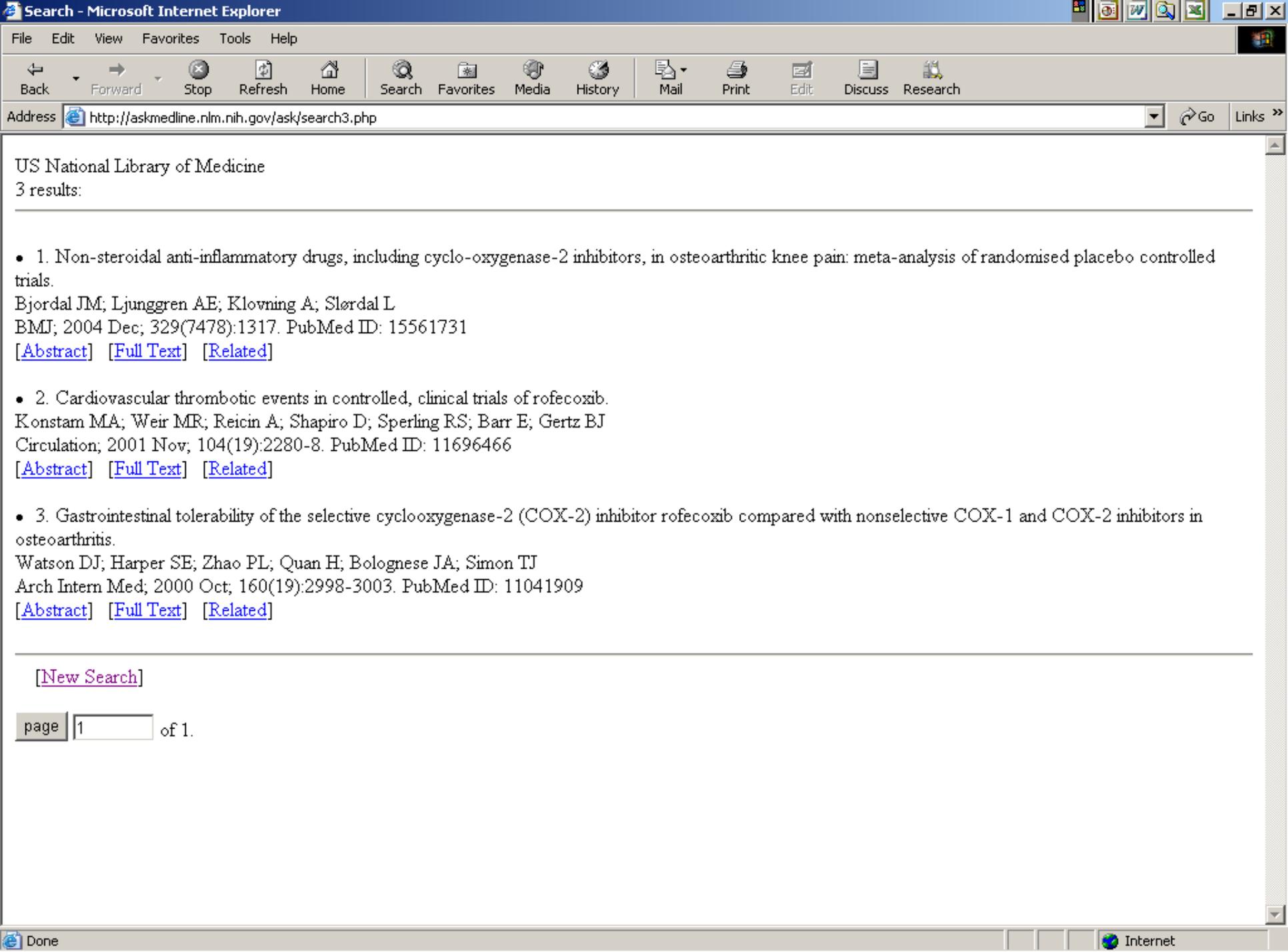
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- 2. Cardiovascular thrombotic events in controlled, clinical trials of rofecoxib.

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Watson DJ; Harper SE; Zhao PL; Quan H; Bolognese JA; Simon TJ  
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