

PubMed and Beyond: Clinical Resources from the National Library of Medicine

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National Network of Libraries of Medicine,
Middle Atlantic Region

February 12, 2018

Class materials available:

<http://bit.ly/2FMDfsO>

Databases

- PubMed/MEDLINE
- MeSH
- UMLS
- ClinicalTrials.gov
- MedlinePlus
- TOXNET
- Images from the History of Medicine
- Digital Collections
- LocatorPlus
- All NLM Databases & APIs

NLM Musings
FROM THE Mezzanine

NLM Musings from the Mezzanine
Innovations in and insights about health information from the Director of the National Library of Medicine.

- 1
- 2
- 3
- 4

Find, Read, Learn

- Search biomedical literature
- Find medical terminologies
- Search NLM collections
- Read about diseases
- Learn about drugs
- Explore history
- Find a clinical trial
- Use a medical dictionary
- Find free full-text articles

Explore NLM

- About NLM
- Health Information
- Library Catalog & Services
- History of Medicine
- Online Exhibitions & Digital Projects

Research at NLM

- Human Genome Resources
- Biomedical Research & Informatics
- Environmental Health & Toxicology
- Health Services Research & Public Health
- Health Information Technology

NLM for You

- Grants & Funding
- Meaningful Use Tools
- Training & Outreach
- National Network of Medical Libraries
- Regional Activities

News, Events, Videos

- Amanda J. Wilson appointed Head, National Network Coordinating Office, Library Operations, NLM (01/09/17)
- Mark Ziomek appointed Chief, Public Services Division, Library Operations, NLM (01/09/17)
- NLM Director Dr. Patricia Flatley Brennan

“The National Library of Medicine (NLM), on the campus of the National Institutes of Health in Bethesda, Maryland, has been a center of information innovation since its founding in 1836”.

[URL](#) for the National Library of Medicine

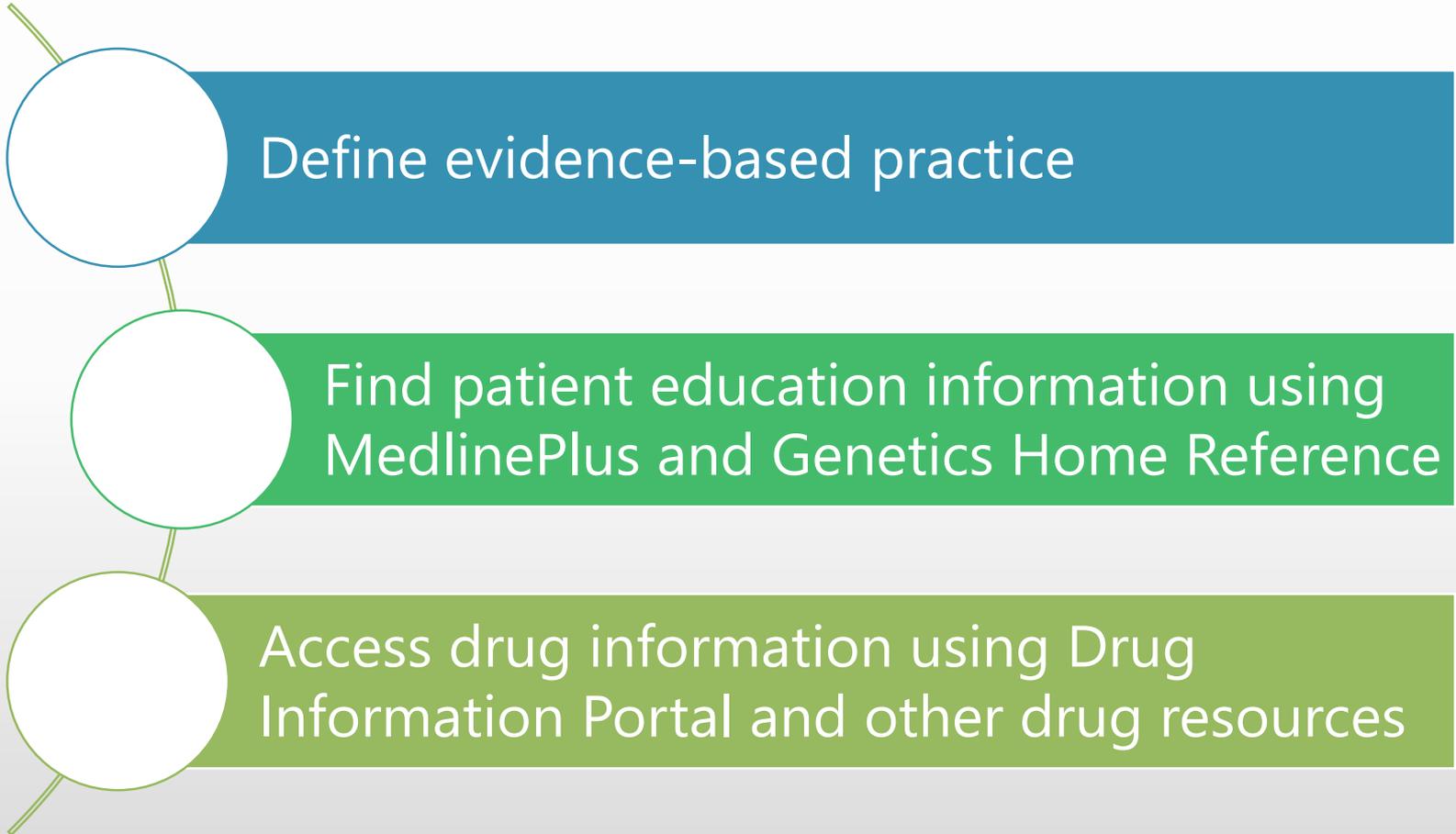
National Network of Libraries of Medicine (NNLM)



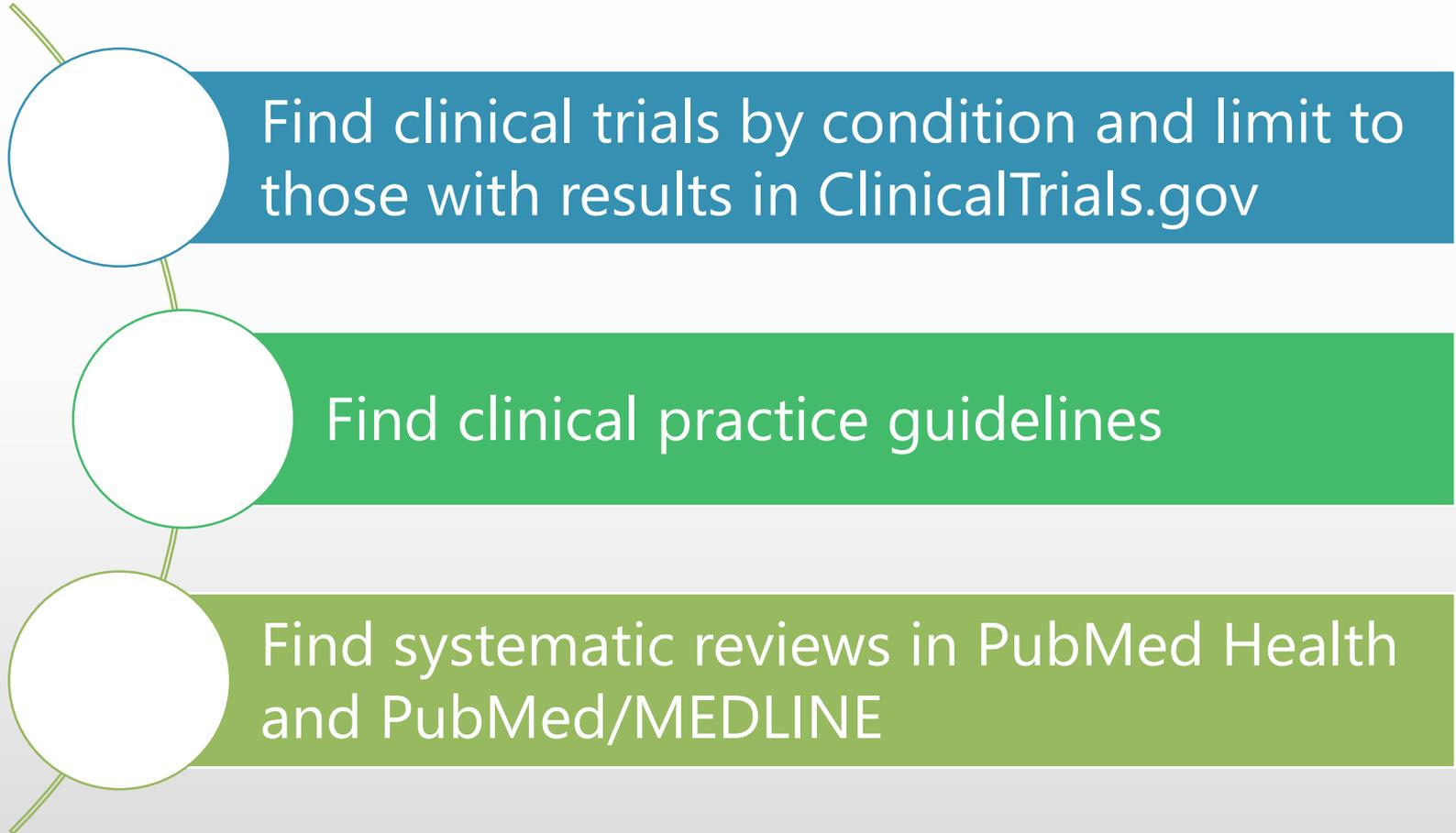
- Trainings
- Funding
- Consultations on resources
- Exhibits

[URL](#) for NNLM

Objectives



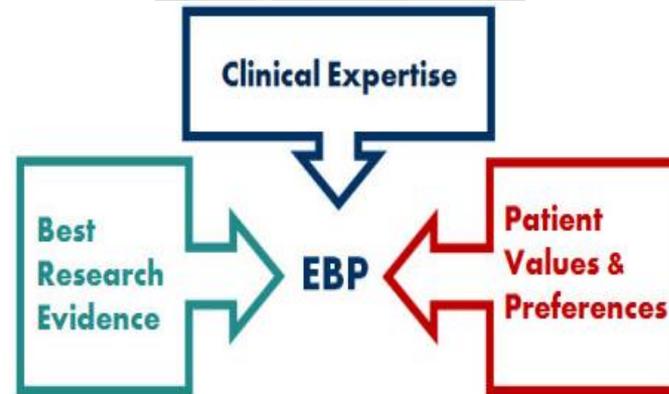
Objectives, continued



Alphabet soup! What does it all mean?



Evidence-Based Practice



Evidence-based medicine

Evidence-based medicine requires the integration of the best research evidence with our clinical expertise and our patient's unique values and circumstances.



Straus SE, et al. *Evidence-based medicine*. 2005.

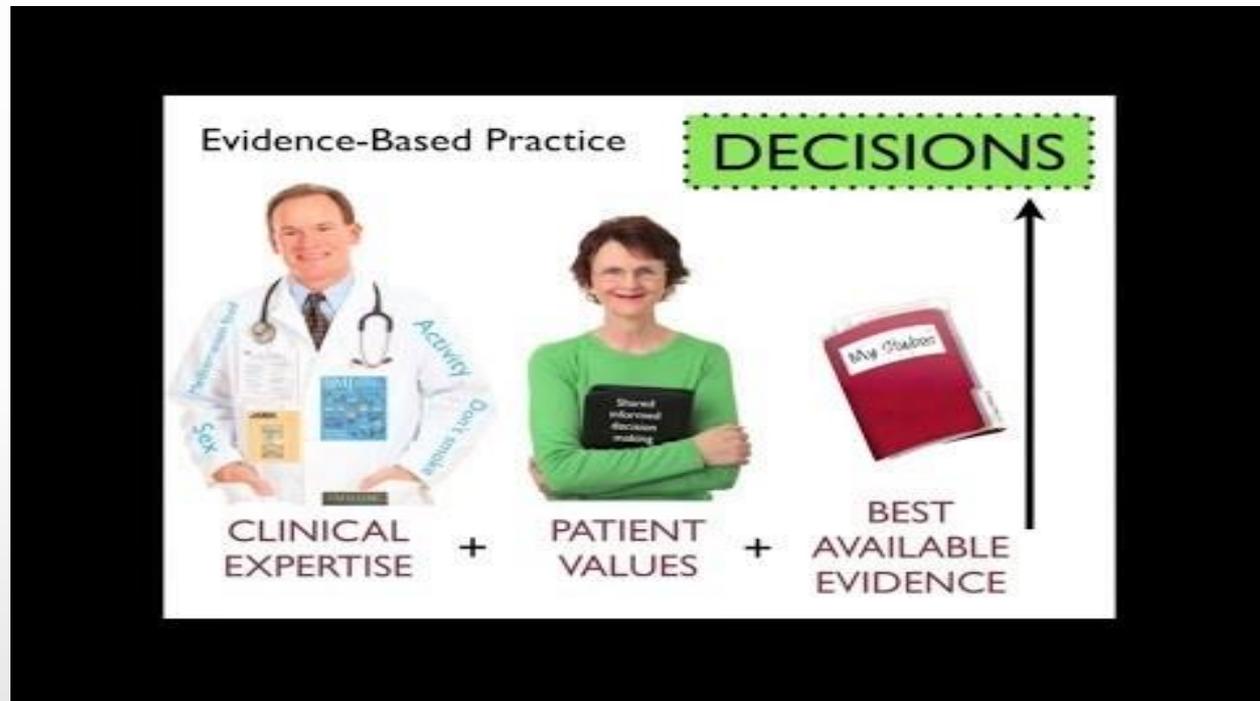
Evidence-based nursing

Evidence-based nursing is an approach to health care practice that enables nurses to provide the highest quality care based on the best evidence available to meet the needs of their patients.



Melnyk & Fineout-Overholt, 2005

Some Studies That I Like To Quote



Source: James McCormack

[Video URL](#)

Misconception

EBN is **NOT** a collection of statistical summaries, ignoring patient preferences and clinical expertise.

Steps in Evidence-Based Research:

1. • Asking answerable questions
2. • Finding the best evidence
3. • Critically appraising the evidence
4. • Applying a decision
5. • Evaluation

Heneghan C, Badenoch D. *Evidence-based medicine toolkit*. 2d ed. Malden, MA: Blackwell, 2007

Limits of Evidence-Based Practice

[Display Settings:](#) Abstract

[Send to:](#)

[BMJ](#). 2003 Dec 20;327(7429):1459-61.

Parachute use to prevent death and major trauma related to gravitational challenge: systematic review of randomised controlled trials.

[Smith GC](#)¹, [Pell JP](#)

[+ Author information](#)

Abstract

OBJECTIVES: To determine whether parachutes are effective in preventing major trauma related to gravitational challenge.

DESIGN: Systematic review of randomised controlled trials.

DATA SOURCES: Medline, Web of Science, Embase, and the Cochrane Library databases; appropriate internet sites and citation lists.

STUDY SELECTION: Studies showing the effects of using a parachute during free fall.

MAIN OUTCOME MEASURE: Death or major trauma, defined as an injury severity score > 15.

RESULTS: We were unable to identify any randomised controlled trials of parachute intervention.

CONCLUSIONS: As with many interventions intended to prevent ill health, the effectiveness of parachutes has not been subjected to rigorous evaluation by using randomised controlled trials. Advocates of evidence based medicine have criticised the adoption of interventions evaluated by using only observational data. We think that everyone might benefit if the most radical protagonists of evidence based medicine organised and participated in a double blind, randomised, placebo controlled, crossover trial of the parachute.

Republished in

[Int J Prosthodont](#). 2006 Mar-Apr;19(2):126-8.

PMID: 14684649 [PubMed - indexed for MEDLINE] PMID: PMC300808 [Free PMC Article](#)



"Parachute" by [Yakinodi](#) is licensed under [CC BY 2.0](#)

Not all Evidence is Created Equal!

[Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children.](#)

Wakefield AJ, Murch SH, Anthony A, Linnell J, Casson DM, Malik M, Berelowitz M, Dhillon AP, Thomson MA, Harvey P, Valentine A, Davies SE, Walker-Smith JA.

Lancet. 1998 Feb 28;351(9103):637-41.

Retraction in: [Lancet. 2010 Feb 6;375\(9713\):445.](#)

Partial retraction in: [Murch SH, Anthony A, Casson DH, Malik M, Berelowitz M, Dhillon AP, Thomson MA, Valentine A, Davies SE, Walker-Smith JA. Lancet. 2004 Mar 6;363\(9411\):750.](#)

There is a lot of research!

Over 28 million citations in PubMed!

Citations indexed for MEDLINE (FY2016): 869,666

Smoking cessation: **36885**

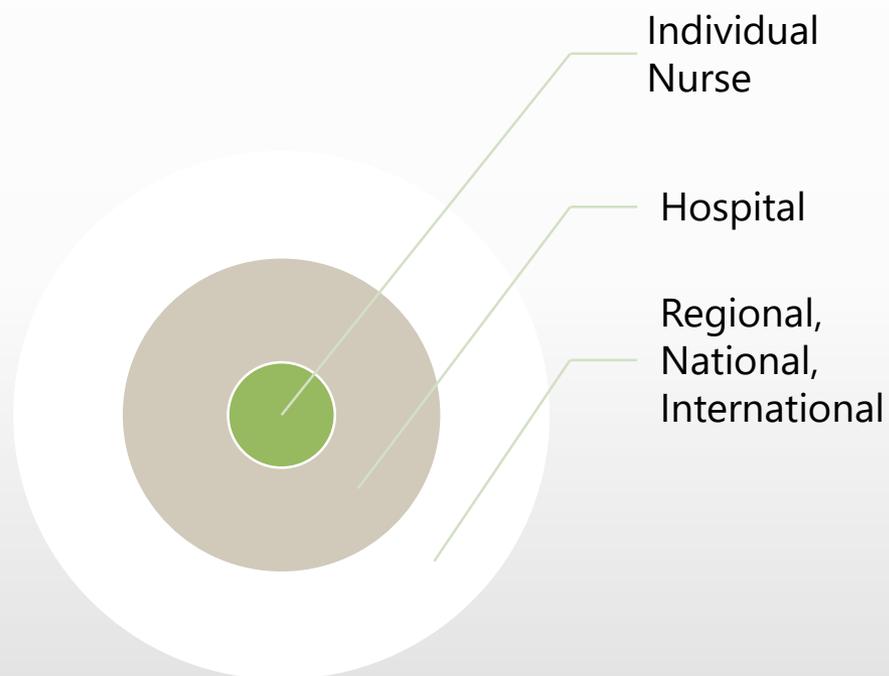
Asthma: **169993**

Diabetes: **613562**

Other EBP challenges or concerns?

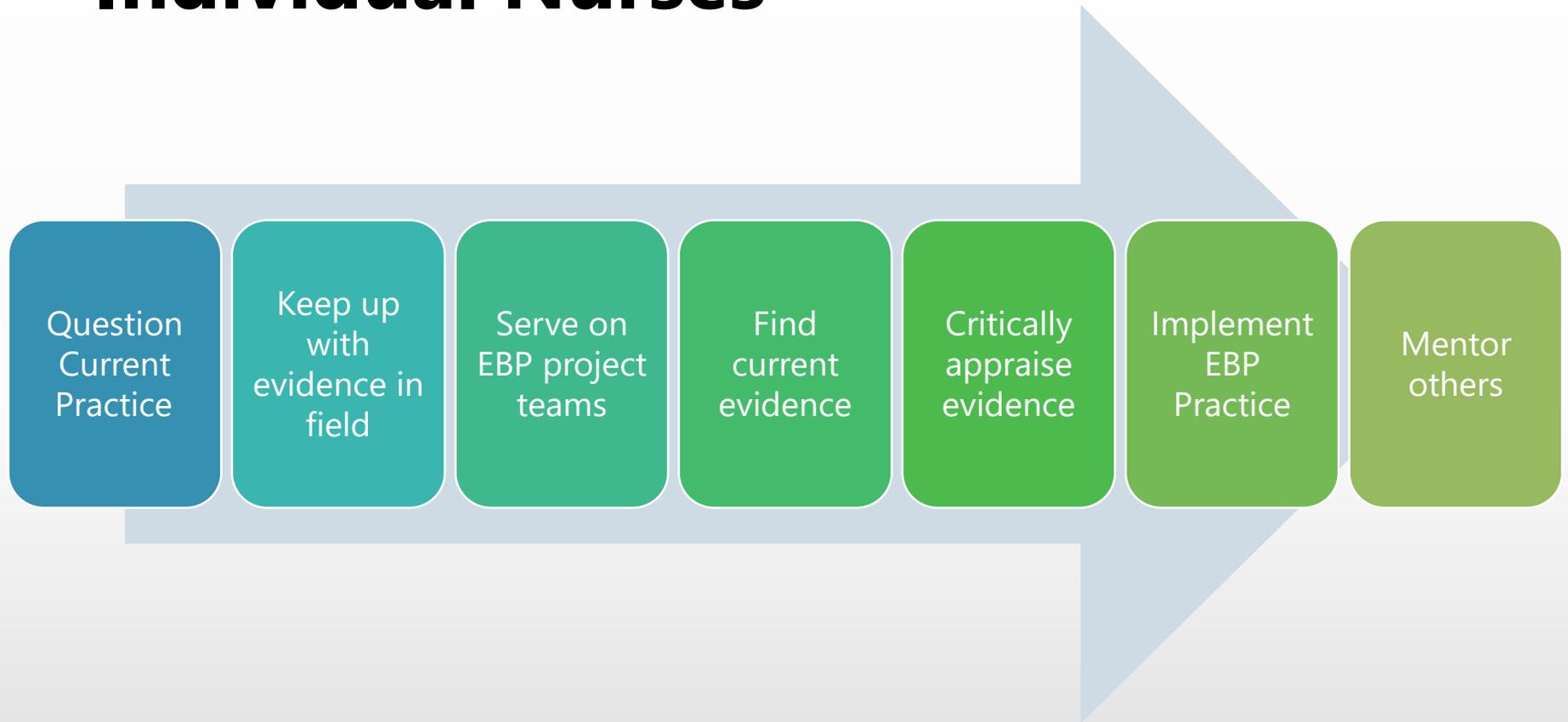


EBP Levels of Collaboration



Adapted from: Schmidt, N. (2015)

Individual Nurses



Schmidt, N. (2015). 2.1 The Five Levels of Collaboration. Evidence-Based Practice for Nurses.

Steps in Evidence-Based Research:

1. • **Asking answerable questions**
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3. • Critically appraising the evidence
4. • Applying a decision
5. • Evaluation

Heneghan C, Badenoch D. *Evidence-based medicine toolkit*. 2d ed. Malden, MA: Blackwell, 2007



The 5 A's

The Steps in the EBP Process:

ASSESS the patient	1. Start with the patient -- a clinical problem or question arises from the care of the patient
ASK the question	2. Construct a well built clinical question derived from the case
ACQUIRE the evidence	3. Select the appropriate resource(s) and conduct a search
APPRAISE the evidence	4. Appraise that evidence for its validity (closeness to the truth) and applicability (usefulness in clinical practice)
APPLY: talk with the patient	5. Return to the patient -- integrate that evidence with clinical expertise, patient preferences and apply it to practice
Self-evaluation	6. Evaluate your performance with this patient

5 A's [URL](#)

Assess: Start with the patient



"Deadly Listeria Food Poisoning: Who are at Risk?" by James Palinsad
is licensed under CC BY 2.0

Ask a Well-built Clinical Question



In a 70 year old woman with primary insomnia and a previous adverse reaction to hypnotics, can cognitive behavior therapy improve sleep quality and duration?

Source: Northwestern University Galter Health Sciences Library

Forming the clinical question



- Identify key patient problem
- Phrased to facilitate finding an answer
- What treatment might be considered
- Alternative treatments to consider
- Outcome to avoid or promote

Ask an answerable question (focused - searchable – clinical)



Patient, Problem, Population



Intervention or therapy



Comparison, Control,
Context



Outcome

Finding the Evidence – Using PICO to formulate a search question

Choose your search terms

P	I	O
Teenagers Adolescents Young people	Brief intervention Brief advice Brief counselling Minimal advice	Smoking cessation Stop smoking Quit smoking

In our example the P in the PICO (our patient or population) is teenagers. Authors may also describe them as adolescents or young people so these phrases are listed in order to increase our chances of retrieving a more comprehensive set of results.

[Source](#): Center for Evidence-Based Medicine

PICO reminder



Patient, Problem, Population



Intervention or therapy



Comparison, Control,
Context



Outcome

Intervention/Therapy

In _____ (P),
How does _____ (I)
Compared to _____ (C)
Affect _____ (O)
Within _____ (T)?

Source: Stillwell SB, Fineout-Overholt E, Melnyk BM, Williamson KM. Evidence-based practice, step by step: asking the clinical question: a key step in evidence-based practice. *Am J Nurs*. 2010 Mar;110(3):58-61.

Etiology

Are _____ (P)

Who have _____ (I)

Compared with those without _____ (C)

At _____ risk for _____ (O)

Over _____ (T)?

Source: Stillwell SB, Fineout-Overholt E, Melnyk BM, Williamson KM. Evidence-based practice, step by step: asking the clinical question: a key step in evidence-based practice. *Am J Nurs*. 2010 Mar;110(3):58-61.

Diagnosis

In _____(P),

Are/is _____(I)

Compared with _____(C)

More accurate in diagnosing _____(O)?

Source: Stillwell SB, Fineout-Overholt E, Melnyk BM, Williamson KM. Evidence-based practice, step by step: asking the clinical question: a key step in evidence-based practice. Am J Nurs. 2010 Mar;110(3):58-61.

Identifying the Best Study

Type of Question	Suggested best type of Study
Therapy	RCT>cohort > case control > case series
Diagnosis	Prospective, blind comparison to a gold standard
Etiology/Harm	RCT > cohort > case control > case series
Prognosis	Cohort study > case control > case series
Prevention	RCT>cohort study > case control > case series
Clinical Exam	Prospective, blind comparison to gold standard
Cost	Economic analysis

Introduction to Evidence Based Medicine. Chapel Hill, NC: Health Sciences Library, UNC-Chapel Hill. 2004.

Let's try it!

John is a 50-year-old life-long smoker. He has tried many times to quit but has been unsuccessful. His buddy mentioned that acupuncture worked for him. Is there evidence that it works?

Worksheet: <http://bit.ly/RxZKFm>

Question adapted from: Supporting Clinical Care: An Institute in Evidence-Based Practice for Medical Librarians (2010)

What kind of question?

Therapy

Etiology

Diagnosis

PICO reminder



Patient, Problem, Population



Intervention or therapy



Comparison, Control,
Context



Outcome

Therapy

In _____ (P),
How does _____ (I)
Compared to _____ (C)
Affect _____ (O)
Within _____ (T)?

Let's try it AGAIN!

Jane brings her three-year-old son in to the emergency room. She says that her son has been having frequent fevers, which she has judged by feeling his forehead. Because she hasn't been using a thermometer, you wonder if she could have accurately determined if he had a fever.

Worksheet: <http://bit.ly/RxZKFm>

What kind of question is it?

Therapy

Etiology

Diagnosis

PICO reminder



Patient, Problem, Population



Intervention or therapy



Comparison, Control,
Context



Outcome

Diagnosis template

In _____(P),

Are/is _____(I)

Compared with _____(C)

More accurate in diagnosing _____(O)?

Step 2: Finding the best evidence

Finding the best evidence with which to answer the question through structured searches and understanding the literature:

- Primary Studies
 - Clinical trials
 - Randomized Controlled Trials
 - Multicenter studies
- Secondary (synthesized, summarized) Studies
 - Reviews
 - Meta-analyses

Hierarchy of Evidence



Types of Studies

- Case series and Case Reports
- Case control studies
- Cohort studies
- Randomized, controlled clinical trials
- Systematic Reviews
- Meta-analysis

Step 3: Critical appraisal



Step 4: Application

- How much will it help a patient or population?
- Does it meet their values and goals?
- Is it cost-effective?



Step 5: Evaluation

Formative

- Assess whether element of program is appropriate
- Conducted prior to program initiation

Process

- Assess program during delivery
- Quality control: what is being delivered vs. what is intended

Impact

- Assess program objectives being met
- May be completed after program or after program has been established for some time

Adapted from: Brownson RC, Baker EA, Left TL, Gillespie KN, True WR. *Evidence-Based Public Health*. 2nd edition ed. Oxford University Press; 2010.

Steps in Evidence-Based Research:

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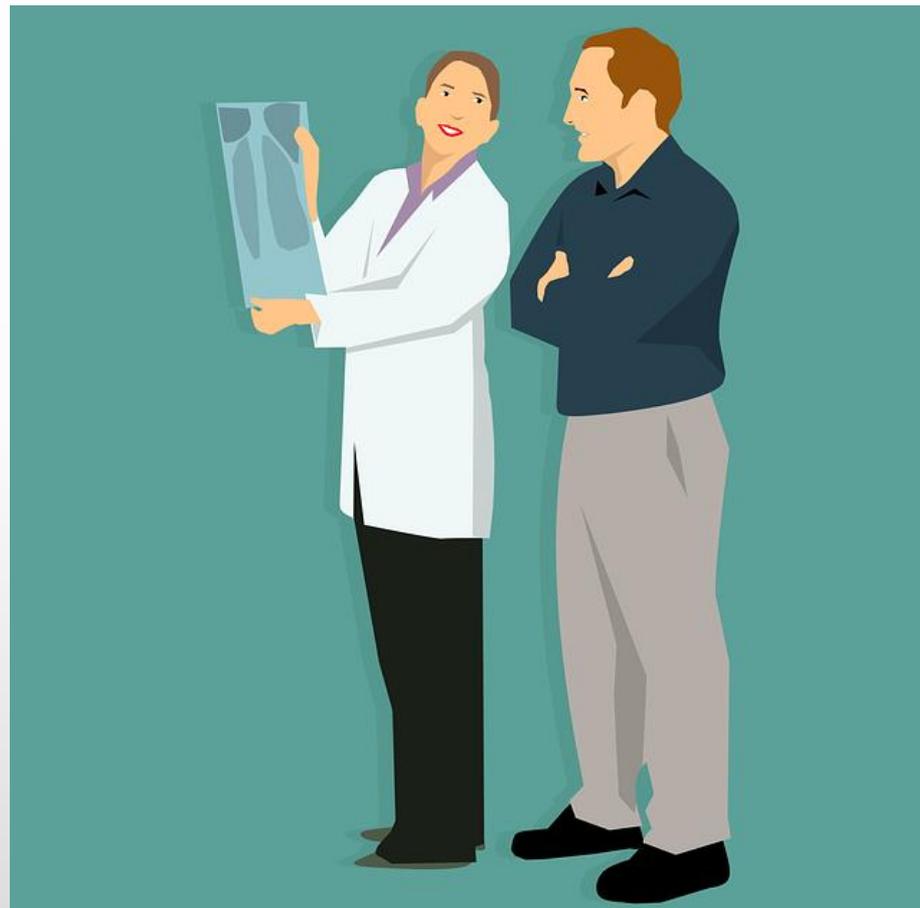
Heneghan C, Badenoch D. *Evidence-based medicine toolkit*. 2d ed. Malden, MA: Blackwell, 2007

BREAK!

Patient Education



Your Guide to Understanding
Genetic Conditions





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Medical Encyclopedia

Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster

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How does an inactive lifestyle affect your body?
Find out with our new health topic.



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Clinical Trials

Search [ClinicalTrials.gov](#) for drug and treatment studies.

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MedlinePlus details:

- 1000 health topics in English and Spanish
- Videos and animations
- Drug and herbal supplement information
- Multiple languages
- Medical dictionary and encyclopedia
- Easy-to-read materials



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Drugs, Herbs and Supplements

Drugs

Learn about your prescription drugs and over-the-counter medicines. Includes side effects, dosage, special precautions, and more.

Browse by generic or brand name:

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- [B](#)
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- [Q](#)
- [R](#)
- [S](#)
- [T](#)
- [U](#)
- [V](#)
- [W](#)
- [X](#)
- [Y](#)
- [Z](#)
- [0-9](#)

For FDA approved labels included in drug packages, see [DailyMed](#).

Herbs and Supplements

Browse dietary supplements and herbal remedies to learn about their effectiveness, usual dosage, and drug interactions.

[All herbs and supplements](#)

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Videos & Tools



Watch health videos on topics such as anatomy, body systems, and surgical procedures. Test your knowledge with interactive tutorials and games. Check your health with calculators and quizzes.



Health Videos

View videos of anatomy and body systems and how diseases and conditions affect them.

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Surgery Videos

Find videos of operations and surgical procedures.

[Understanding Medical Words Tutorial](#)

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Health Check Tools

Check your health with interactive calculators, quizzes and questionnaires.

[To Your Health: NLM Update Podcast](#)

MedlinePlus topic pages

1000+ topics!

- Bedbugs
- Cardiac rehabilitation
- Caregivers
- Coping with chronic illness
- Elder abuse
- Food allergy
- Gay, lesbian, bisexual, and transgender health
- Osteoporosis
- Prescription drug abuse
- Self-harm
- Tick bites

MedlinePlus Connect

A composite image showing a doctor in a white coat smiling and talking to a patient and another person. The doctor is on the left, and the patient and another person are on the right. The background is a light blue gradient.

Linking
Electronic Health Records
to health information
from **MedlinePlus.gov**

U.S. Department of Health and Human Services
National Institutes of Health (NIH)
National Library of Medicine (NLM)



Your Guide to Understanding Genetic Conditions

MENU ≡

Genetics Home Reference provides consumer-friendly information about the effects of genetic variation on human health.



Health Conditions

More than 1,200 health conditions, diseases, and syndromes

[Browse A-Z](#)



New & Updated Pages

New Pages

[combined oxidative phosphorylation deficiency 1](#)

[spastic paraplegia type 5A](#)

[DNMT3A overgrowth syndrome](#)

[URL](#) for Genetics Home Reference

[Health Conditions](#)[Genes](#)[Chromosomes & mtD](#)[Home](#)[Health Conditions](#)[Ollier disease](#)

Ollier disease

▼ Description

Ollier disease is a disorder characterized by multiple enchondromas, (benign) growths of cartilage that develop within the bones. These grow in the limb bones, especially in the bones of the hands and feet; how the skull, ribs, and bones of the spine (vertebrae). Enchondromas may cause deformities, shortening of the limbs, and fractures.

The signs and symptoms of Ollier disease may be detectable at birth, but may not become apparent until around the age of 5. Enchondromas develop where normal growth occurs, and they frequently stop forming after growing in early adulthood. As a result of the bone deformities associated with this disorder, people with this disorder generally have short stature and underdeveloped

▼ Additional Information & Resources

[▶ MedlinePlus \(1 link\)](#)[▶ Genetic and Rare Diseases Information Center \(1 link\)](#)[▶ Educational Resources \(5 links\)](#)[▶ Patient Support and Advocacy Resources \(2 links\)](#)[▶ ClinicalTrials.gov \(1 link\)](#)[▶ Scientific Articles on PubMed \(1 link\)](#)[▶ OMIM \(1 link\)](#)[▶ MedGen \(1 link\)](#)

Search

Patient Materials Provider Information Search All



Patient Materials

Find culturally relevant information in multiple languages and formats about health conditions and wellness topics



Provider Information

Discover resources, cultural backgrounders, clinical tools, and guidance about specific immigrant, refugee, and asylee populations



A-Z Index

Browse the entire collection of patient education materials and provider information tools by topic or category

[URL](#) for HealthReach

Diabetes

Diabetes is a disease in which your body cannot properly use the food you eat for energy. Your cells need energy to live and grow.

When you eat, food breaks down into a form of energy called glucose. Glucose is another word for sugar. The glucose goes into your blood and your blood sugar rises. Insulin is a hormone made by your pancreas. It helps glucose move from your blood into your cells so your body can use it for energy. People cannot live without insulin.

There are three main types of diabetes.

- In Type 1 diabetes, the pancreas makes no insulin.
- In Type 2 diabetes, the pancreas does not make enough insulin or your body is not able to use the insulin the pancreas makes.
- In gestational diabetes during pregnancy, the mother is not able to make enough insulin to cover the needs of both mother and baby.

داء السكري هو مرض يؤدي إلى عدم قدرة الجسم على الاستفادة من الطعام الذي يتناوله الإنسان في توليد الطاقة المناسبة، فخلايا الجسم تحتاج للطاقة أي تعيش وتنمو.

عندما يأكل الإنسان فإن الطعام يتحلل إلى شكل من أشكال الطاقة يعرف بالجلوكوز. وكلمة جلوكوز هي المرادف لكلمة سكر. وينتشر الجلوكوز في الدم فترتفع نسبة السكر في الدم. وهنا يأتي دور الأنسولين، وهو هرمون يفرزه البنكرياس. فالأنسولين يساعد الجلوكوز على الانتقال من الدم إلى الخلايا حتى يستطيع الجسم استخدامه في توليد الطاقة. ولذا فإن الإنسان لا يستطيع أن يعيش بدون الأنسولين.

وهناك ثلاثة أنواع رئيسية لداء السكري.

- في النوع الأول لا يقوم البنكرياس بإفراز الأنسولين.
- في النوع الثاني لا يقوم البنكرياس بإفراز ما يكفي من الأنسولين، أو لا يتمكن الجسم استخدام الأنسولين الذي يفرزه البنكرياس.
- أما في سكر الحمل فلا يتمكن جسم الأم من إفراز ما يكفي من الأنسولين لتلبية احتياجاتها واحتياجات الجنين أيضاً.

Opioid Misuse and Addiction Resources **NEW**

In response to the current opioid crisis, the National Library of Medicine partnered with [Healthy Roads Media](#) to produce a collection of materials that teach people about opioids and opioid misuse. The collection has 22 easy-to-read, English-language handouts, videos, and audio recordings.

Opioids

- [Basics](#)
- [Pain](#)
- [Prescription opioid medicines](#)
- [Opioid pain medication management](#)
- [What you should know if your child is prescribed opioids for pain](#)
- [Getting rid of unused opioids](#)

Opioid addiction

- [What is drug addiction?](#)
- [Why do people take drugs?](#)
- [Opioids and the brain](#)
- [Why do some people become addicted to drugs, while others do not?](#)
- [The effects of opioid misuse on the body](#)
- [Fentanyl](#)
- [Heroin](#)
- [Prescription opioids and illegal opioids – What is the connection?](#)
- [Comorbidity or dual diagnosis](#)
- [Pregnancy and opioids](#)
- [Drug abuse and adolescents](#)
- [Stigma and opioids](#)

Opioid treatment

- [Treatment basics](#)
- [Medications and behavioral therapies](#)
- [Drug abuse treatment as part of healthcare](#)
- [Preventing overdoses and overdose deaths](#)

In 2018, these materials will be culturally reviewed and translated into additional languages.

Exercises (part 1)

My son has been having trouble using his inhaler correctly. Do you have any tips?

Exercises (part 1 cont.)

I have been using St. John's Wort for depression.
Is it safe?

Exercises (part 1 cont.)

Can you find me information to give my pregnant patients who speak Nepali?

Drug information



Home

News and Features

NLM Resources

NLM Research
Resources

Resources by
Audience / Class

Other Resources

Mobile Site



Information available for 71,947 drugs.

By Name By Category

- ▶ Show examples.
- ▶ Show drug category names, results, and descriptions.
- ▶ Show top "By Name" searches (previous seven days).
- ▶ Show top "By Category" searches (previous seven days).
- ▶ Show top dispensed prescriptions in the US Market, 2010.
- ▶ Show common drug names list.
- ▶ Show generic name stems list.
- ▶ Show list of resources searched.

[URL](#) for Drug Information Portal



By Name By Category

BENADRYL



1 result for Name/Synonym equals BENADRYL

Drug Name: Diphenhydramine hydrochloride [USP:BAN:JAN]

[View Synonyms](#)

[View Structure](#)

Description: A histamine H1 antagonist used as an antiemetic, antitussive, for dermatoses and pruritus, for hypersensitivity reactions, as a hypnotic, an antiparkinson, and as an ingredient in common cold preparations. It has some undesired antimuscarinic and sedative effects.

Summary

- ▶ [Summary of drug information \(MedlinePlusDrug\)](#)
- ▶ [Summary of consumer health information \(MedlinePlusTopics\)](#)
- ▶ [Summary of Drug-Induced Liver Injury \(LiverTox\)](#)
- ▶ [Manufacturers drug label \(DailyMed\)](#)
- ▶ [Clinical trials \(ClinicalTrials.gov\)](#)
- ▶ [Drug Identification and Image Display \(Pillbox\)](#)

Detailed Summary

- ▶ [References from scientific journals \(Medline/PubMed\)](#)
- ▶ [Full text biomedical articles \(PubMed Central\)](#)



ALL DRUGS

HUMAN DRUGS

ANIMAL DRUGS

Enter drug, NDC code, drug class, or Set ID



MORE WAYS TO SEARCH:

ADVANCED SEARCH

BROWSE DRUG CLASSES

LABEL ARCHIVES

TABLET/CAPSULE ID TOOL

This website contains **97720** drug listings as submitted to the **Food and Drug Administration (FDA)**.
At the present time, this Web site does not contain a complete listing of labels for approved prescription drugs.

SHARE    

NEWS

[DailyMed Announcements](#)

Posted: October 06, 2017

Drug Listing Certification is Coming

Slides and recordings from the FDA's October 5, 2017 meeting titled Electronic Drug Registration & Listing Using CDER Direct are now available.

<http://sbiaevents.com/edrls-2017/>

FDA GUIDANCES & INFORMATION

[Drug Guidance, Compliance & Regulatory Information](#)



[View FDA Structured Product Labeling Resources](#)

[View FDA Drug Labeling Guidances](#)

[View All FDA Drug Guidances](#)

NLM SPL RESOURCES

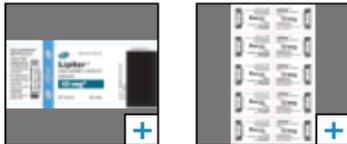
The following Structured Product Labeling (SPL) resources have

[URL](#) for DailyMed

LABEL: LIPITOR- atorvastatin calcium tablet, film coated

LABEL RSS  SHARE    

VIEW PACKAGE PHOTOS



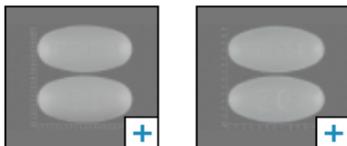
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VIEW DRUG PHOTOS

NDC Codes:

0071-0158-23

0071-0156-23



 VIEW MORE

SAFETY

[Report Adverse Events](#)

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NDC Code(s): 0071-0155-10, 0071-0155-23, 0071-0155-34, 0071-0155-40, [view more](#)

Packager: Parke-Davis Div of Pfizer Inc

Category: HUMAN PRESCRIPTION DRUG LABEL

DEA Schedule: None

Marketing Status: New Drug Application

DRUG LABEL INFORMATION

Updated July 6, 2017

If you are a consumer or patient please visit [this version](#).

DOWNLOAD DRUG LABEL INFO: [PDF](#) | [XML](#) 

OFFICIAL LABEL (PRINTER FRIENDLY) 

VIEW ALL SECTIONS

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use LIPITOR safely and effectively. See full prescribing information for LIPITOR. LIPITOR - [®] (atorvastatin calcium ...

FULL PRESCRIBING INFORMATION: CONTENTS*

Table of Contents

1 INDICATIONS AND USAGE

Therapy with lipid-altering agents should be only one component of multiple risk factor intervention in individuals at significantly increased risk for atherosclerotic vascular disease ...

2 DOSAGE AND ADMINISTRATION

2.1 Hyperlipidemia and Mixed Dyslipidemia The recommended starting dose of LIPITOR is 10 or 20 mg

Identify or Search for a Pill

Imprint:

Pill does not have an imprint.

Shape:

Color:

Size:

Score: Unknown 1 2 3 4

Drug Name or Ingredient(s):

Inactive Ingredient(s):
 Find pills WITHOUT this ingredient.

Label Author:

DEA Schedule:

Product Code: -

Do not search repackaged and relabeled medications.

Discover

There's more to a pill than how it looks. What's inside the pill other than the drug? Is it a controlled substance?

Connect

Learn more than the pill's name. Pillbox links you to the drug label, clinical trials, breastfeeding safety, and more.

Explore



Pillbox's advanced search app has been retired. A new Pillbox website is in development that has the same features as the advanced

[URL](#) for Pillbox

[Show Search Criteria](#)

Search Results: 3 record(s) for "celexa".



Name: Celexa - Citalopram 40 MG Oral Tablet [Celexa]

Ingredient(s): Citalopram hydrobromide

Imprint: F;P;40;MG

Label Author: Forest Laboratories, Inc.

[Show More Information](#)

[Drug Label](#)

[Drug Information Links](#)



Name: Celexa - Citalopram 10 MG Oral Tablet [Celexa]

Ingredient(s): Citalopram hydrobromide

Imprint: FP;10;MG

Label Author: Forest Laboratories, Inc.

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[Drug Label](#)

[Drug Information Links](#)

No Image Available

Name: Celexa - Citalopram 20 MG Oral Tablet [Celexa]

Ingredient(s): Citalopram hydrobromide

Imprint: F;P;20;MG

Label Author: Forest Laboratories, Inc.

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[Drug Information Links](#)

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Research

ClinicalTrials.gov

PubMed.gov

US National Library of Medicine
National Institutes of Health



ClinicalTrials.gov is a database of privately and publicly funded clinical studies conducted around the world.

Explore **257,211** research studies in all **50** states and in **201** countries.

ClinicalTrials.gov is a resource provided by the U.S. National Library of Medicine.

IMPORTANT: Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our [disclaimer](#) for details.

Before participating in a study, talk to your health care provider and learn about the [risks and potential benefits](#).

Search (all fields optional)

Condition / Disease: X

Other Terms: X

Country: ▾ X

[Find a study to participate in](#)

[URL](#) for ClinicalTrials.gov

Patients and Families

- ClinicalTrials.gov offers a reliable and generally comprehensive list of ongoing trials that people might consider enrolling in
- Gives patients a centralized place to search by condition, location, and other trial characteristics
- “Access to more information about clinical trials is good for patients, the public and science,” NIH Director Francis S. Collins, M.D., Ph.D.*

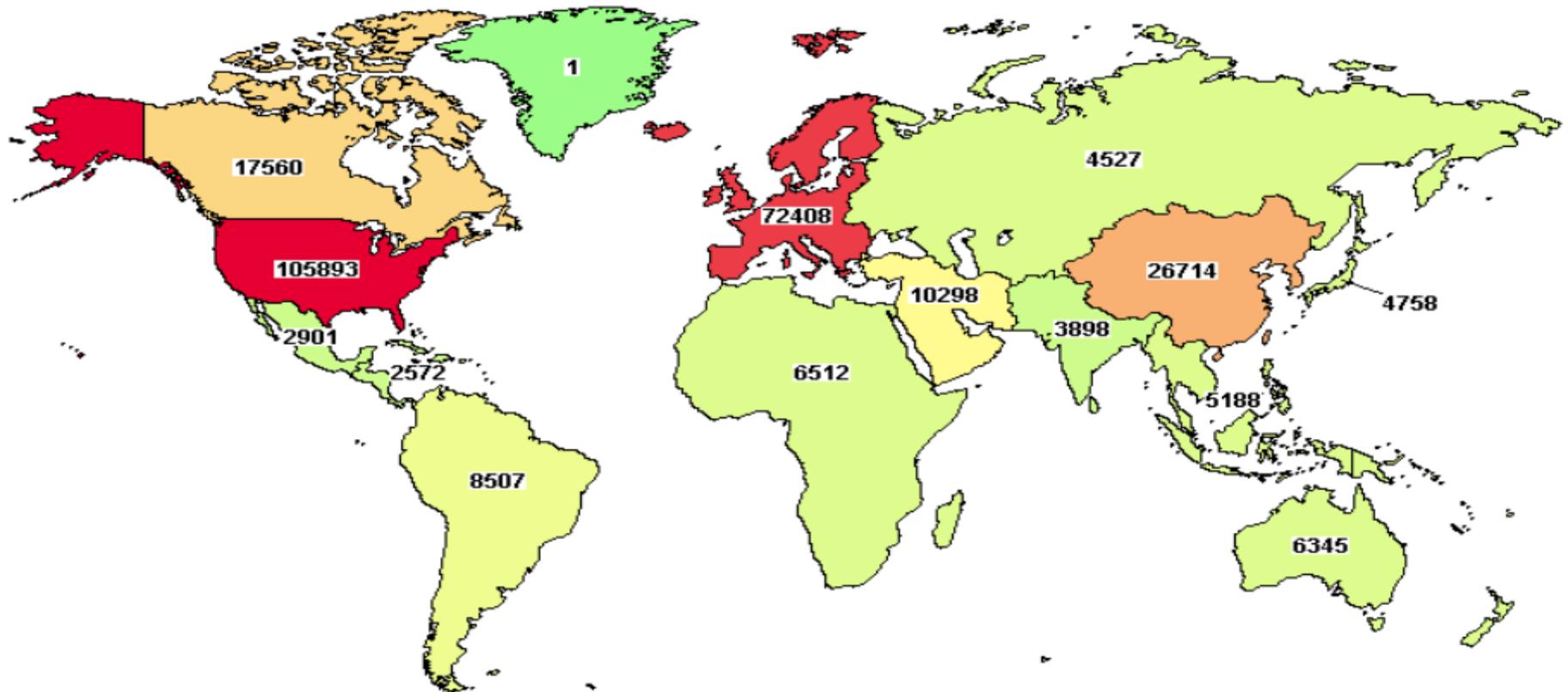
*[URL](#) for source

Sample Uses of ClinicalTrials.gov

- Access information about specific trial
 - Find trials for potential participants
 - Track progress and protocol changes
 - See results (if available)
- Assess available evidence relevant to a specific clinical topic
- Assess nature of current and past research
- Review methodologies used in clinical trials

Map of All Studies on ClinicalTrials.gov

On the map below, click on a region to show a more detailed map (when available) or see a list of studies with locations in that region (when a detailed map is not available).



Colors indicate the number of studies with locations in that region.

Least  Most

Labels give the exact number of studies.

158 Studies found for:

Recruiting, Not yet recruiting Studies | Asthma | United States

Also searched for **Asthmatic**. [See Search Details](#)

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Showing: 1-10 of 158 studies studies per page

Show/Hide Columns

Filters

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Status 

Studies:

- Not yet recruiting
- Recruiting
- Enrolling by invitation
- Active, not recruiting
- Suspended
- Terminated
- Completed
- Withdrawn
- Unknown status[†]

Expanded Access: 

Row	Saved	Status	Study Title	Conditions	Interventions	Locations
1	<input type="checkbox"/>	Recruiting	Inflammatory Mediators and microRNA Analysis in Premenstrual Asthma	<ul style="list-style-type: none">Asthma		<ul style="list-style-type: none">The Ohio State University Columbus, Ohio United States
2	<input type="checkbox"/>	Not yet recruiting	Increased Lung Volume as Controller Therapy for Asthma	<ul style="list-style-type: none">Asthma	<ul style="list-style-type: none">Device: Positive Expiratory Pressure	<ul style="list-style-type: none">Vermont Lung Center Colchester, Vermont United States
3	<input type="checkbox"/>	Recruiting	Spirometric Response to Bronchial Thermoplasty in Patients With Severe Asthma	<ul style="list-style-type: none">Asthma	<ul style="list-style-type: none">Procedure: Bronchial Thermoplasty	<ul style="list-style-type: none">OUHSC Oklahoma City, Oklahoma United States
4	<input type="checkbox"/>	Recruiting	Characterizing Asthma Sputum Elasticity in the UCSF Severe Asthma Research Program	<ul style="list-style-type: none">Asthma		<ul style="list-style-type: none">University of California, San Francisco San Francisco, California United States



PubMed

PubMed comprises more than 27 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.

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More Resources

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[Clinical Trials](#)

[E-Utilities \(API\)](#)

[LinkOut](#)

Latest Literature

New articles from highly accessed journals

[Am J Kidney Dis \(4\)](#)

[Biochim Biophys Acta \(5\)](#)

[Clin Ther \(1\)](#)

[Gut \(5\)](#)

[J Am Coll Cardiol \(1\)](#)

Trending Articles

PubMed records with recent increases in activity

[Glucose feeds the TCA cycle via circulating lactate.](#)
Nature. 2017.

[Guidelines for morpholino use in zebrafish.](#)
PLoS Genet. 2017.

[Inflammatory memory sensitizes skin epithelial stem cells to tissue damage.](#)
Mol Cell. 2017.

PubMed Commons

Featured comments

[Updating connections: Author D Vaultot provides new links for protist ribosomal reference database & project log.](#) bit.ly/2fWQbS8
Oct 23

[Teasing apart isoform silencing: M Koksharov discusses considerations for siRNA knockdown of a transcription factor.](#) bit.ly/2fGIBYu

[URL for PubMed](#)

What is PubMed?

- The world's premiere biomedical bibliographic database
- Online access to the MEDLINE database
- Contains more than 28 million citations to journal articles in these major content areas:
 - Biomedical Sciences
 - Nursing, Dentistry, Pharmacy and Allied Health
 - Veterinary Medicine
 - Preclinical sciences

3 ways to speed up your search

1. Use clinical queries to limit to clinical research areas
2. Use filters to limit your search quickly
3. Once you have one good article, click Related Citations to see more like it.

Clinical Queries

PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches

duct tape warts

Clinical Study Categories

Category:
 Scope:

Systematic Reviews

Results: 5 of 15

Topical treatments for cutaneous warts.

Kwok CS, Gibbs S, Bennett C, Holland R, Abbott R.
Cochrane Database Syst Rev. 2012 Sep 12; (9):CD001781. Epub 2012 Sep 12.

Question 3. What is the efficacy of duct tape as a treatment for verruca vulgaris?

Stubbings A, Wacogne I.
Arch Dis Child. 2011 Sep; 96(9):897-9.

Warts (non-genital).

Loo SK, Tang WY.
BMJ Clin Evid. 2009 Sep 24; 2009. Epub 2009 Sep 24.

Is it really possible to remove warts with duct tape?

[No authors listed]
Mayo Clin Womens Healthsource. 2007 Dec; 11(12):8.

Duct tape, warts and all.

[No authors listed]
Harv Health Lett. 2007 Jul; 32(9):5.

[See all \(15\)](#)

Results: 5 of 9

Warts (non-genital).

Loo SK, Tang WY.
BMJ Clin Evid. 2014 Jun 12; 2014. Epub 2014 Jun 12.

Topical treatments for cutaneous warts.

Kwok CS, Gibbs S, Bennett C, Holland R, Abbott R.
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Warts (non-genital).

Loo SK, Tang WY.
BMJ Clin Evid. 2009 Sep 24; 2009. Epub 2009 Sep 24.

To freeze or not to freeze: a cost-effectiveness analysis of wart treatment.

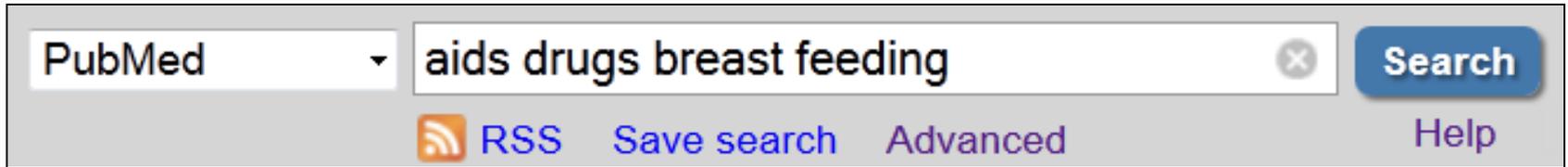
Keogh-Brown MR, Fordham RJ, Thomas KS, Bachmann MO, Holland RC, Avery AJ, Armstrong SJ, Chalmers JR, Howe A, Rodgers S, et al.

Evidence-based search filters:
Systematic Reviews
Therapy
Etiology
Prognosis
Diagnosis
Clinical
Prediction Guides

PubMed Clinical Queries

- Available from the PubMed Home page
- Therapy
- Diagnosis
- Etiology
- Prognosis
- Clinical Prediction Guides
 - Search filters: <http://1.usa.gov/1bj4De4>
- Systematic Review
 - Search filter: <http://1.usa.gov/184vDzf>

A PubMed Subject Search



PubMed

- Be specific
- Don't use punctuation (quotation marks)
- Don't worry about capitalization

Examples

PubMed	▼	risk benefit stavudine therapy	✕	Search
PubMed	▼	cross protection hpv vaccine	✕	Search
PubMed	▼	off label avastin	✕	Search
PubMed	▼	hoang retina	✕	Search

- Use key words for main concepts
- Leave out words like **the, of, for**
- The word "and" is a Boolean operator; it is assumed and automatic
- Author and journal key words work too!

Automatic Term Mapping (ATM)

PubMed uses Automatic Term Mapping which recognizes *thousands* of concepts and maps to



A screenshot of a search interface. On the left, there is a dropdown menu with 'PubMed' selected. To its right is a search input field containing the text 'aids drugs breast feeding'. A small 'x' icon is visible in the top right corner of the input field. To the right of the input field is a blue button with the word 'Search' in white text.

ATM checks these tables:

- Subjects (MeSH – Medical Subject Headings)
- Journal Titles
- Authors

Clinical Effectiveness and Clinical Guidelines





In partnership with:



THE UNIVERSITY of York
Centre for Reviews and Dissemination



National Heart, Lung,
and Blood Institute



National Institute for
Health and Care Excellence



[URL](#) for PubMed Health

Systematic Reviews

- Critical assessment and evaluation of all research studies that address a particular clinical issue
- Studies are searched for and included in the review using a set of specific criteria
- May include a quantitative pooling of data, called a meta-analysis.
- **Example:** Scientists collected all the published studies that compared types of treatment for prostate cancer that had not spread beyond the prostate gland. They compiled the results of these studies in a comparative effectiveness review, which is a type of *systematic review*.

Source: Agency for Health Care Research and Quality
<http://1.usa.gov/1gFJZnw>

Article types

- Consumer information
- Systematic reviews
- Clinician information
- Educational resources
- Methods resources

Added to PubMed Health

- In last 7 days
- In last 30 days
- Custom range...

Content providers

- AHRQ (US Agency for Healthcare Research and Quality)
- Cochrane Collaboration
- NCI (US National Cancer Institute)
- More ...

Effectiveness research methods

- Methods guidance
- Methods studies
- Methods systematic reviews

Additional filters

- Systematic reviews with quality assessment
- Reviews from DARE

Results: 1 to 20 of 224

<< First < Prev Page 1 Next > Last >>

- [Systematic review to identify and appraise outcome measures used to evaluate childhood obesity treatment interventions \(CoOR\): evidence of purpose, application, validity, reliability and sensitivity](#)
 The study found that the **Childhood obesity** Outcomes Review (CoOR) outcome measures framework provides clear guidance of recommended primary and secondary Health Technology Assessment - NIHR Journals Library.
 Version: August 2014
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- [Parent-only interventions for childhood overweight or obesity in children aged 5 to 11 years](#)
 Across the world more children are becoming overweight and obese. These children are more likely to suffer from health problems as children and in later life. Parents can
 Cochrane Database of Systematic Reviews: Plain Language Summaries [Internet] - John Wiley & Sons, Ltd.
 Version: 2016
- [Interventions for the Prevention or Management of Childhood Obesity: A Review of the Clinical Evidence \[Internet\]](#)
 Over 30% of children and youth in Canada are considered overweight or obese. **Obesity** is caused by long-term energy imbalances, whereby daily energy intake
 Rapid Response Report: Summary with Critical Appraisal - Canadian Agency for Drugs and Technologies in Health.
 Version: December 13, 2013
[+ Show search results within this document](#)
- [Interventions to Reduce or Prevent Obesity in Pregnant Women: A Systematic Review](#)

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Systematic Reviews in PubMed

- Social marketing approaches to nutrition and physical activity interventions in early care and education ce [Obes Rev. 2017]
 - Double burden of diseases worldwide: coexistence of undernutrition and overnutrition-related non [Obes Rev. 2017]
 - Family-based childhood obesity prevention interventions: a systematic review and quar [Int J Behav Nutr Phys Act. 2017]
 - Committee Opinion No. 714: Obesity in Adolescents. [Obstet Gynecol. 2017]
 - Committee Opinion No. 714 Summary: Obesity in Adolescents. [Obstet Gynecol. 2017]
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-  childhood obesity nutrition intervention (224)
- PubMed Health



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BY ORGANIZATION

BY MESH TAG

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Browse by MeSH Tag

The below terms are derived from the U.S. National Library of Medicine's (NLM) [Medical Subject Headings \(MeSH\)](#), a controlled vocabulary for disease/condition, treatment/intervention, and health services administration. MeSH is one of the controlled vocabularies included within the Unified Medical Language System (UMLS) ([what's this?](#))

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By Clinical Specialty

By MeSH Tag

By Organization

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Disease/Condition Treatment/Intervention Health Services Administration 

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NGC provides structured summaries containing information from clinical practice guidelines.

[Inclusion Criteria >](#)[Template of Guideline Attributes >](#)[Glossary >](#)[Classification Scheme >](#)

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95 guideline summaries in progress

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Learn how to submit your evidence-based clinical practice guidelines.

+ Technology, Industry, Agriculture (208)

+ Humanities (35)

+ Information Science (596)

+ Named Groups (16)

+ **Health Care (1159)**

Environment and Public Health (641)

Health Care Economics and Organizations (340)

Health Care Facilities, Manpower, and Services (938)

Health Care Quality, Access, and Evaluation (622)

Health Services Administration (866)

Population Characteristics (643)

+ Publication Characteristics (10)

1-20 of 641 results for

“Environment and Public Health”

NARROW RESULTS

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- Meets 2013 Inclusion Criteria (258)
- U.S.-based Organizations (437)
- Addresses Multiple Chronic Conditions (33) i

Publication Date -

From: To:

MeSH Tag -

Treatment/Intervention

- Environment and Public Health (641)
 - Environment (28)
 - Public Health (633)

Target Population Characteristics -

1

2

3

4

5

...

32

33

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SORT BY [Relevance](#) | [Date](#) SHOW [20](#) | [50](#) | [100](#)

[Compare Summaries](#) i

[X](#) Environment and Public Health

 GUIDELINE SUMMARY NGC:010772 2015 MAY

Clinical practice guideline on management of patients with diabetes and chronic kidney disease stage 3b or higher (eGFR <45 mL/min).

Compare

European Renal Best Practice

 GUIDELINE SUMMARY NGC:009319 2012 AUG 17

Recommendations for the identification of chronic hepatitis C virus infection among persons born during 1945–1965.

Compare

Centers for Disease Control and Prevention

Exercises (part 2)

I have been told that I am at risk for inheriting androgenetic alopecia. What is it? Are there any clinical trials I can join?

Exercises (part 2 cont.)

In my dad's pill box, I saw a pill I couldn't recognize. It's pink and oval-shaped and has E 54 printed on it. What is it? Can you give me information on what's it's used for?

Exercises (part 2 cont.)

You work on a surgical unit. You notice that patients that bring music to listen to seem to complain less about postsurgical pain. Is there any evidence to support your observation?

Exercises (part 2 cont.)

You are a nurse in the NICU. You want to improve mother-child bonding and reduce infant mortality. You want to try “kangaroo care.” How do outcomes compare to conventional neonatal care?

Exercises (part 2 cont.)

Find clinical trials looking at avastin treatment for macular degeneration. How many are recruiting? Are there any trials with results?

Exercises (part 2 cont.)

Find evidence-based interventions for the management of adolescent obesity.

Exercises (part 2 cont.)

Silver is often an ingredient in creams for diabetic foot ulcers. Is there evidence that it is useful?

Exercises (part 2 cont.)

Of the resources introduced, which one is most relevant to your work or of most interest to you? Give an example of how you might use it in the future.

Thanks!

Elaina Vitale / ejv@pitt.edu

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