

# Evidence-Based Practice:

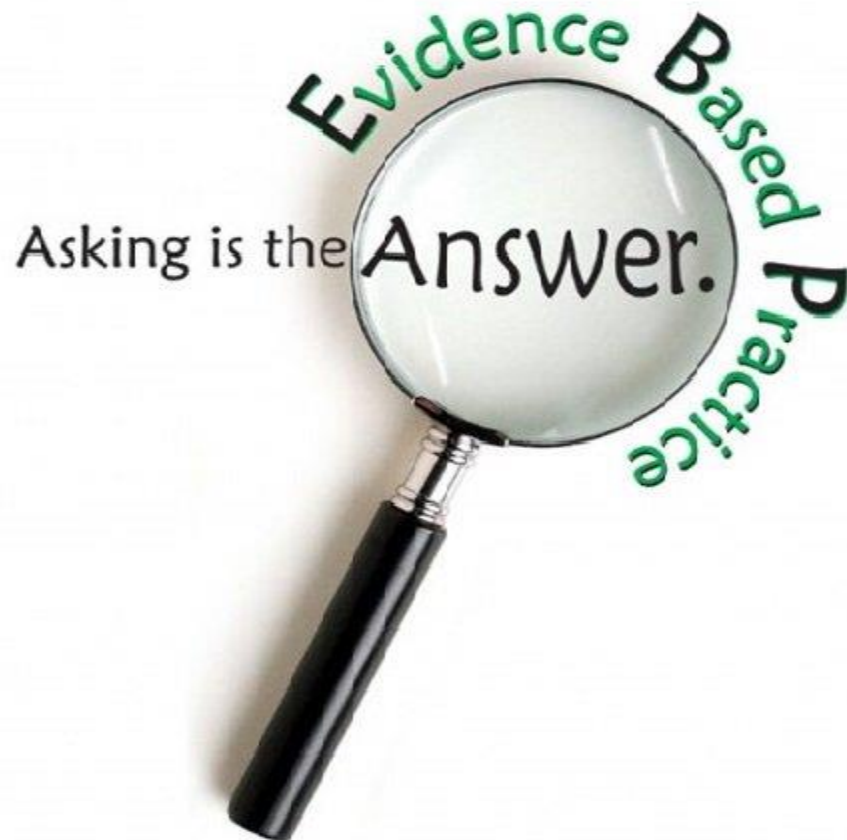
Masoud Mohammadi

Health information specialist

Mohammadi.msd84@gmail.com

# Evidence-Based Practice (EBP)

- Process by which health care providers know how to find, critically appraise, and use the best evidence



# Why Evidence-Based Practice (EBP) ??

Health care delivery is filled with uncertainty and many questions arise in every day practice...

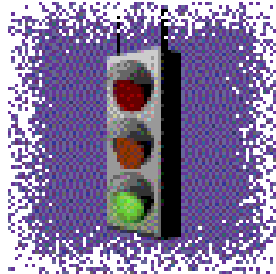
- What kind of guidance would be most helpful to my patients?
- What clinical assessments and interventions are of the most benefit?



# Common questions that arise in everyday practice:

- Which combination and sequence of treatments is most effective?
- Which patient symptoms predict better or worse outcomes?
- What is the experience of illness for a patient with this diagnosis?
- Which treatment is most effective and will produce the best patient outcome?
- If a diagnosis is left untreated, what might be the outcome?

# Evidence to Support Best Practices is Constantly Changing



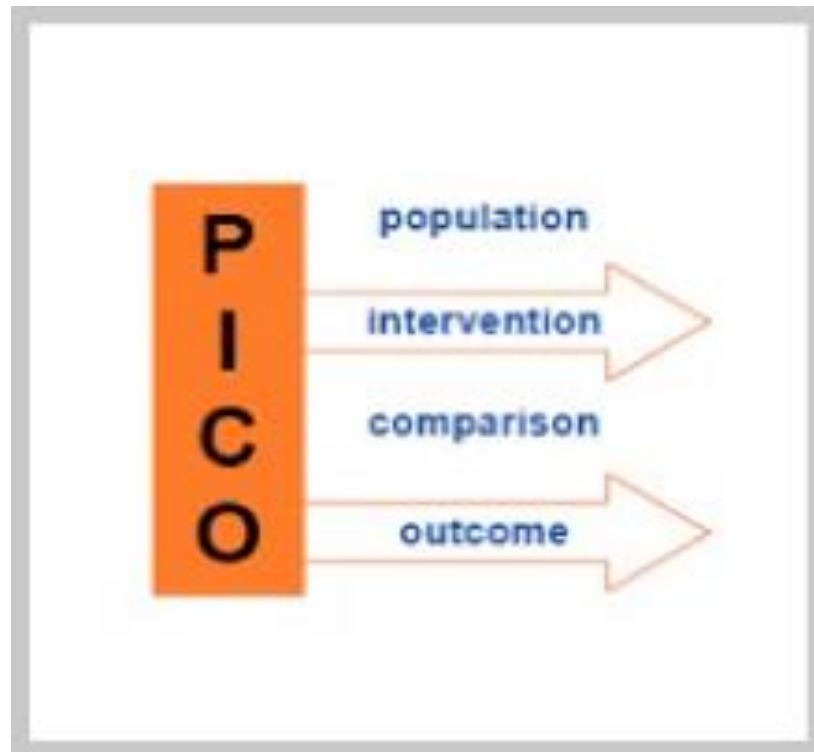
# Formulating the Clinical Question

- The “PICO” format is used to construct the clinical question specifically
- Using PICO format helps you find a needle in a hay stack of research information



# PICO Format

- Patient Population
- Intervention of Interest
- Comparison intervention or status
- Outcome



# Patient/Population/Problem

- Consideration of the patient and population of interest
- Limit to age group or subgroup if possible





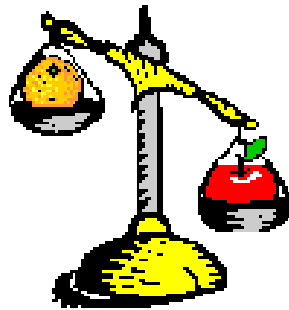
# Intervention

- Exposure
- Treatment
- Patient perception
- Diagnostic test



# Comparison

- Could be true control, such as placebo or doing nothing
- Could be another treatment
- Sometimes it is the usual standard of care



# Outcome

- Outcome may be very specific, e.g. death
- Outcome may be something that has a variety of measures, e.g. dehydration could be a measure, also tachycardia, dry mouth, fever, restlessness and irritability

# PICO format example

- Are 35 to 55 year-old women (p) who have high blood pressure (I) at increased risk for acute myocardial infarction (O) compared with women without hypertension (C)

# Rating System for Evidence

- Level I: evidence from systematic review, randomized control trials (RCTs), or evidence-based reviews
- Level II: evidence from one well-designed RCT
- Level III: evidence from well-designed studies without randomization
- Level IV: evidence from other types of studies including case-control and cohort studies
- Level V: evidence from systematic reviews of descriptive and qualitative studies
- Level VI: evidence from one descriptive or qualitative study
- Level VII: evidence from the opinion of authorities and/or reports of expert committees

# Evidence Based Medicine Databases

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- ❑ PubMed
- ❑ Cochrane Library
- ❑ Clinical Evidence
- ❑ Embase
- ❑ Ovid
- ❑ UpToDate

# Clinical Queries

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- From the Clinical Queries page you can search by a clinical study category, **find systematic reviews** and run medical genetics searches.

- **The clinical study categories** use built-in search filters that will limit retrieval to citations to articles reporting research conducted with specific methodologies, including those that report applied clinical research. To find citations for a specific clinical study category:

1. Click **Clinical Queries** from the PubMed homepage or from the advanced search more resources menu.
2. Enter your search terms in the search box, and then click search.
3. You may then change the category or scope, if desired.





## PubMed

PubMed comprises more than 24 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

## PubMed Commons



### Featured comment - May 11

Improving QI? Univ of Kansas School of Nursing Journal Club discusses clinical staff engagement with quality measures

[1.usa.gov/1bikMEg](http://1.usa.gov/1bikMEg)

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You are here: NCBI > Literature > PubMed

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http://www.ncbi.nlm.nih.gov/pubmed/clinical

NCBI Resources How To Sign in to NCBI

## PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use [PubMed](#) directly.

### Clinical Study Categories

This column displays citations filtered to a specific clinical study category and scope. These search filters were developed by [Haynes RB et al.](#) See more [filter information](#).

### Systematic Reviews

This column displays citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conference, and guidelines. See [filter information](#) or additional [related sources](#).

### Medical Genetics

This column displays citations pertaining to topics in medical genetics. See more [filter information](#).

You are here: NCBI > Literature

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- NCBI Help Manual
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- Training & Tutorials

#### NCBI INFORMATION

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- Research at NCBI
- NCBI News
- NCBI FTP Site
- NCBI on Facebook
- NCBI on Twitter
- NCBI on YouTube

Insert your query here

Genes & Expression	BLAST	Gene Expression Omnibus
Genetics & Medicine	Nucleotide	Map Viewer
Genomes & Maps	Genome	Human Genome
Homology	SNP	Mouse Genome
Literature	Gene	Influenza Virus
Proteins	Protein	Primer-BLAST
Sequence Analysis	PubChem	Sequence Read Archive
Taxonomy		
Training & Tutorials		

Find: clinical q Next Previous Highlight all Match case

09:35 ۲۰۱۵/۰۵/۰۵

# PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use [PubMed](#) directly.

(Bowel cancer OR colorectal neoplasm) AND (Screen\* OR early detection) AND (Death OR Mortality OR Survival)

Search

## Clinical Study Categories

## Systematic Reviews

## Medical Genetics

### Clinical Study Categories

Category:

Scope:

Results: 5

Meta-analysis, comparing chewing gum versus standard of care for colorectal cancer: a population-based study.

Harlos CH, Singh H, Nugent Z, Demers A, Mahmud SM, Czaykowski PM.  
Curr Oncol. 2016 Dec; 23(6):391-397. Epub 2016 Dec 21.

Using Specialist Screening Practitioners (SSPs) to increase uptake of the Bowel Scope (Flexible Sigmoidoscopy) Screening Programme: a study protocol for a feasibility single-stage phase II trial.

McGregor LM, Skrobanski H, Miller H, Ritchie M, Berkman L, Morris S, Rees C, von Wagner C.  
Pilot Feasibility Stud. 2016 Sep 14; 2:54. Epub 2016 Sep 14.

Assessing Colorectal Cancer Screening Barriers by Two Methods.

Katz ML, Young GS, Zimmermann BJ, Tatum CM, Paskett ED.  
J Cancer Educ. 2016 Dec 8; . Epub 2016 Dec 8.

Screening for Colorectal Cancer and Evolving Issues for

: 5 of 319

g for Colorectal Cancer and Evolving Issues for Physicians and Patients: A Review.

Lieberman D, Ladabaum U, Cruz-Correa M, Ginsburg C, Inadomi JM, Kim LS, Giardiello FM, Wender RC.  
JAMA. 2016 Nov 22; 316(20):2135-2145.

Antecolic versus retrocolic reconstruction after partial pancreaticoduodenectomy.

Hüttner FJ, Klotz R, Ulrich A, Büchler MW, Diener MK.  
Cochrane Database Syst Rev. 2016 Sep 30; 9:CD011862. Epub 2016 Sep 30.

The effectiveness of FOBT vs. FIT: A meta-analysis on colorectal cancer screening test.

Mousavinezhad M, Majdzadeh R, Akbari Sari A, Delavari A, Mohtasham F.  
Med J Islam Repub Iran. 2016 May 9; 30:366. Epub 2016 May 9.

Screening for Colorectal Cancer: A Systematic Review for the U.S. Preventive Services Task Force

Topic: All

Results: 5 of 1192

Modeling the prevention of colorectal cancer from the combined impact of host and behavioral risk factors.

Frampton M, Houlston RS.  
Genet Med. 2016 Aug 4; . Epub 2016 Aug 4.

A combinatorial strategy for treating KRAS-mutant lung cancer.

Manchado E, Weissmueller S, Morris JP 4th, Chen CC, Wullenkord R, Lujambio A, de Stanchina E, Poirier JT, Gainor JF, Corcoran RB, et al.  
Nature. 2016 Jun 30; 534(7609):647-51.

Blood-Based Screening for Colon Cancer: A Disruptive Innovation or Simply a Disruption?

Parikh RB, Prasad V.  
JAMA. 2016 Jun 21; 315(23):2519-20.

Screening for Colorectal Cancer: US Preventive Services Task Force Recommendation Statement.

US Preventive Services Task Force., Bibbins-Domingo K, Grossman DC,



**Cochrane**  
Library

# The Cochrane Library

- **Cochrane Systematic reviews :** Cochrane reviews and protocols
- **Database of Reviews of Effects (DARE):** Other systematic reviews appraised by the Centre for Reviews and Dissemination.
- **Cochrane Central Register of Controlled Trials:**  
Bibliography of controlled trials (some not indexed in MEDLINE).
- **Health Technology Assessment Database:** HTA reports
- **NHS Economic evaluation database:**  
Economic evaluations of health care interventions.

# Searching Evidence In Cochrane

The screenshot shows the Cochrane Library homepage. At the top left is the Cochrane Library logo, consisting of a stylized 'C' with a vertical line through it, followed by the text 'Cochrane Library'. To the right of the logo is the tagline: 'Trusted evidence. Informed decisions. Better health.' On the top right is a search bar with the placeholder text 'Search title, abstract, keyword' and a magnifying glass icon. Below the search bar are two buttons: 'Browse' and 'Advanced Search'. A purple navigation bar spans the width of the page, containing the following links: 'Cochrane Reviews', 'Trials', 'More Resources', 'About', and 'Help'. A dropdown menu is open under 'Cochrane Reviews', listing the following options: 'About the CDSR', 'Search CDSR', 'Browse by Topic', 'Browse by Review Group', 'Editorials', 'Table of contents', 'Special Collections', 'Cochrane Supplements', and 'Cochrane Library iPad Edition'. Three yellow callout boxes with arrows point to specific items in the dropdown menu: '1- Advanced Search CDSR' points to 'Search CDSR', '2-Browse By 34 Topics' points to 'Browse by Topic', and '3- Browse by 52 Cochrane Review Groups' points to 'Browse by Review Group'. The background of the page features a woman in a yellow shirt sitting at a desk with a computer and a telephone. At the bottom of the page, there are two featured articles. The first article is titled 'Automated telephone communication systems For prevention and management of long-term conditions' and includes a 'Read the review' link. The second article is titled 'Migrant health' and includes a 'Read the Special Collection' link. To the right of the 'Migrant health' article is a smaller image of children sitting at a table, with the text 'Nutrition: call to action' and a 'Read the editorial' link.

**Cochrane Library**  
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Informed decisions.  
Better health.

Search title, abstract, keyword

Browse Advanced Search

Cochrane Reviews ▾ Trials ▾ More Resources ▾ About ▾ Help ▾

About the CDSR  
Search CDSR  
Browse by Topic  
Browse by Review Group  
Editorials  
Table of contents  
Special Collections  
Cochrane Supplements  
Cochrane Library iPad Edition

**1- Advanced Search CDSR**

**2-Browse By 34 Topics**

**3- Browse by 52 Cochrane Review Groups**

**Automated telephone communication systems**  
For prevention and management of long-term conditions  
Read the review →

**Nutrition: call to action**  
Read the editorial →

**Migrant health**  
Read the Special Collection →



**Browse By 34 Topics**

Cochrane Reviews ▾

Trials ▾

More Resources ▾

## Browse by Topic

A

**Allergy & intolerance**

C

Cancer

Child health

Complementary &  
alternative medicine

Consumer &  
communication strategies

D

Dentistry & oral health

Developmental,  
psychosocial & learning  
problems

Diagnosis

E

Ear, nose & throat

Effective practice & health  
systems

Endocrine & metabolic

Eyes & vision

H

Health & safety at work

Heart & circulation

I

Infectious disease

K

Kidney disease

L

Lungs & airways

M

Mental health

Methodology

N

Neonatal care

Neurology

O

Orthopaedics & trauma

R

Rheumatology

S

Skin disorders

T

Tobacco, drugs & alcohol

U

Urology

W

Wounds

34 Topic



Allergy & intolerance

Narrow your results

Topic

Date

Cochrane Review Group

- ☐ Airways Group (15)
- ☐ Anaesthesia, Critical and  
Emergency Care Group (4)
- ☐ Consumers and

Type

- ☐ Diagnostic (8)
- ☐ Intervention (543)
- ☐ Overview (3)

show more (6)

- ☐ Intervention (72)

Deanne M Hewson, Thomas Piatts-Mills  
Online Publication Date: January 2015

...a  
...my-Louise Bridgman

25 per page

Sort by: Date: Newest First

chopulmonary aspergillosis in people with cystic

airwa  
15  
vention

Commented

Conclusions changed

or treatment of feeding intolerance in very low

Diagnostic

am ALOsaimi, Khalid AlFaleh  
015

Intervention

thma  
w, Amy-Louise Bridgman

New

New search

al n-3 long chain polyunsaturated fatty acids  
reventing allergies in early childhood  
Carmel T Collins

Overview

Protocol

st cell stabilisers for treating seasonal and perennial

Review

hammad Z Mustafa, Mohammed S Mustafa, Augusto

avoidance measures for treating eczema  
Robert J Boyle, Lesley Rushton, Hywel C Williams,



**Browse by 52 Cochrane  
Review Groups**

# Browse by Cochrane Review Group

Browse the *Cochrane Database of Systematic Reviews* by Cochrane Review Group...

A

## Acute Respiratory Infections Group

Anaesthesia, Critical and Emergency Care Group

B

Back and Neck Group

Bone, Joint and Muscle Trauma Group

Breast Cancer Group

C

Childhood Cancer Group

Colorectal Cancer Group

Common Mental Disorders Group

Consumers and Communication Group

Cystic Fibrosis and Genetic Disorders Group

D

Dementia and Cognitive Improvement Group

Developmental, Psychosocial and Learning Problems Group

Drugs and Alcohol Group

E

Effective Practice and Organisation of Care Group

ENT Group

Epilepsy Group

Eyes and Vision Group

F

Fertility Regulation Group

Group

H

Haematological Malignancies Group

Heart Group

Hepato-Biliary Group

HIV/AIDS Group

Hypertension Group

I

IBD Group

Incontinence Group

Infectious Diseases Group

Injuries Group

K

Kidney and Transplant Group

L

Lung Cancer Group

M

Metabolic and Endocrine Disorders Group

Methodology Review Group

Movement Disorders Group

Multiple Sclerosis and Rare Diseases of the CNS Group

Musculoskeletal Group

N

Neonatal Group

Neuromuscular Group

O

Oral Health Group

P

Pain, Palliative and Supportive Care Group

Pregnancy and Childbirth Group

Public Health Group

S

Schizophrenia Group

Skin Group

STI Group

Stroke Group

T

Tobacco Addiction Group

U

Upper GI and Pancreatic Diseases Group

Urology Group

V

Vascular Group

W

Work Group

Wounds Group

52 Cochrane Review Group

b o

# Acute Respiratory Infections Group

## Narrow your results

Cochrane Review Group

Acute Respiratory Infections Group

## Topic

- Child health (126)
- Complementary & alternative medicine (30)
- Consumer & communication strategies (2)
- Diagnosis (3)
- Ear, nose & throat (40)
- Eyes & vision (1)
- Gastroenterology (2)

show more (3)

## Refine your results

Clear all filters

## Date

Published or updated within the last:

- ☒ All dates (166)
- ☐ 3 months (13)
- ☐ 6 months (17)
- ☐ 1 year (43)
- ☐ 2 years (78)

## Stage

- ☐ Protocol (26)
- ☐ Review (140)

## Type

- ☐ Diagnostic (3)
- ☐ Intervention (163)

## Highlighted Cochrane Review

### Saline nasal irrigation for acute upper respiratory tract infections

David King, Ben Mitchell, Christopher P Williams, Geoffrey KP Spurling

166 matching items

Page: 1 2 3 4 5 6 7 Next

25 per page

Sort by:

Date: Newest First

### Steroids for symptom control in infectious mononucleosis

Emthithal Rezk, Yazan H Nofal, Ammar Hamzeh, Muhammed F Aboujaib, Mohammad A

AlKheder, Muhammad F Al Hammad

Online Publication Date: November 2015

New search

Review

Intervention

### Corticosteroids for the common cold

Gail Hayward, Matthew J Thompson, Rafael Perera, Chris B Del Mar, Paul P Glasziou, Carl

J Heneghan

Online Publication Date: October 2015

New search

Review

Intervention

### Antibiotics for preventing lower respiratory tract infections in high-risk children aged 12 years and under

Igho J Onakpoya, Gail Hayward, Carl J Heneghan

Online Publication Date: September 2015

Review

Intervention



### Strategies for reducing exposure to indoor air pollution from household burning of solid fuels: effects on acute lower respiratory infections in children under the age of 15 years

Deborah Havens, Hannah R Jary, Latifa B Patel, Msandeni E Chiume, Kevin J Mortimer

Online Publication Date: September 2015

Protocol

Intervention

### Non-steroidal anti-inflammatory drugs for the common cold

Soo Young Kim, Yoon-Jung Chang, Hye Min Cho, Ye-Won Hwang, Yoo Sun Moon


Online Publication Date: September 2015

# **Advanced Search CDSR**



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Search	Search Manager	Medical Terms (MeSH)	Browse
<div> <div>+</div> <div>Title, Abstract, Keywords</div> <div>▼</div> </div> <div> <a href="#">Search Limits</a> <a href="#">Search Help</a> </div> <div>Clear</div>	<div>cancer</div> <div> <div>cancer</div> <div>Cancer</div> <div>Cancer antennarius</div> <div>cancer antigen</div> <div>cancer antigen 125</div> <div>cancer antigen 15-3</div> <div>cancer antigen 19-9</div> <div>cancer antigen 27.29</div> <div>cancer associated fibroblast</div> <div>cancer associated fibroblasts</div> <div>cancer associated retinopathies</div> <div>cancer associated retinopathy</div> <div>cancer associated serum antigen</div> <div>Cancer borealis</div> <div>Cancer branneri</div> <div>cancer care</div> <div>cancer care facilities</div> <div>cancer care facility</div> <div>cancer care unit</div> <div>cancer cell</div> <div>cancer chemotherapeutic drug</div> <div>cancer coagulation factor</div> <div>cancer colli uteri</div> </div>	<div>Go</div> <div>Save</div> <div> <a href="#">Add to Search Manager</a> </div>	<div> <a href="#">Publications</a> <a href="#">About us</a> <a href="#">Help</a> </div> <div> <a href="#">Terms &amp; Conditions</a> <a href="#">Site Map</a> </div>



Search

Search Manager

Medical Terms (MeSH)

Browse

+

Title, Abstract, Keywords

▼

Search All Text

Record Title

Author

Abstract

Keywords

Title, Abstract, Keywords

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## Search limits

## Database

- ☐ Cochrane Reviews
- ☒ All
- ☐ Review
- ☐ Protocol
- ☐ Other Reviews
- ☐ Trials
- ☐ Methods Studies
- ☐ Technology Assessments
- ☐ Economic Evaluations

## Status

Limit search to the following

- ☐ New (all products,

For Cochrane Reviews only

- ☐ New Search
- ☐ Conclusions Changed
- ☐ Major Change
- ☐ Commented

## Cochrane Review Group

Choose review group

## Dates

## Publication Year (available for all databases)

Year (YYYY) the article was originally published

\*\*For Cochrane Reviews, this is the year of the last update

- ☒ All Years
- ☐ Between  and

Or

## Cochrane Library Online Publication Date

Date the article was added (or last updated) on the Cochrane Library

\*\*Available for Cochrane Reviews only

- ☐ All Dates
- ☐ In the last
- ☐ Between   and

Apply

Clear

☐ Word variations will not be searched (e.g. "paid" will not find pay, pays, paying, payed)

## All Results (358)

### ☒ Cochrane Reviews (11)

☒ All

☐ Review

☐ Protocol

**Me** Methodology

**Dx** Diagnostic

**Ov** Overview

**Pg** Prognosis

**Qu** Qualitative

**Cc** Conclusions changed

**Ns** New search

**Mc** Major change

**Up** Update

**Wd** Withdrawn

**Cm** Comment

Journal of Systematic Reviews : Issue 11 of 12, November 2015

ly throughout month

ts from 9132 records for your search on #1 - "cancer care" in Title, Abstract, Keywords in Cochrane  
category currently being edited

Sort by Relevance: high to low ▼

rt all | Export selected

on interventions for orienting patients and their carers to cancer care facilities

d J Chan , Joan Webster and Louise Marquart

Publication Date: December 2011

Review

ication skills training for healthcare professionals working with people who have cancer

M Moore , Solange Rivera Mercado , Mónica Grez Artigues and Theresa A Lawrie

Publication Date: March 2013

Review

tions to improve continuity of care in the follow-up of patients with cancer

Aubin , Anik Giguère , Mélanie Martin , René Verreault , Margaret I. Fitch , Arminée Kazanjian and Pierre-Hugues  
rael

Publication Date: July 2012

Review

sation of services for gynaecological cancer

Woo , Maria Kyrgiou , Andrew Bryant , Thomas Everett and Heather O Dickinson

Publication Date: March 2012

Review

ovement therapy for improving psychological and physical

adt , Minjung Shim and Sherry W Goodill

Publication Date: January 2015

Ns

Review



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## Search

Carcinoma, Hepatocellular

## MeSH trees

MeSH term - Carcinoma, Hepatocellular

- ☒ [Explode all tree](#)
- ☐ [Single MeSH term](#)
- ☐ [Explode selected](#)

Selected trees

☒ **Tree Number 1**

[Neoplasms \[+16\]](#)

[Neoplasms by Histologic Type](#)

[Neoplasms, Glandular and Epithelial](#)

[Carcinoma \[+16\]](#)

[Adenocarcinoma](#)

[Adenocarcinoma](#)

[Carcinoid Tumors](#)

[Adenocarcinoma](#)

[Alveolar](#)

[Carcinoma, Infiltrating](#)

[Noninfiltrating](#)

[Adenocarcinoma](#)

[Carcinoma, Rhabdoid](#)

[Adenocarcinoma](#)

## Definition

**Carcinoma, Hepatocellular** - A primary

## Phrase Matches

**Carcinoma, Hepatocellular**

Synonyms: Liver Cell Carcinoma; Liver Cancer, Adult; Adult Liver Cancers; Cancer, Adult Liver; Liver; Liver Cancers, Adult; Carcinoma; Carcinoma, Liver; Carcinomas, Liver Cell; Cell Carcinomas, Liver; Liver Carcinomas.

## Any Word Match

**Carcinoma, Hepatocellular**

Synonyms: Liver Cell Carcinoma; Liver Cancer, Adult; Adult Liver Cancers; Cancer, Adult Liver; Liver; Liver Cancers, Adult; Carcinoma; Carcinoma, Liver; Carcinomas, Liver Cell; Cell Carcinomas, Liver; Liver Carcinomas.

## Search results

There are **1190** results for your search on

- MeSH descriptor: [Carcinoma, Hepatocellular]
- explode all trees

[Update Search Manager](#)

Cochrane Reviews 9

Other Reviews 281

Trials 804

Methods Studies 0

Technology Assessments 29

Economic Evaluations 67

Cochrane C

[View Results](#)

[Search](#)[Search Manager](#)[Medical Terms \(MeSH\)](#)[Browse](#)[Lookup](#)[Clear](#)[Search Help](#)

## Definition

**Carcinoma, Hepatocellular** - A primary malignant neoplasm of epithelial liver cells. It ranges from a well-differentiated tumor with EPITHELIAL CELLS indistinguishable from normal HEPATOCYTES to a poorly differentiated neoplasm. The cells may be uniform or markedly pleomorphic, or form GIANT CELLS. Several classification schemes have been suggested.

## Thesaurus matches

### Exact Term Match

#### **Carcinoma, Hepatocellular**

Synonyms: Adult Liver Cancer; Adult Liver Cancers.

### Phrase Matches

#### **Carcinoma, Hepatocellular**

Synonyms: Liver Cell Carcinoma, Adult; Liver Cancer, Adult; Adult Liver Cancer; Adult Liver Cancers; Cancer, Adult Liver; Cancers, Adult Liver; Liver Cancers, Adult; Liver Cell Carcinoma; Carcinoma, Liver Cell; Carcinomas, Liver Cell; Cell Carcinoma, Liver; Cell Carcinomas, Liver; Liver Cell Carcinomas.

### Any Word Match

#### **Carcinoma, Hepatocellular**

Synonyms: Liver Cell Carcinoma, Adult; Liver Cancer, Adult; Adult Liver Cancer; Adult Liver Cancers; Cancer, Adult Liver; Cancers, Adult Liver; Liver Cancers, Adult; Liver Cell Carcinoma; Carcinoma, Liver Cell;

## MeSH trees

MeSH term - C

- ☒ Explode all  
☐ Single MeSH term (unexploded)  
☐ Explode selected trees

[Select](#)

Use the checkbox next to each tree to explode selected trees

### ☒ Tree Number 1

#### Neoplasms [+16]

##### Neoplasms by Histologic Type [+14]

##### Neoplasms, Glandular and Epithelial [+10]

##### Carcinoma [+16]

##### Adenocarcinoma [+30]

##### Adenocarcinoma, Papillary [+1]

##### Carcinoid Tumor [+1]

##### Adenocarcinoma, Bronchiolo-Alveolar

##### Carcinoma, Intraductal, Noninfiltrating [+1]

##### Adenocarcinoma, Mucinous

##### Carcinoma, Renal Cell

##### Adenocarcinoma, Scirrhous [+1]

##### Choriocarcinoma [+2]

# Update Search Manager

## Search results

There are **1190** results for your search on

- MeSH descriptor: [Carcinoma, Hepatocellular]
- explode all trees

Other Reviews	281
Trials	804
Methods Studies	0
Technology Assessments	29
Economic Evaluations	67
Cochrane Groups	0

[View Results](#)

[Search](#)[Search Manager](#)[Medical Terms \(MeSH\)](#)[Browse](#)

To search an exact word(s) use quotation marks, e.g. "hospital" finds hospital; hospital (no quotation marks) finds hospital and hospitals; pay finds paid, pays, paying, payed)

[Add to top](#)

#1

"cancer care":ti,ab,kw (Word variations have been searched)



358



Ed

#3

#1 or #2



Ed

1548

[Clear Strategy](#)[Search Help](#)

Highlight orphan lines

Save strategy

Strategy Name

[Save Strategy](#)

Comments

st01

To search an exact word(s) use quotation marks, e.g. "hospital" finds hospital; hospital (no quotation marks) finds hospital and hospitals; pay finds paid, pays, paying, payed)

[Add to top](#)

		#1	"cancer care":ti,ab,kw (Word variations have been searched)		358
		#2	MeSH descriptor: [Carcinoma, Hepatocellular] explode all trees		1190
		#3	<input type="text" value="#1 or #2"/>		:

[Clear Strategy](#)[Search Help](#)☐ Highlight orphan lines

Save existing strategy

Strategy Name

[Save Strategy](#)

Comments

Save as new strategy

New strategy name

[Save as New Strategy](#)

## ▼ Strategy Library (1)

Name



1

st01





# Embase



# Relevant and Accessible Biomedical Information



- Over 30 million abstracts and indices from published, peer-reviewed biomedical literature, in-press publications and conferences are available on Embase. Full-text indexing of drug, disease and medical device data, supported by the Embase thesaurus Emtree, facilitates precise searching.

# Embase Content

- Embase provides unparalleled coverage of the biomedical literature, with 30 million+ records from 8,500+ currently published journals. Embase includes six million+ records and 2,900+ journals that are not covered by MEDLINE. Also, Embase Classic provides access to data going back to 1947.

# As of January 2016, Emtree contains:

- Over 73,000 preferred terms (more than 31,000 for drugs and chemicals)
- Over 310,000 synonyms (more than 190,000 for drugs and chemicals)
- Over 3,000 specific terms for general and medical devices (e.g., endoscopes, catheters, prostheses)
- Several thousand terms for related medical procedures (e.g., endoscopy, catheterization)
- 64 drug subheadings, including 47 routes of administration
- 4 medical device subheadings
- 14 disease subheadings
- 38 check tags for study types, including randomized controlled trial, systematic review, and diagnostic test accuracy study
- Links to over 23,000 CAS registry numbers

# EMBASE vs Medline

## MEDLINE

- USA coverage
- 1950 onwards
- Wide medical coverage
- In process
- MeSH indexing

## EMBASE

- European coverage
- 1974 onwards
- Drug/pharmacology focus
- Updated faster
- EMTREE indexing

30% overlap between the Medline and Embase

## Embase provides the information researchers need to generate high-quality Systematic Reviews

- Dedicated search form for building searches using the **PICO** (Patient, Intervention, Comparison/control, Outcome) framework
- More than 30 million records from over 8,500 journals and 'grey literature' from over 1.9 million conference abstracts
- Coverage of the most important types of evidence, including **randomized controlled trials, controlled clinical trials, Cochrane reviews and meta-analyses**

# Searching in Embase

- PICO
- Quick
- Advanced
- Drug
- Disease
- Device
- Article

Embase®

Search Emtree Journals Results

## Quick Search

Quick PICO PV Wizard Advanced Drug Disease Device Article Authors

Quick search ▼ Search for... e.g. 'heart attack' AND stress

AND ▼	Journal name ▼	e.g. american heart	Q	🗑
AND ▼	Author name ▼	e.g. watson j	Q	🗑
AND ▼	Author's first name ▼	e.g. Mary Jane	Q	🗑

+ Add search field

# Advanced Search

Embase®

Search ▾ Browse ▾ Results My tools ▾ Register Login  (1)

## Search

### Search Tips

#### How do I use this search form?

Type into a text box. The autocomplete function will suggest complete words and phrases from Embase.

To view results click 'Show # results'. The number of results is calculated as you build your search.

To search for a phrase, use single or double quotes around the phrase, e.g. 'heart attack'

#### What is Broad search?

It combines Embase term explosion with free text search in all fields, e.g.

Broad search ▾

Search for... e.g. 'heart attack' AND stress



AND ▾

Author name ▾

e.g. watson j



AND ▾

Journal name ▾

e.g. american heart



+ Add search field

Show 0 results >

Limit to:

☐ Publication years (including):

2016 ▾

to

2016 ▾

## Evidence Based Medicine

☐

Cochrane Review

☐

Controlled Clinical Trial

☐

Systematic Review

☐

Randomized Controlled Trial

☐

Meta Analysis

# PICO Search

Embase®

Find best term



Emtree

- ☐ anatomical concepts
- ☐ biological functions
- ☐ biomedical disciplines, science and art
- ☐ chemical, physical and mathematical phenomena
- ☐ chemicals and drugs
- ☐ diseases
- ☐ geographic names
- ☐ groups by age and sex
- ☐ health care concepts
- ☐ named groups of persons
- ☐ organisms
- ☐ procedures, parameters and devices
- ☐ society and environment
- ☐ types of article or study

Population

|

Intervention

e.g. insulin

Comparison

e.g. placebo

Outcome

e.g. risk

Study design (or miscell

e.g. randomized control

Search ▾ Browse ▾ Results My tools ▾ Register Login 🔔(1)

search strategy



insert your PICO of your query here!

Clear field

Clear field

Clear field

Clear field

Clear field

Define type of study you want!  
Amazing Choice!!



# Using Embase Thesaurus (Emtree)

**Embase®**

Find best term

Find The best term for your query in Emtree

Note: Filling any search line is optional

**Population**  
anatomical concepts /exp

**Intervention**  
e.g. insulin

**Outcome**  
e.g. risk

**Study design (or miscellaneous)**  
e.g. randomized controlled trial

Or browse in Emtree terms to find your subjects

- Emtree
  - anatomical concepts
    - animal structures
      - air sac
      - anal sac
      - animal embryo
      - antenna (organ)
      - anterior byssus retractor muscle
      - avian crop
      - avian stomach
      - beak
      - cecal tonsil
      - comb
      - corpus allatum
      - corpus cardiacum
      - egg shell
      - electric organ
      - exoskeleton
      - experimental animal structures
      - feather
      - fillet (fish)
      - fin (organ)