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

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National Network of Libraries of Medicine,
Middle Atlantic Region

November 17, 2017

# Objectives

- Find patient education information using MedlinePlus and Genetics Home Reference
- Access drug information using Drug Information Portal
- Find clinical trials by condition and limit to those with results in ClinicalTrials.gov

# Objectives

- Find clinical practice guidelines
- Find systematic reviews in PubMed Health and PubMed/MEDLINE
- Use Clinical eCompanion and understand its target audience

# Schedule

**9:45-10:45: Consumer health resources**

MedlinePlus, HealthReach, Genetics Home Reference

**10:55-11:45: Drug resources**

DailyMed, Pillbox, Drug Information Portal

**1:15-2:15: Research resources**

PubMed, clinicaltrials.gov

**2:30-3:45: Clinical effectiveness resources**

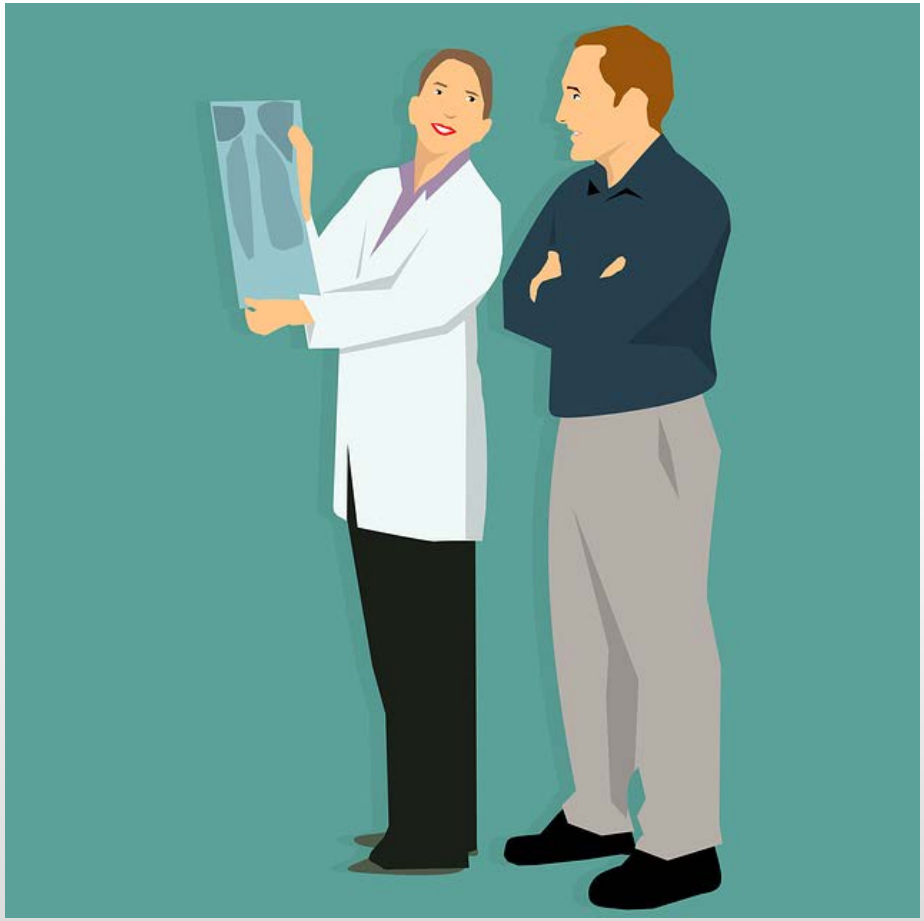
PubMed Health, National Guideline Clearinghouse, Clinical eCompanion

# Patient Education

MedlinePlus®
Trusted Health Information for You

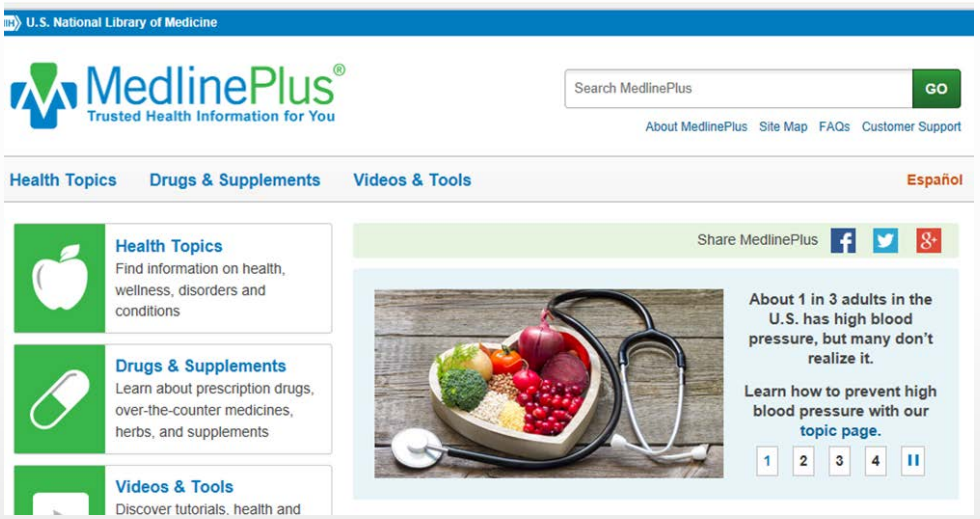
Genetics Home Reference
Your Guide to Understanding Genetic Conditions

HealthReach
Health Information In Many Languages



# MedlinePlus

- NLM main portal for consumer health information
- Available in English and Spanish
- Offers information on over 1,000 health topics, medications and supplements




**MedlinePlus.gov**

# MedlinePlus topic pages

- 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 Health Topics

## Understanding Medical Research

On this page

| Basics | Learn More | See, Play and Learn |
|---|---|---|
| Summary | Related Issues | Videos and Tutorials |
| Start Here | | |
| Latest News | | |

| Research | Resources | For You |
|---|---|---|
| Statistics and Research | Reference Desk | Teenagers |
| | Find an Expert | |

### Summary

It seems to happen almost every day - you hear about the results of a new medical research study. Sometimes the results of one study seem to disagree with the results of another study.

## Advance Directives

On this page

| Basics | Learn More | See, Play and Learn |
|---|---|---|
| Summary | Related Issues | No links available |
| Start Here | Specifics | |

| Research | Resources | For You |
|---|---|---|
| Clinical Trials | Reference Desk | Seniors |
| Journal Articles | Find an Expert | Patient Handouts |

### Summary

hurt to express your wishes? Advance ecisions about end-of-life care ahead of and health care professionals and to

## Wildfires

**Also called: Forest Fire, Wildland Fire**

### Summary

Wildfires are fires that burn out of control in a natural area, like a forest, grassland, or prairie. They often begin unnoticed. They spread quickly, and can damage natural resources, destroy homes, and threaten the safety of the public and firefighters.

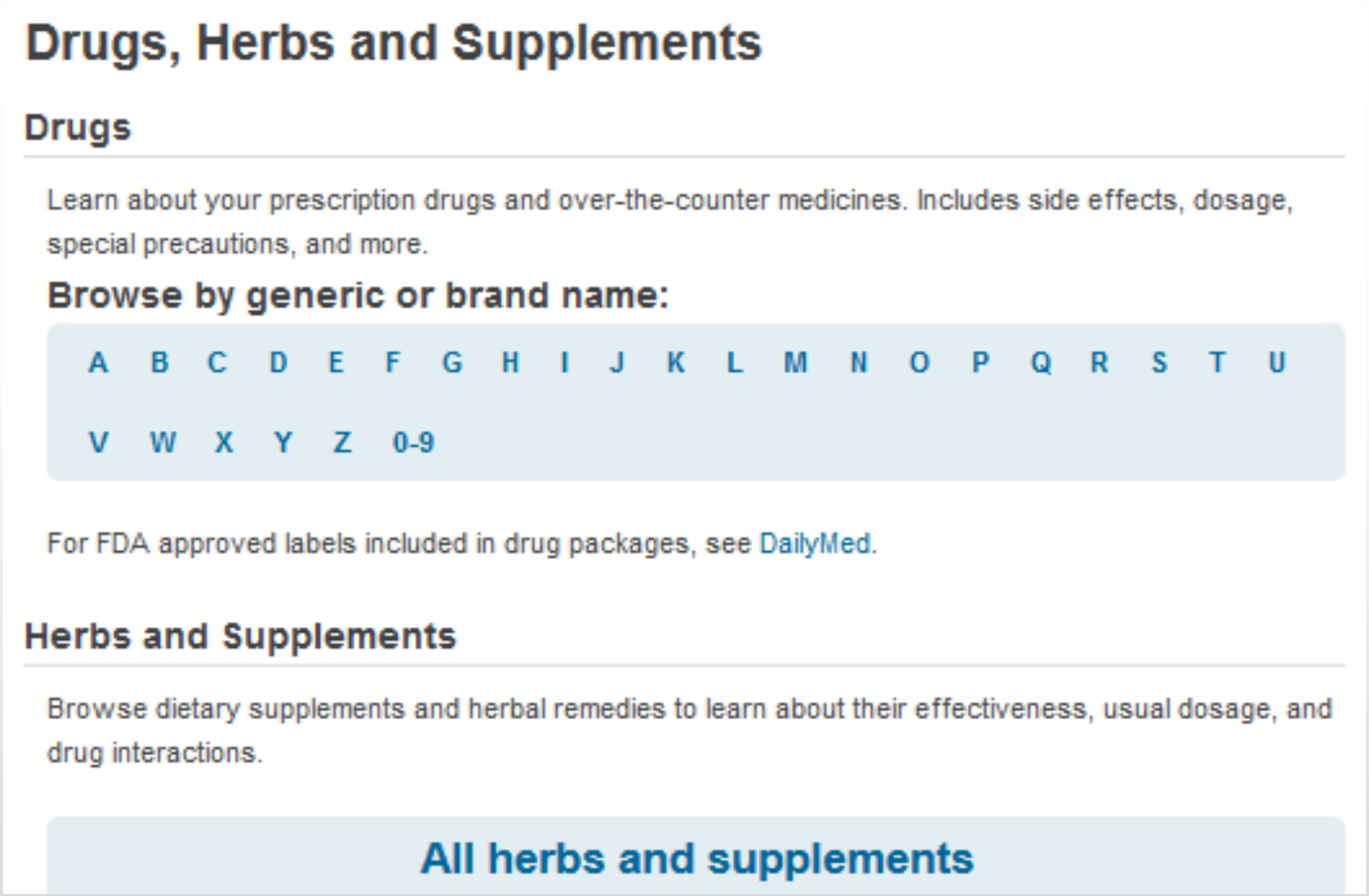
Humans cause most wildfires. It can be an accident, like when people don't take care of their campfire properly, burn debris, or are careless when getting rid of their cigarettes. It can also be on purpose, which is called arson. Lightning and lava also can also causes wildfires. Wildfires are more common when conditions are dry. High winds can make them spread more quickly.

Although there are no guarantees of safety if you live in an area threatened by a wildfire, you can take actions to protect yourself. You should have a disaster plan. Being prepared can help reduce fear, anxiety, and losses. If you do experience a disaster, it is normal to feel stressed. You may need help in finding ways to cope.

*Federal Emergency Management Agency*

Get Wildfires updates by email

# MedlinePlus Drugs & Supplements



# Lab Test Information

## Red Cell Distribution Width

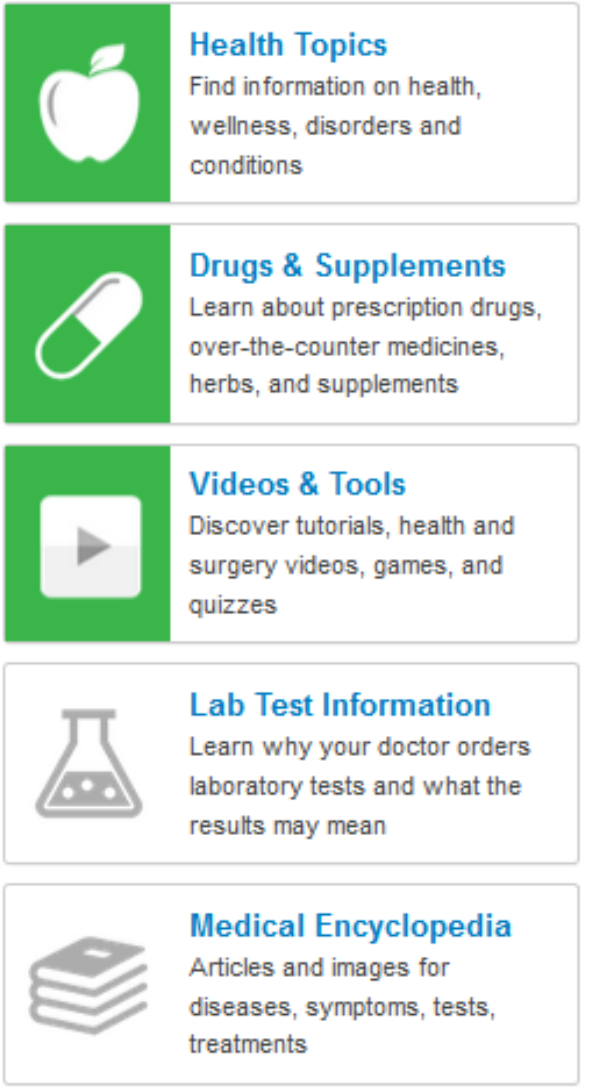
### What is a Red Cell Distribution Width Test?

A red cell distribution width (RDW) test is a measurement of the range in the volume and size of your red blood cells (erythrocytes). Red blood cells move oxygen from your lungs to every cell in your body. Your cells need oxygen to grow, reproduce, and stay healthy. If your red blood cells are larger than normal, it could indicate a medical problem.

Other names: RDW-SD (standard deviation) test, Erythrocyte Distribution Width

### What is it used for?

The RDW blood test is often part of a complete blood count (CBC), a test that measures many different components of your blood, including red cells. The RDW test is commonly used to diagnose anemia, a condition in which your red blood cells can't carry enough oxygen to the rest of your body. The RDW test may also be used to diagnose:



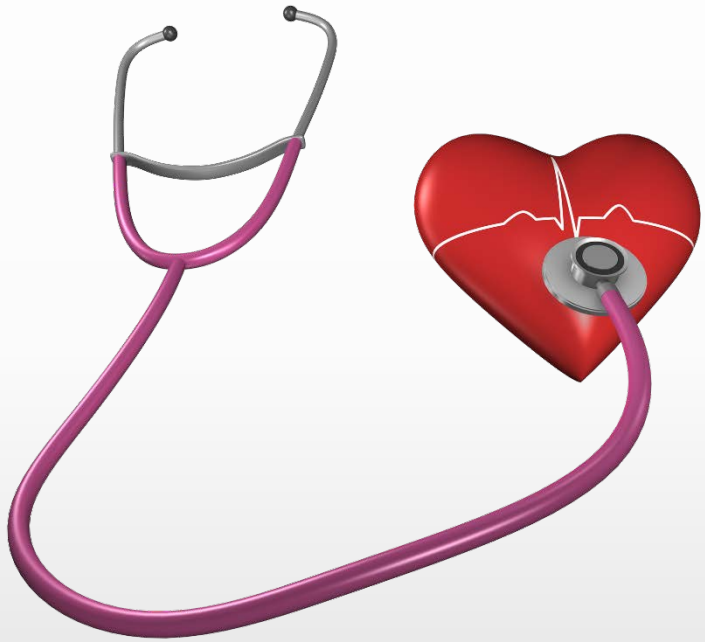
# Quality Guidelines

- Accurate, science- based information
- Information appropriate for MedlinePlus audience & easy to use
- List of links are reviewed
- Preference given to pages free from advertising
- Availability and maintenance of webpage

# Available on Any Device

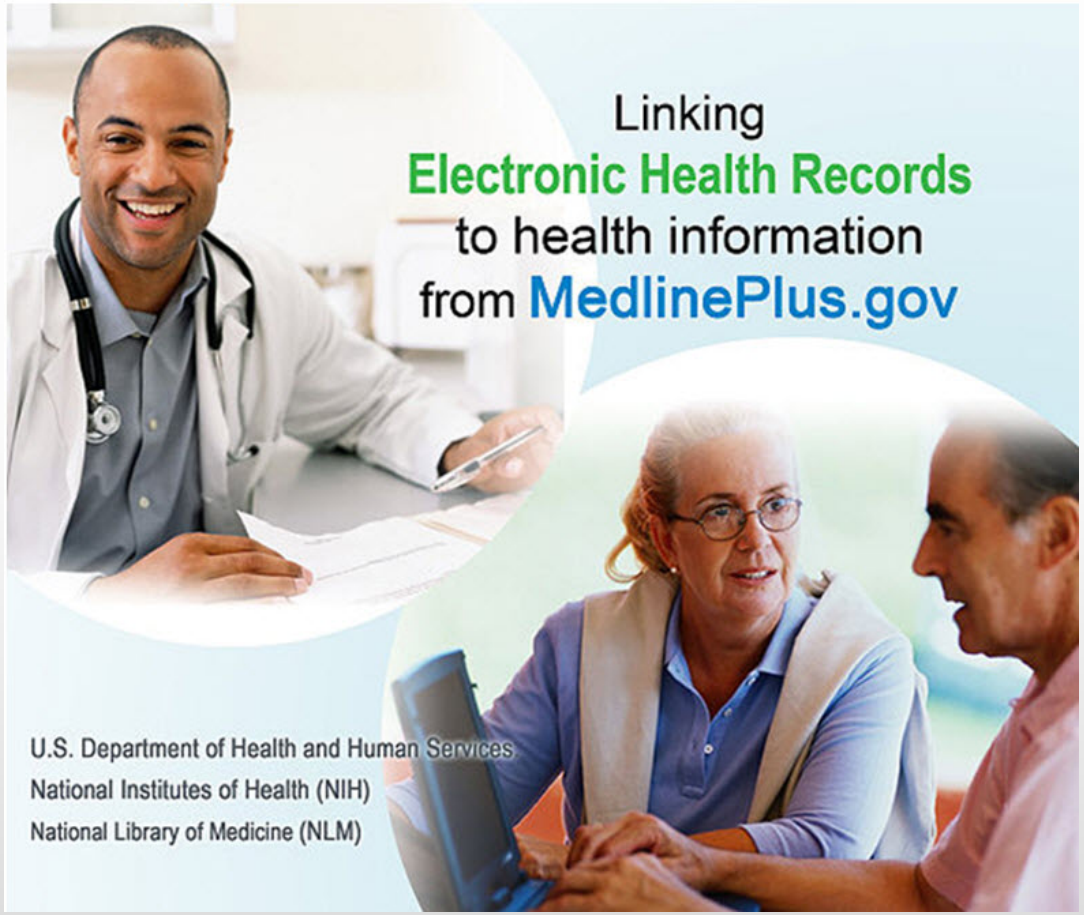
# MedlinePlus

A cardiologist frequently has patients ask for a picture of a stent to better understand a recommended procedure. Locate this patient education information.

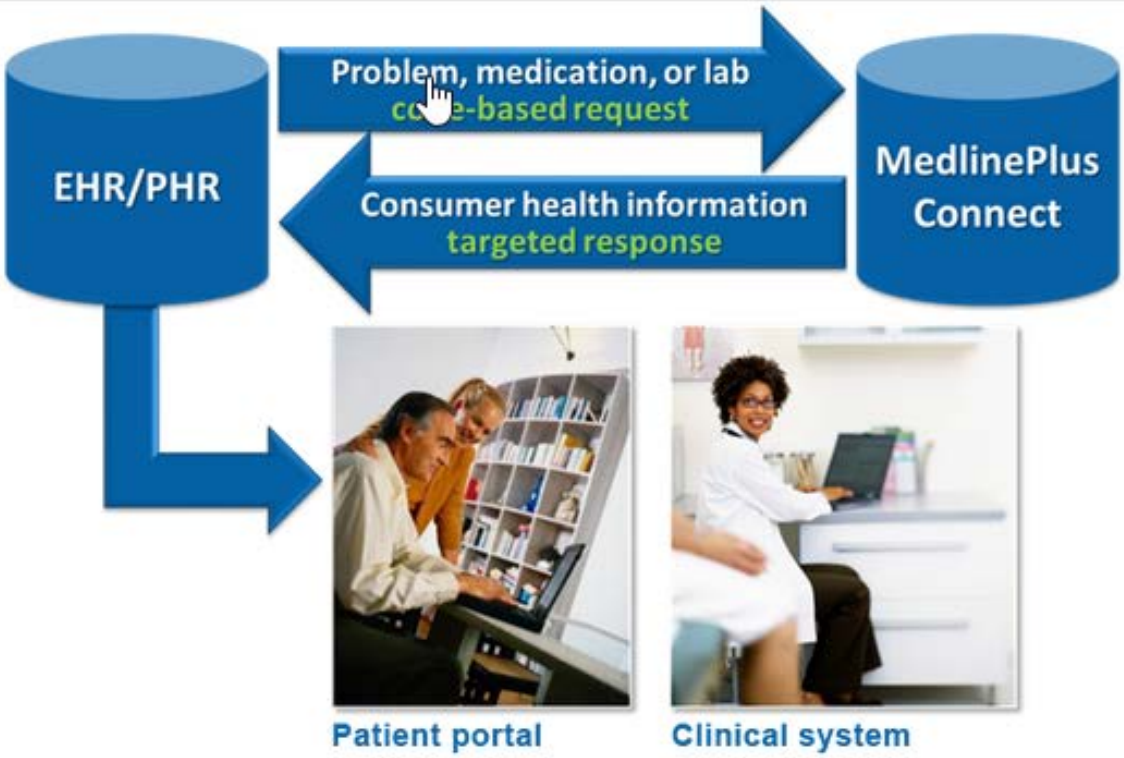


**MedlinePlus.gov**

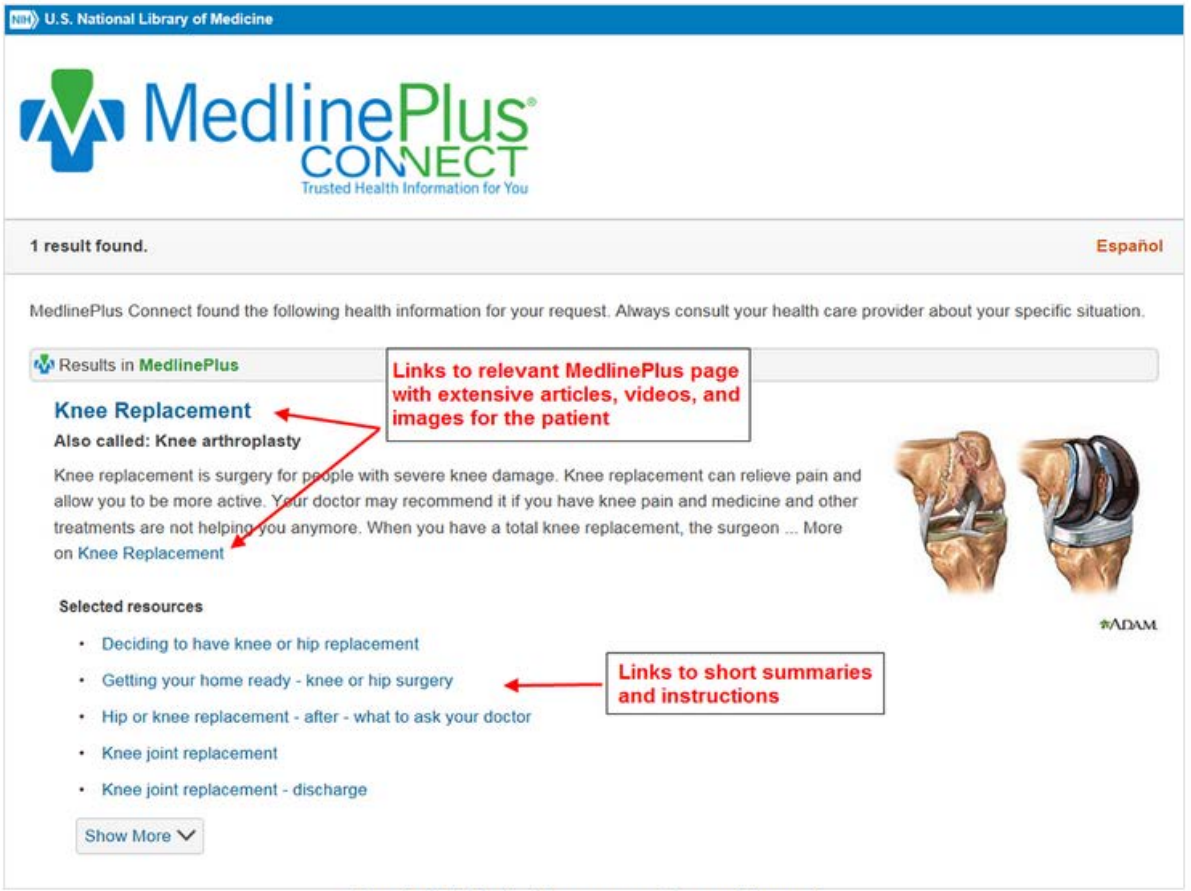
# MedlinePlus Connect



# MedlinePlus Connect



# MedlinePlus Connect




Sample Web Application response for a problem code

# MedlinePlus Connect

Online web application demonstration

More information about MedlinePlus Connect is available at:
medlineplus.gov/connect

HealthReach
Health Information In Many Languages

NIH U.S. National Library of Medicine

Home | Patient Materials | Provider Information | A-Z Index

A A A

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

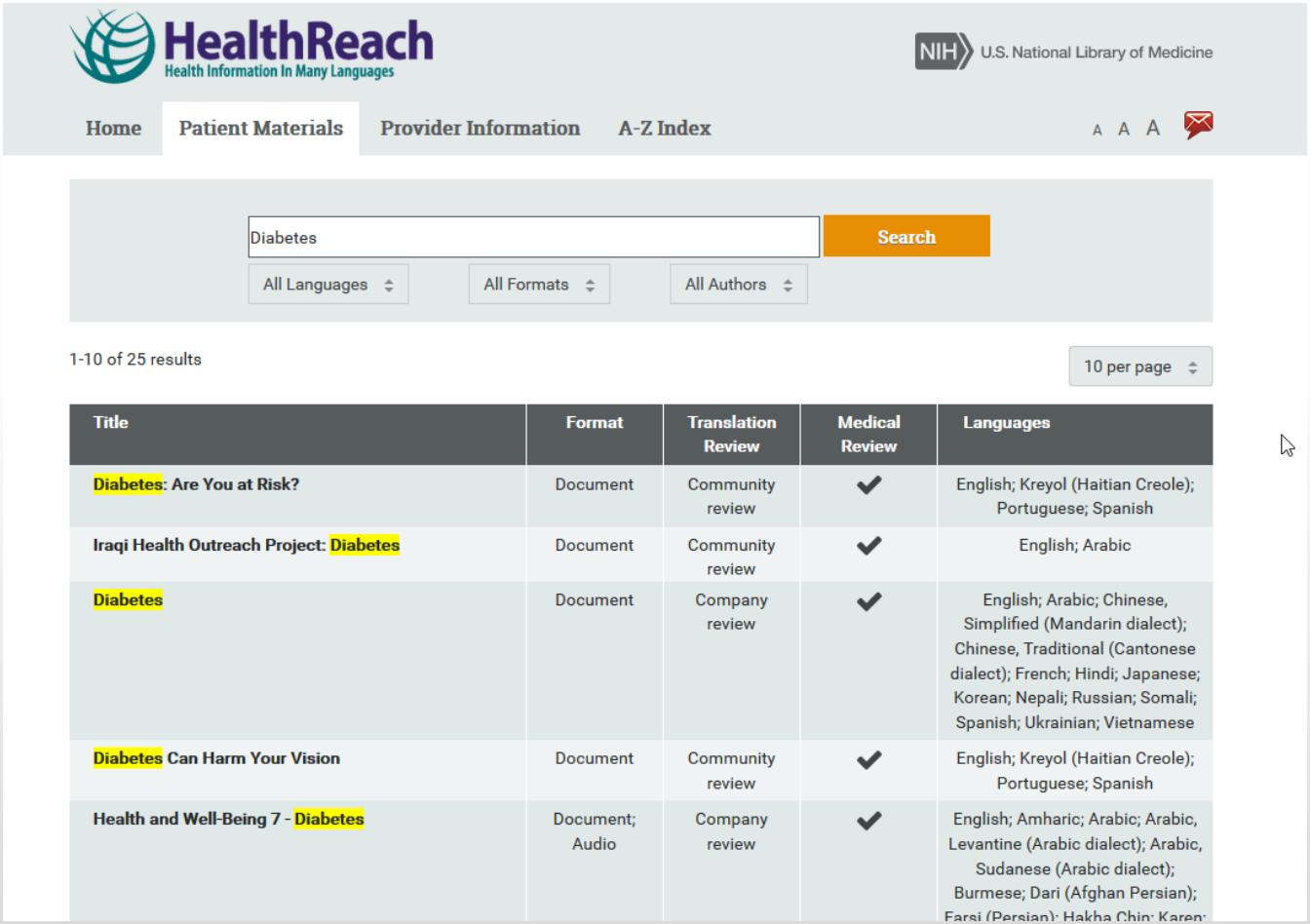
Browse the entire collection of patient education materials and provider information tools by topic or category

# Information available in HealthReach

- Health education materials in various languages and formats (brochures, fact sheets, videos)
- Provider tools (including best practices, cultural information, and effective use of interpreters)
- Special collections on Emergency and Disaster, Women's Health and Mental Health
- English language collection on Opioid use/treatment that will be translated in 2018

**Healthreach.nlm.nih.gov**

# Patient materials in HealthReach




| Title | Format | Translation Review | Medical Review | Languages |
|---|---|---|---|---|
| Diabetes: Are You at Risk? | Document | Community review | ✔ | English; Kreyol (Haitian Creole); Portuguese; Spanish |
| Iraqi Health Outreach Project: Diabetes | Document | Community review | ✔ | English; Arabic |
| Diabetes | Document | Company review | ✔ | English; Arabic; Chinese, Simplified (Mandarin dialect); Chinese, Traditional (Cantonese dialect); French; Hindi; Japanese; Korean; Nepali; Russian; Somali; Spanish; Ukrainian; Vietnamese |
| Diabetes Can Harm Your Vision | Document | Community review | ✔ | English; Kreyol (Haitian Creole); Portuguese; Spanish |
| Health and Well-Being 7 - Diabetes | Document; Audio | Company review | ✔ | English; Amharic; Arabic; Arabic, Levantine (Arabic dialect); Arabic, Sudanese (Arabic dialect); Burmese; Dari (Afghan Persian); Farsi (Persian); Hakha Chin; Karen; |

# 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.

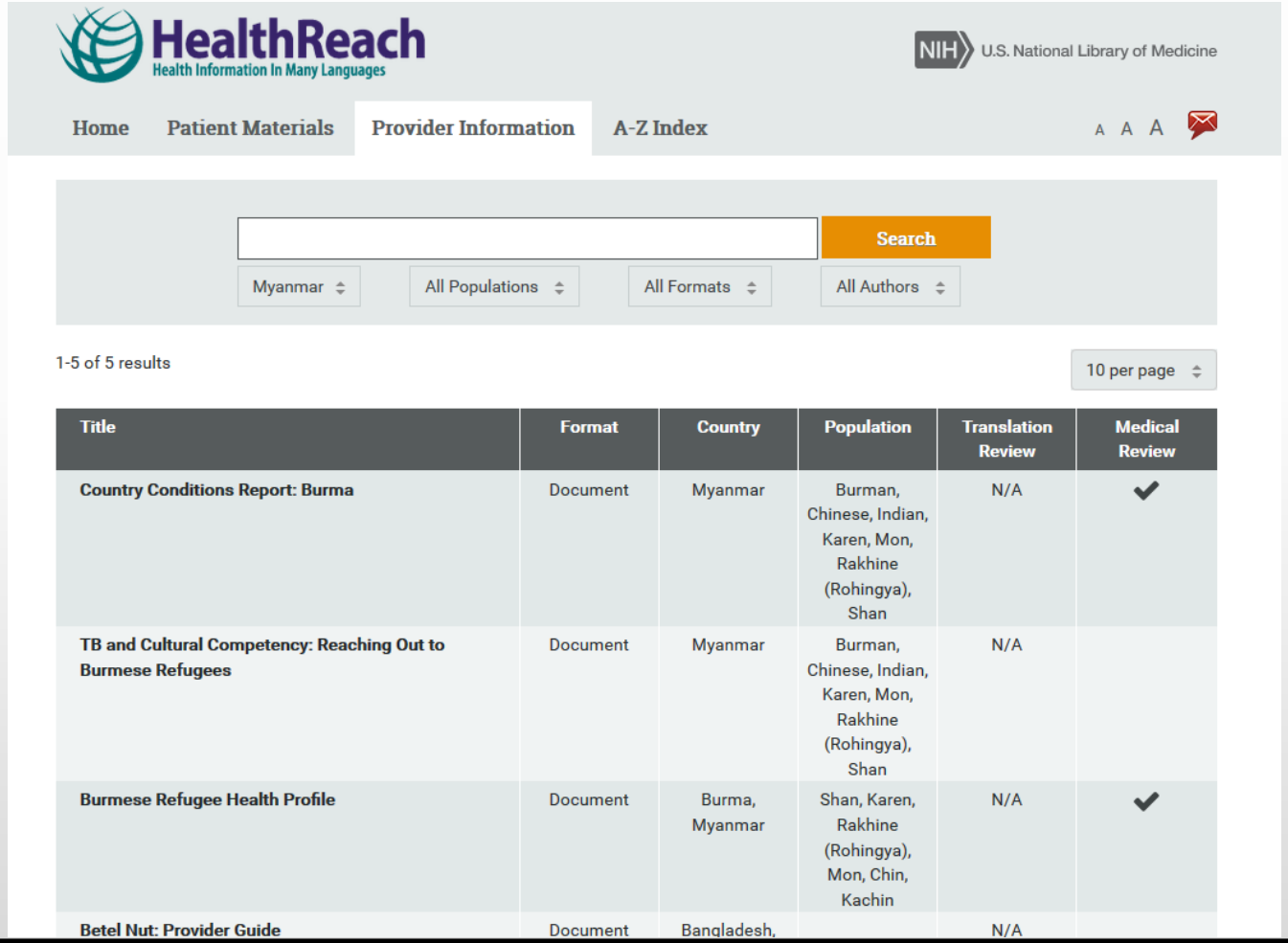
داء السكري هو مرض يؤدي إلى عدم قدرة الجسم على الاستفادة من الطعام الذي يتناوله الإنسان في توليد الطاقة المناسبة، فخلايا الجسم تحتاج للطاقة آي تعيش وتنمو.

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 أيضًا.

# Provider materials in HealthReach




| Title | Format | Country | Population | Translation Review | Medical Review |
|---|---|---|---|---|---|
| **Country Conditions Report: Burma** | Document | Myanmar | Burman, Chinese, Indian, Karen, Mon, Rakhine (Rohingya), Shan | N/A | ✔ |
| **TB and Cultural Competency: Reaching Out to Burmese Refugees** | Document | Myanmar | Burman, Chinese, Indian, Karen, Mon, Rakhine (Rohingya), Shan | N/A | |
| **Burmese Refugee Health Profile** | Document | Burma, Myanmar | Shan, Karen, Rakhine (Rohingya), Mon, Chin, Kachin | N/A | ✔ |
| **Betel Nut: Provider Guide** | Document | Bangladesh, | | N/A | |

## Torture Methods

**FORCED LABOR** continues and these camps are reportedly worse than in typical prisons. The food is often rice mixed with stones or rat feces. Proper medical care is almost nonexistent. The feet of prisoners are chained and they typically have to work long hours doing hard manual labor.

**STRESS POSITIONS** force prisoners to sit, squat, and stand in the same position for prolonged periods of time. The **SEMIGWA DANCE**, based on a traditional Burmese performance, forces prisoners to crawl over gravel on their knees and elbows with feet and hands in the air. The **MOTORCYCLE POSITION** requires prisoners to balance on the balls of their feet, imitating riding a motorcycle, while making engine noises. The **AIRPLANE POSITION** forces prisoners to balance on one foot while holding their arms and other leg out and simultaneously make airplane noises.

**BEATINGS** with batons, truncheons, rubber cords, bamboo sticks and broomsticks are used during interrogations if the prisoner cannot or does not answer questions to the satisfaction of the interrogator. Some report being tied head down to a seesaw and beaten for hours until the pressure in their head became unbearable. Prisoners report witnessing others being beaten to death.

**BURNING** with lighters and lit cigarettes has been reportedly used against political prisoners.

**SEXUAL ASSAULT, RAPE** and the threat of both have been used against both female and male political

## Current Situation

**Languages Spoken:** Burmese (official), minority ethnic groups have their own languages
**Population:** 55,746,253
**Religion:** Buddhist 89%, Christian 4% Muslim 4%, Animist 1%, other 2%
**Ethnic Groups:** Burman 68%, Shan 9%, Karen 7%, Rakhine 4%, Chinese 3%, Indian 2%, Mon 2%, other 5%

**ETHNIC CLEANSING** has resulted from ongoing violence since 1948 between the Burmese Army and minority ethnic groups. There are a 135 ethnic groups in Burma often classified into 8 groups. The military campaign targets minority groups such as the Karen, Chin, Shan, Rakhine, Arakanese, Mon, Kachin and Rohingya. Ethnic minority insurgent groups and civilians accuse the military of attacking villagers to assimilate them into mainstream Burman language, culture, and religion. Reports of torture against Kachin people accused of being affiliated with the Kachin Independence Army surfaced in 2014. As of 2015, ceasefire deals have been signed with all sixteen rebel groups. Yet, Rohingya continue to be targeted.

**ELECTIONS** were held in 2012 and were viewed as transparent and fair, leading to Aung San Suu Kyi being elected to parliament, as well as large scale political prisoner release. However, government reforms have stalled since 2014, when elections were canceled and constitutional reform has yet to be addressed. Discriminatory legislation aimed at disenfranchising Rohingya called the Rakhine State Action Plan, seeks to further segregate Rohingya with restrictions on whom they can marry, how many children they can have, religious freedoms, and freedom of movement.

**HUMAN TRAFFICKING** of men, women, and children

Country Conditions Report
Burma

## 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

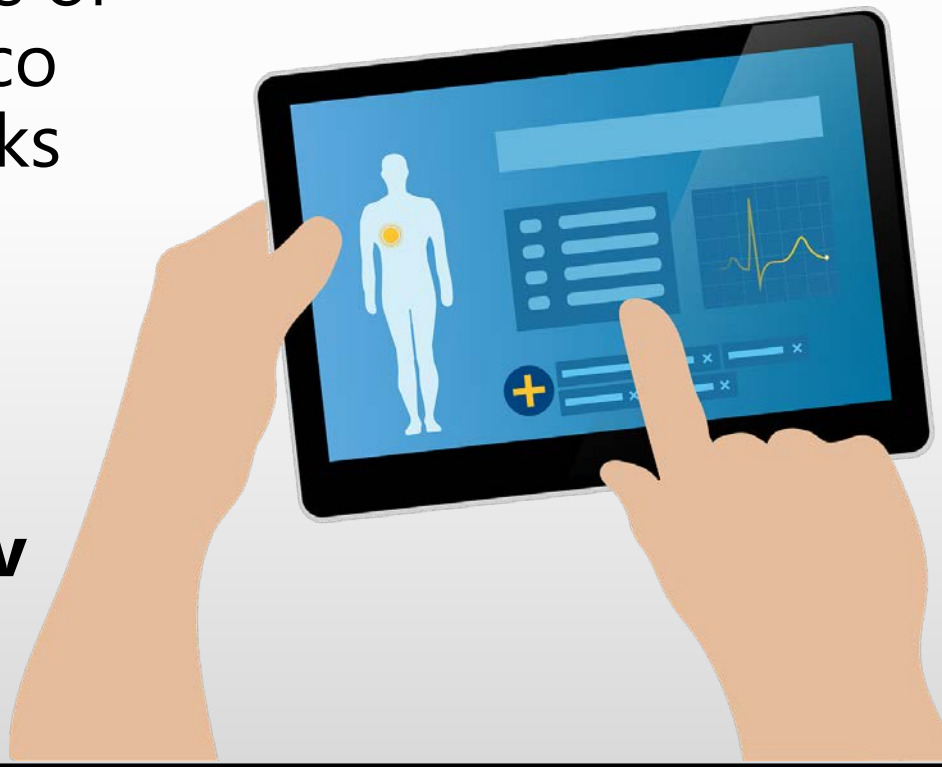
### Opioid treatment

- 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.

# HealthReach

Locate some information about the health effects of using smokeless tobacco for someone who speaks Chinese (traditional).



**Healthreach.nlm.nih.gov**

# HealthReach

A provider has seen an increase in patients from South Sudan. Find some information that will help them learn more about this country.

**Healthreach.nlm.nih.gov**

NIH U.S. National Library of Medicine

Share This Page

Genetics Home Reference

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

# Uses for Genetics Home Reference

Consumers can search for information about:

- Genetic health conditions
- Genes
- Chromosomes & DNA

Also available:

- Resources
- Help me understand genetics tutorial

**ghr.nlm.nih.gov**

Genetics Home Reference | Your Guide to Understanding Genetic Conditions

Search

Health Conditions | Genes | Chromosomes & mtDNA | Resources | Help Me Understand Genetics

# Andersen-Tawil syndrome

Printable PDF | Open All | Close All

## Description

Anderson-Tawil syndrome is a disorder that causes episodes of muscle weakness (periodic paralysis), changes in heart rhythm (arrhythmia), and developmental abnormalities. The most common changes affecting the heart are ventricular arrhythmia, which is a disruption in the rhythm of the heart's lower chambers, and long QT syndrome. Long QT syndrome is a heart condition that causes the heart (cardiac) muscle to take longer than usual to recharge between beats. If untreated, the irregular heartbeats can lead to discomfort, fainting (syncope), or cardiac arrest.

Physical abnormalities associated with Andersen-Tawil syndrome typically affect the head, face, and limbs. These features often include a very small lower jaw (micrognathia), dental abnormalities, low-set ears, widely spaced eyes, and unusual curving of the fingers or toes (clinodactyly). Some affected people also have short stature and an abnormal curvature of the spine (scoliosis).

Two types of Andersen-Tawil syndrome are distinguished by their genetic causes. Type 1, which accounts for about 60 percent of all cases of the disorder, is caused by mutations in the *KCNJ2* gene. The remaining 40 percent of cases are designated as type 2; the cause of these cases is unknown.

### Related Information

What does it mean if a disorder seems to run in my family?

What is the prognosis of a genetic condition?

Genetic and Rare Diseases Information Center

## Andersen Tawil syndrome

**Synonyms:** Andersen Syndrome; Andersen cardiodysrhythmic periodic paralysis; Long QT syndrome 7; Periodic paralysis, potassium-sensitive cardiodysrhythmic type; Potassium-sensitive periodic paralysis, ventricular ectopy, and dysmorphic features

**Modes of inheritance:** Autosomal dominant inheritance (HPO, OMIM, Orphanet)

### Summary

**Excerpted from the *GeneReview*:** Long QT Syndrome

Long QT syndrome (LQTS) is a cardiac electrophysiologic disorder, characterized by QT prolongation and T-wave abnormalities on the ECG and the ventricular tachycardia torsade de pointes (TdP). TdP is usually self-terminating, thus causing a syncopal event, the most common symptom in individuals with LQTS. Syncope typically occurs during exercise and high emotions, less frequently at rest or during sleep, and usually without warning. In some instances, TdP degenerates to ventricular fibrillation and causes aborted cardiac arrest (if the individual is defibrillated) or sudden death. Approximately 50% of individuals with a pathogenic variant in one of the genes associated with LQTS have symptoms, usually one to a few syncopal spells. While cardiac events may occur from infancy through middle age, they are most common from the pre-teen years through the 20s. Some types of LQTS are associated with a phenotype extending beyond cardiac arrhythmia. In addition to the prolonged QT interval, associations include muscle weakness and facial dysmorphism in Andersen-Tawil syndrome (LQTS type 7), hand/foot, facial, and neurodevelopmental features in Timothy syndrome (LQTS type 8) and profound sensorineural hearing loss in Jervell and Lange-Nielson syndrome.

**Full text of *GeneReview* (by section):**

Summary | Diagnosis | Clinical Characteristics | Genetically Related (Allelic) Disorders | Differential Diagnosis | Management | Genetic Counseling | Resources | Molecular Genetics | References | Chapter Notes

**Authors:**

Mariëlle Alders | Imke Christiaans view full author information

### Available tests

63 tests are in the database for this condition.
Check Related conditions for additional relevant tests.

**Clinical tests** (63 available)

**Molecular Genetics Tests**

Deletion/duplication analysis (26)
Targeted variant analysis (8)
Sequence analysis of the entire coding region (62)
Mutation scanning of the entire coding region (1)
Sequence analysis of select exons (2)

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# Andersen-Tawil Syndrome

Jeffrey M Statland, MD, Rabi Tawil, MD, and Shannon L Venance, MD, PhD.

Author Information

Initial Posting: November 22, 2004; Last Revision: September 3, 2015.

## Summary

Go to:

**Clinical characteristics.** Andersen-Tawil syndrome (ATS) is characterized by a triad of episodic flaccid muscle weakness (i.e., periodic paralysis), ventricular arrhythmias and prolonged QT interval, and anomalies including low-set ears, widely spaced eyes, small mandible, fifth-digit clinodactyly, syndactyly, short stature, and scoliosis. Affected individuals present in the first or second decade with either cardiac symptoms (palpitations and/or syncope) or weakness that occurs spontaneously following prolonged rest or following rest after exertion. Mild permanent weakness is common. Mild learning difficulties and a distinct neurocognitive phenotype (i.e., deficits in executive function and abstract reasoning) have been described.

**Diagnosis/testing.** The diagnosis of ATS is suspected in an individual with characteristic clinical and ECG findings.

#170390
Table of Contents


- Title
- Phenotype-Gene Relationships
- Clinical Synopsis
- Phenotypic Series
- Text
  - Description
  - Clinical Features
  - Other Features
  - Clinical Management
  - Mapping
  - Molecular Genetics
- References
- Contributors
- Creation Date
- Edit History


ICD+

# 170390

# ANDERSEN CARDIODYSRHYTHMIC PERIODIC PARALYSIS

*Alternative titles; symbols*

ANDERSEN SYNDROME
LONG QT SYNDROME 7; LQT7
ANDERSEN-TAWIL SYNDROME; ATS
PERIODIC PARALYSIS, POTASSIUM-SENSITIVE CARDIODYSRHYTHMIC TYPE

## Phenotype-Gene Relationships

| Location | Phenotype | Phenotype MIM number | Inheritance | Phenotype mapping key | Gene/Locus | Gene/Locus MIM number |
|---|---|---|---|---|---|---|
| 17q24.3 | Andersen syndrome | 170390 | AD | 3 | KCNJ2 | 600681 |

Clinical Synopsis | Phenotypic Series

## TEXT

A number sign (#) is used with this entry because Andersen-Tawil syndrome is caused by heterozygous mutation in the KCNJ2 gene (600681) on chromosome 17q24.

## Description

Andersen-Tawil syndrome is an autosomal dominant multisystem channelopathy characterized by periodic paralysis, ventricular arrhythmias, and distinctive dysmorphic facial or skeletal features.

NIH U.S. National Library of Medicine

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Your Guide to Understanding Genetic Conditions

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Health Conditions | Genes | Chromosomes & mtDNA | Resources | Help Me Understand Genetics

# KCNJ2 gene

potassium voltage-gated channel subfamily J member 2

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## Normal Function

The *KCNJ2* gene belongs to a large family of genes that produce potassium channels. These channels, which transport positively charged atoms (ions) of potassium out of cells, play key roles in a cell's ability to generate and transmit electrical signals.

The specific function of a potassium channel depends on its protein components and its location in the body. Channels made with the KCNJ2 protein are active in muscles used for movement (skeletal muscles) and heart (cardiac) muscle. In skeletal muscle, these channels play an important role in the pattern of muscle tensing (contraction) and relaxation that allows the body to move. In the heart, the channels are involved in recharging the cardiac muscle after each heartbeat to maintain a regular rhythm. Channels formed with the KCNJ2 protein may also be involved in bone development, but their role in this process is unclear.

Researchers have determined that a molecule called PIP2 must bind to channels made with the KCNJ2 protein for the channels to function normally. PIP2 activates the ion channel and helps it

**Related Information**

What is DNA?

What is a gene?

How do genes direct the production of proteins?

More about How Genes Work

Genetics Home Reference | Your Guide to Understanding Genetic Conditions

Search

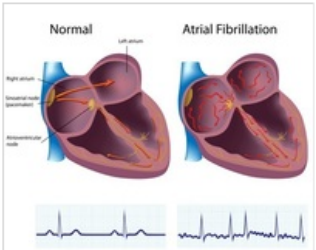
Health Conditions | Genes | Chromosomes & mtDNA | Resources | Help Me Understand Genetics

# familial atrial fibrillation

Printable PDF | Open All | Close All

## Description

Familial atrial fibrillation is an inherited abnormality of the heart's normal rhythm. Atrial fibrillation is characterized by episodes of uncoordinated electrical activity (fibrillation) in the heart's upper chambers (the atria), which cause a fast and irregular heartbeat. If untreated, this abnormal heart rhythm (arrhythmia) can lead to dizziness, chest pain, a sensation of fluttering or pounding in the chest (palpitations), shortness of breath, or fainting (syncope). Atrial fibrillation also increases the risk of stroke and sudden death. Complications of atrial fibrillation can occur at any age, although some people with this heart condition never experience any health problems associated with the disorder.




Enlarge

## Frequency

## Genetic Changes

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**Biochemistry. 5th edition.**

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## Section 13.5 Specific Channels Can Rapidly Transport Ions Across Membranes

Pumps and secondary transporters can transport ions at rates approaching several thousand ions per second. Other membrane proteins, *ion channels*, which are passive transport systems, are capable of ion-transport rates that are more than 1000 times as high. These rates of transport through ion channels are close to rates expected for ions diffusing freely through aqueous solution. Yet, ion channels are not simply tubes that span membranes through which ions can rapidly flow. Instead, they are highly sophisticated molecular machines that respond to chemical and physical changes in their environments and undergo precisely timed conformational changes that facilitate their roles as essential components of the nervous and other systems.

Several key properties characterize ion channels:

1. *Ion channels can be highly selective for particular ions*. For example, some channels allow the flow of $K^+$ very effectively but do not allow appreciable levels of $Na^+$ to cross the membrane. Other channels transport positively charged ions (cations), but block the flow of negatively charged ions (anions). The selectivities of some ion-

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## KCNJ2 potassium voltage-gated channel subfamily J member 2 [ *Homo sapiens* (human) ]

Gene ID: 3759, updated on 22-Oct-2017

### Summary

| | |
|---|---|
| **Official Symbol** | KCNJ2 provided by HGNC |
| **Official Full Name** | potassium voltage-gated channel subfamily J member 2 provided by HGNC |
| **Primary source** | HGNC:HGNC:6263 |
| **See related** | Ensembl:ENSG00000123700 MIM:600681; Vega:OTTHUMG00000180351 |
| **Gene type** | protein coding |
| **RefSeq status** | REVIEWED |
| **Organism** | Homo sapiens |
| **Lineage** | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo |
| **Also known as** | IRK1; LQT7; SQT3; ATFB9; HHIRK1; KIR2.1; HHBIRK1 |
| **Summary** | Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Mutations in this gene have been associated with Andersen syndrome, which is characterized by periodic paralysis, cardiac arrhythmias, and dysmorphic features. [provided by RefSeq, Jul 2008] |
| **Orthologs** | mouse all |

### Genomic context

**Location:** 17q24.3

See KCNJ2 in Genome Data Viewer Map Viewer

**Exon count:** 2

| Annotation release | Status | Assembly | Chr | Location |
|---|---|---|---|---|

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Genetics Home Reference

Your Guide to Understanding Genetic Conditions

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# chromosome 17

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## Description

Humans normally have 46 chromosomes in each cell, divided into 23 pairs. Two copies of chromosome 17, one copy inherited from each parent, form one of the pairs. Chromosome 17 spans about 81 million DNA building blocks (base pairs) and represents between 2.5 and 3 percent of the total DNA in cells.

Identifying genes on each chromosome is an active area of genetic research. Because researchers use different approaches to predict the number of genes on each chromosome, the estimated number of genes varies. Chromosome 17 likely contains 1,200 to 1,300 genes that provide instructions for making proteins. These proteins perform a variety of different roles in the body.

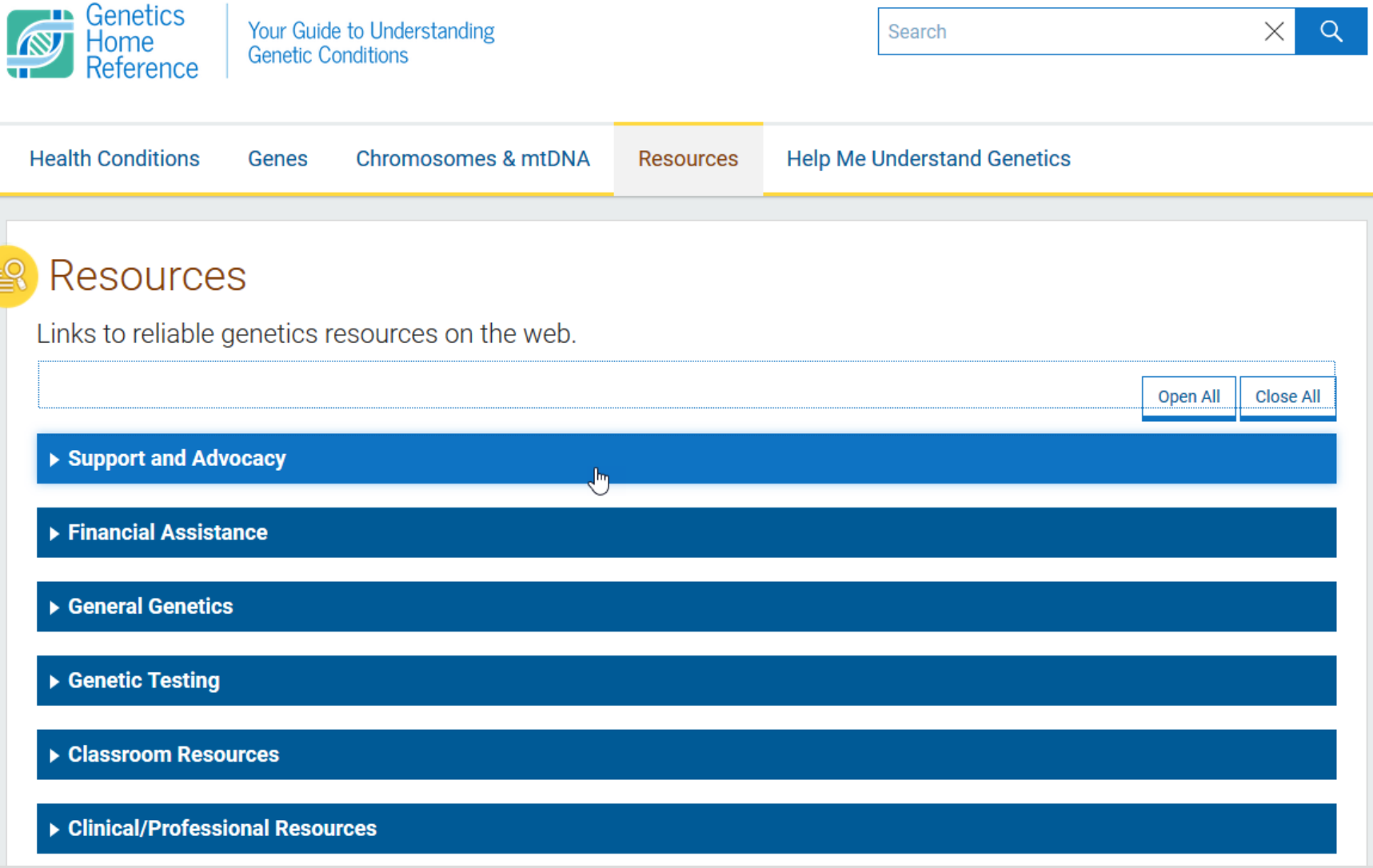
### Related Information

What is DNA?

What is a chromosome?

How many chromosomes do people have?

## Health Conditions Related to Chromosomal Changes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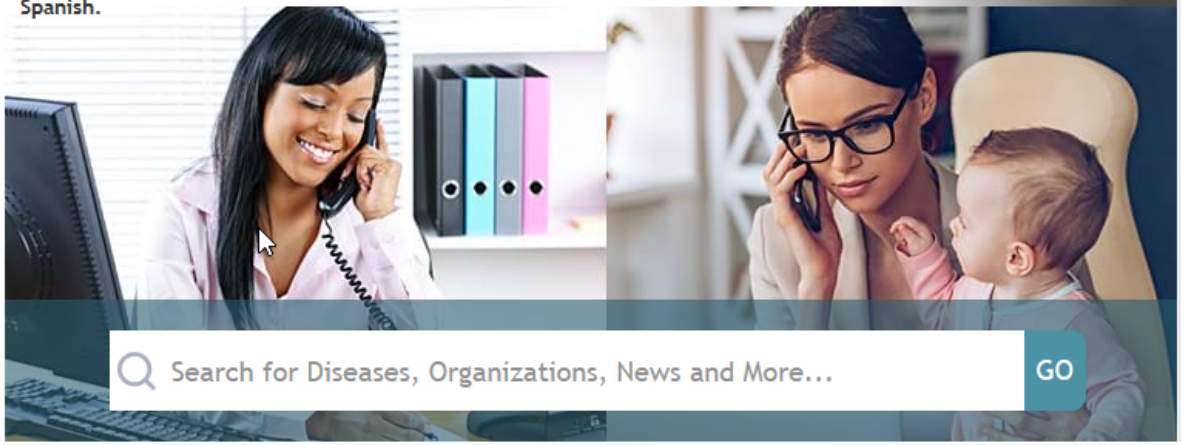
NIH National Center for Advancing Translational Sciences | GARD Genetic and Rare Diseases Information Center

1-888-205-2311

Diseases | Guides | News | About GARD | En Español

GARD Information Specialists can provide you with current, reliable, and easy to understand information about rare or genetic diseases in English or Spanish.




**Browse Diseases**
View diseases by alphabetical order

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Search for advocacy organizations

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Learn about medical and genetics terms

## About GARD

The Genetic and Rare Diseases Information Center (GARD) is a program of the National Center for Advancing Translational Sciences (NCATS) and is funded by two parts of the National Institutes of Health (NIH): NCATS and the National Human Genome Research Institute (NHGRI). GARD provides the public with access to current, reliable, and easy-to-understand information about rare or genetic diseases in English or Spanish.

Read more about GARD.

Genetics Home Reference | Your Guide to Understanding Genetic Conditions

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Health Conditions | Genes | Chromosomes & mtDNA | Resources | Help Me Understand Genetics

# Help Me Understand Genetics

An introduction to fundamental topics related to human genetics, including illustrations and basic explanations of genetics concepts.

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## Cells and DNA

Printable Chapter PDF (1MB)

- What is a cell?
- What is DNA?
- What is mitochondrial DNA?
- What is a gene?
- What is a chromosome?
- How many chromosomes do people have?

# What is a cell?

Cells are the basic building blocks of all living things. The human body is composed of trillions of cells. They provide structure for the body, take in nutrients from food, convert those nutrients into energy, and carry out specialized functions. Cells also contain the body's hereditary material and can make copies of themselves.

Cells have many parts, each with a different function. Some of these parts, called organelles, are specialized structures that perform certain tasks within the cell. Human cells contain the following major parts, listed in alphabetical order:

**Cytoplasm (illustration)**
Within cells, the cytoplasm is made up of a jelly-like fluid (called the cytosol) and other structures that surround the nucleus.

**Cytoskeleton**
The cytoskeleton is a network of long fibers that make up the cell's structural framework. The cytoskeleton has several critical functions, including determining cell shape, participating in cell division, and allowing cells to move. It also provides a track-like system that directs the movement of organelles and other substances within cells.

**Endoplasmic reticulum (ER) (illustration)**

**For more information about cells:**

The National Institute of General Medical Sciences has a science education booklet about cells called Inside the Cell.

The Genetic Science Learning Center at the University of Utah offers an interactive introduction to cells and their many functions.

Arizona State University's "Ask a Biologist" provides a description and illustration of each of the cell's organelles.

Queen Mary University of London allows you to explore a 3-D cell and its parts.

# Genetics Home Reference

What is one gene that is associated with Graves Disease?

**ghr.nlm.nih.gov**

# Genetics Home Reference

What is a condition associated with chromosome 20?

**ghr.nlm.nih.gov**

# Drug information

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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.

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## 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

# DailyMed

- Provides FDA label information
- Most up to date drug information submitted to the FDA
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**dailymed.nlm.nih.gov**

# LABEL: ALOGLIPTIN AND METFORMIN HYDROCHLORIDE- alogliptin and metformin hydrochloride tablet, film coated

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**Packager:** Perrigo New York Inc

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home page and represented by the magnifying glass icon. The search functionality can also be found on other pages in the top right of the screen for a desktop/laptop or tablet. On a mobile device, the search tool is accessed by choosing the magnifying glass icon on the top right of the screen.

### What is an NDC code?

Each listed drug product is assigned a unique 10-digit, 3-segment number. This number, known as the NDC, identifies the labeler, product, and trade package size. The first segment, the labeler code, is assigned by the FDA. The NDC code can be found on the outside packaging of the drug.

You can search with this number to find the exact drug you have. For example, the same drug may be produced by many different manufacturers or the same drug may have different dosages. The NDC code would be unique for all of them and can help you distinguish between those result results.

In the search results you many also see a "NDC Item Code (source)." This refers to the NDC code for the original packaging. The other NDC codes refer to repackaged versions.

Mobile Search Tools

NDC Code on a package

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**Note: As FDA indexes SPL, only VA NDF-RT Classifications that the FDA considers scientifically valid and clinically meaningful are used. Therefore, the drug classes that are available for a DailyMed query represent a subset of all VA NDF-RT classifications.**

To find drugs that belong to a specific drug class, type in the drug class in the search box or select from the list of drug classes.

This archive allows the user to **retrieve the label current for a given date**.

**Drug Classes Search**

Enter drug class

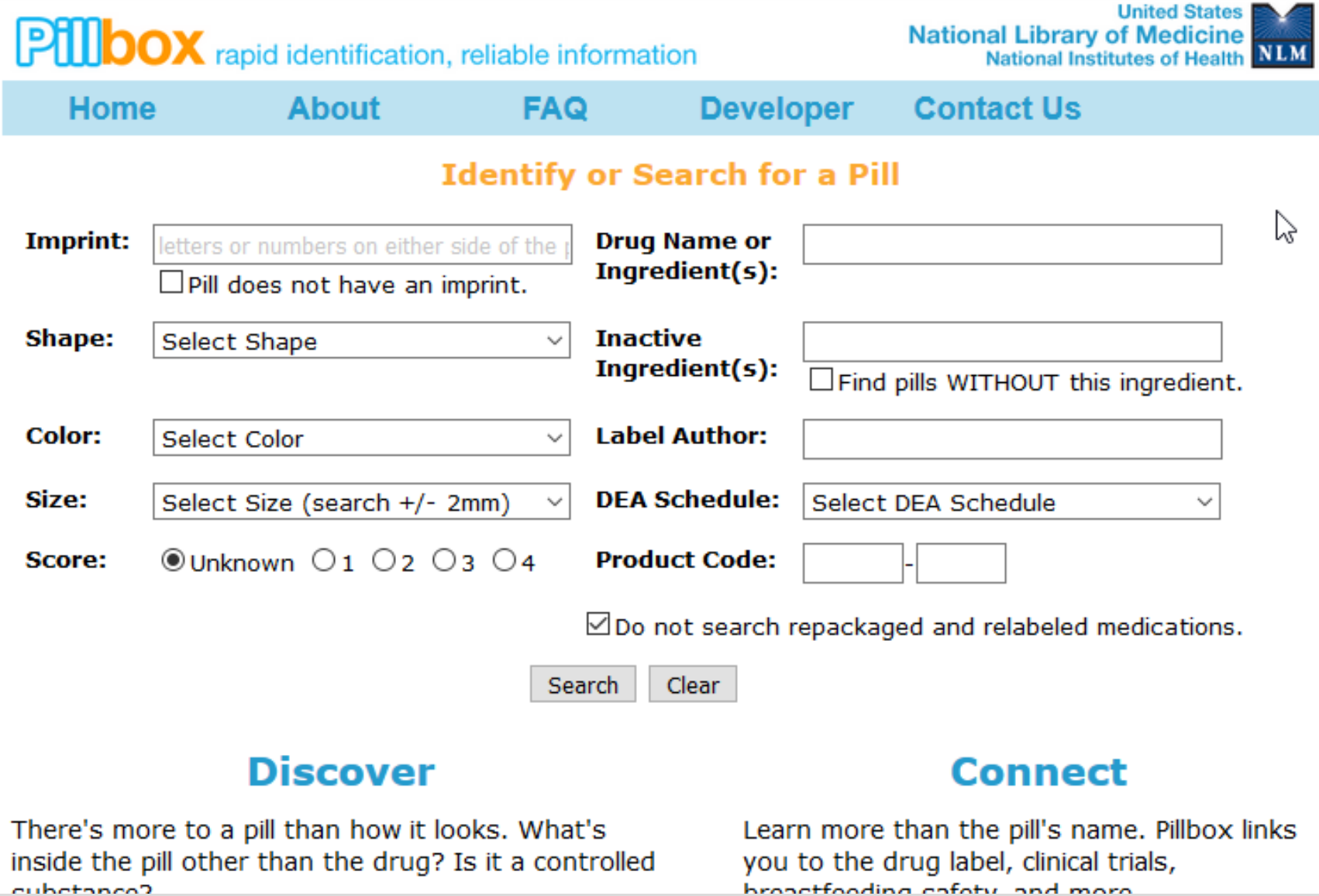
REFINE SEARCH BY ALL FDA Established Pharmacologic Classes VA NDF-RT Classifications All Categories

## LIST OF DRUG CLASSES

# - A | B - C | D - G | H - L | M - O | P - Z

4-Hydroxyphenyl-Pyruvate Dioxygenase Inhibitor [EPC]
5-alpha Reductase Inhibitors [MoA]
5-Lipoxygenase Inhibitors [MoA]
Acetylcholine Release Inhibitor [EPC]
Acetylcholine Releasing Agent [EPC]
Actinomycin [EPC]
Adenosine Deaminase [Chemical/Ingredient]

5-alpha Reductase Inhibitor [EPC]
5-Lipoxygenase Inhibitor [EPC]
Acetyl Aldehyde Dehydrogenase Inhibitors [MoA]
Acetylcholine Release Inhibitors [MoA]
Acidifying Activity [MoA]
Actively Acquired Immunity [PE]
Adenosine Receptor Agonist [EPC]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Select Shape
Inactive Ingredient(s):
Find pills WITHOUT this ingredient.
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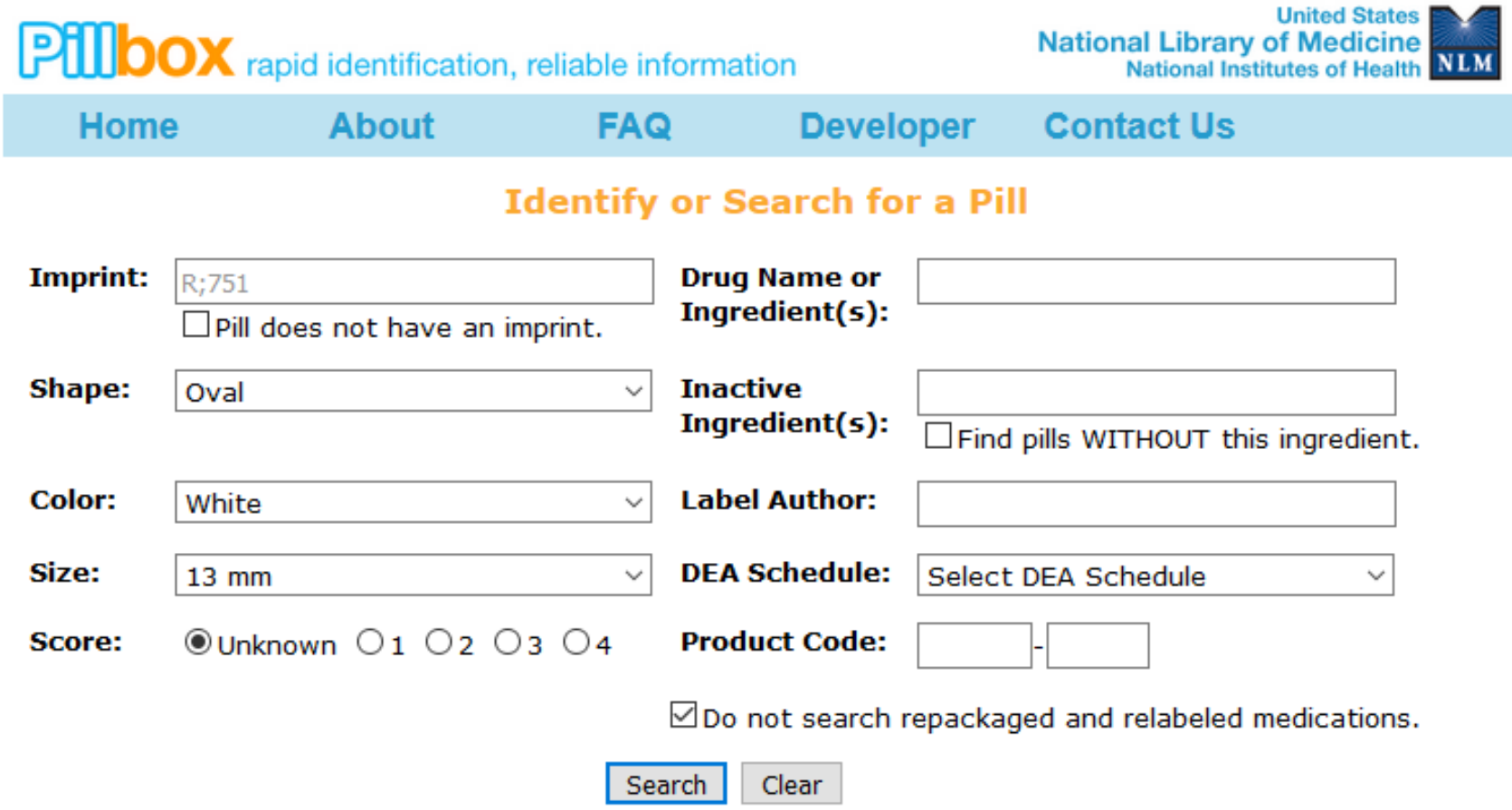
Select Color
Label Author:
Size:
Select Size (search +/- 2mm)
DEA Schedule:
Select DEA Schedule
Score:
Unknown
1
2
3
4
Product Code:
Do not search repackaged and relabeled medications.
Search
Clear
Discover
There's more to a pill than how it looks. What's inside the pill other than the drug? Is it a controlled
Connect
Learn more than the pill's name. Pillbox links you to the drug label, clinical trials,

# Pillbox

- Helps the user identify unknown pills based on physical description
- Provides drug related information once a pill is identified
- Links to other NLM drug resources for more in-depth drug specific information

**pillbox.nlm.nih.gov**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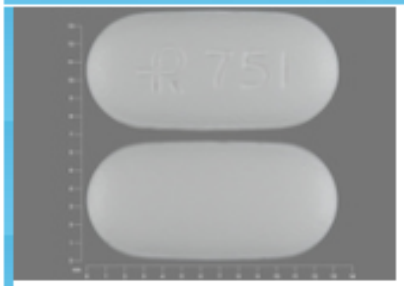


**Name:** Glyburide and Metformin Hydrochloride - Glyburide 1.25 MG / Metformin hydrochloride 250 MG Oral Tablet

**Ingredient(s):** GLYBURIDE mixture with METFORMIN HYDROCHLORIDE

**Imprint:** R;751

**Label Author:** Actavis Elizabeth LLC

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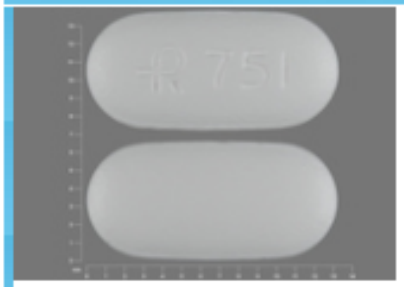


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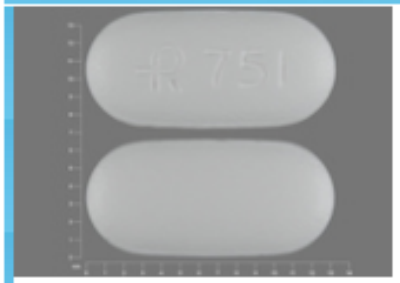

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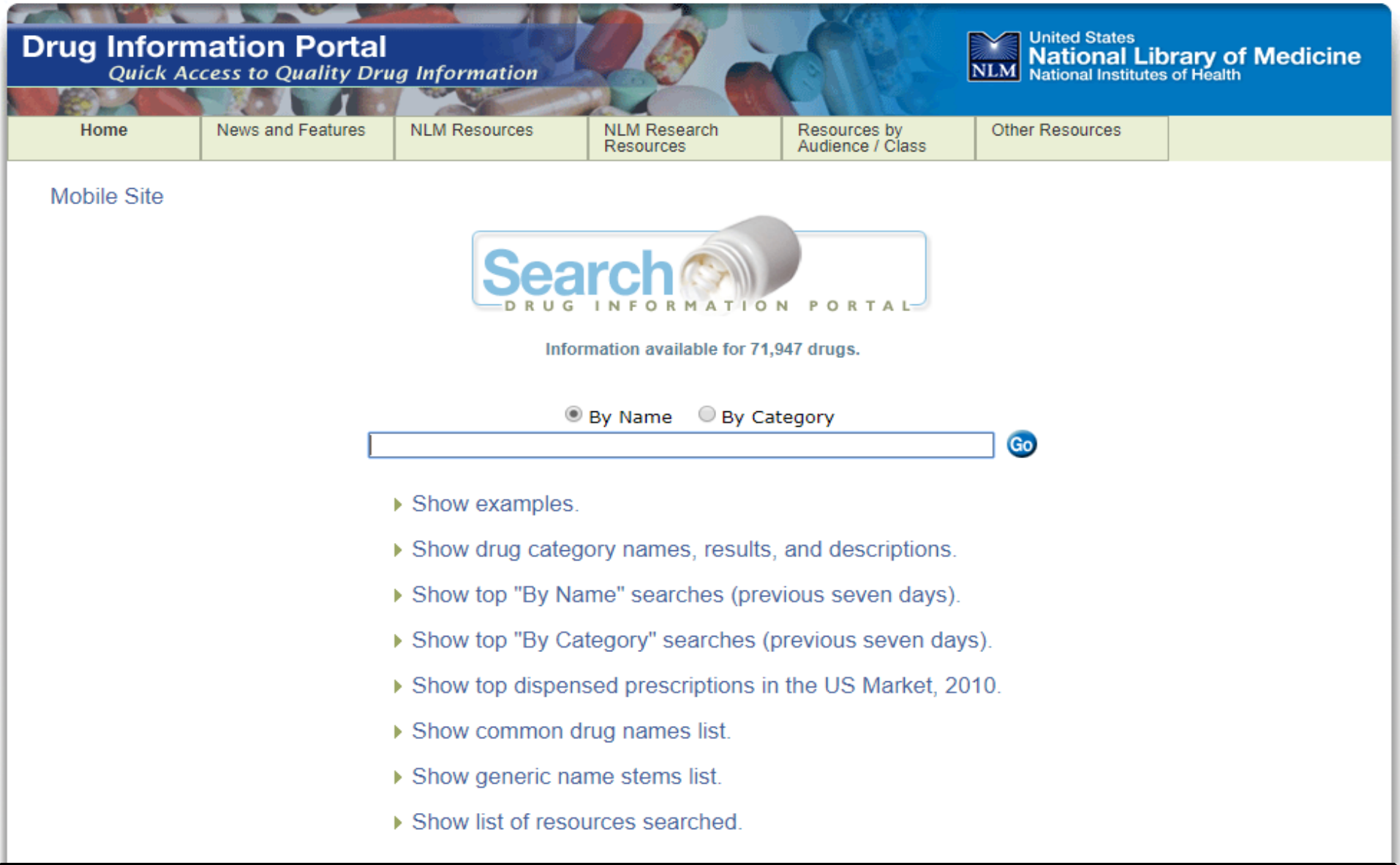
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Information available for 71,947 drugs.
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By Category
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Show examples.
Show drug category names, results, and descriptions.
Show top "By Name" searches (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.

# Drug Information Portal

- Links to drug information from NLM and other government agencies depending on the user's information need
- Search multiple resources simultaneously
- Information on over 70,000 drugs
- Information for a variety of audiences

**Druginfo.nlm.nih.gov**

◉ By Name ○ By Category

METFORMIN Go

## 1 result for Name/Synonym equals METFORMIN

**Drug Name:** Metformin [USAN:INN:BAN] View Synonyms View Structure

**Description:** A biguanide hypoglycemic agent used in the treatment of non-insulin-dependent diabetes mellitus not responding to dietary modification. Metformin improves glycemic control by improving insulin sensitivity and decreasing intestinal absorption of glucose. (From Martindale, The Extra Pharmacopoeia, 30th ed, p289)

**Category:** Hypoglycemic Agents

## Summary

- Summary of drug information (MedlinePlusDrug)
- Summary of consumer health information (MedlinePlusTopics)
- Summary of the effect on breastfeeding (LactMed)
- Summary of Drug-Induced Liver Injury (LiverTox)
- Summary of drug information and clinical research (PubMed Health)
- Manufacturers drug label (DailyMed)
- Clinical trials (ClinicalTrials.gov)
- Drug Identification and Image Display (Pillbox)

United States National Library of Medicine

NIDDK National Institute of Diabetes and Digestive and Kidney Diseases

# LiverTox

Clinical and Research Information on Drug-Induced Liver Injury




- Home
- Introduction
- Clinical Course
- Phenotypes
- Immune Features
- Clinical Outcomes
- Causality
- Severity Grading
- Likelihood Scale
- Classes of Drugs
- Submit a Case Report
- Meetings/Alerts/News
- Information Resources
- Glossary
- Abbreviations


## DRUG RECORD

## METFORMIN


- Overview
- Case Reports
- Product Information
- Chemical Formula and Structure
- References
- Other Reference Links


---

### OVERVIEW
***Metformin***

**Introduction**

Metformin is a first line agent for the treatment of type 2 diabetes that can be used alone or in combination with sulfonylureas, thiazolidinediones or other hypoglycemic agents. Metformin has not been linked to serum enzyme elevations during therapy and is an exceeding rare cause of idiosyncratic clinically apparent acute liver injury.

**Background**

Metformin (met for' min) is a biguanine and acts as an insulin sensitizing agent, probably through activation of adenosine monophosphate dependent (AMP) kinase in liver and muscle tissue. Metformin is often associated with weight loss making it a preferred, first line agent for management of overweight patients with type 2 diabetes. Initial concerns about the possibility that metformin (like the related biguanine phenformin) could induce lactic acidosis have been largely resolved, although the agent is contraindicated in patients with renal dysfunction because of this reason and should be used with caution in patients with

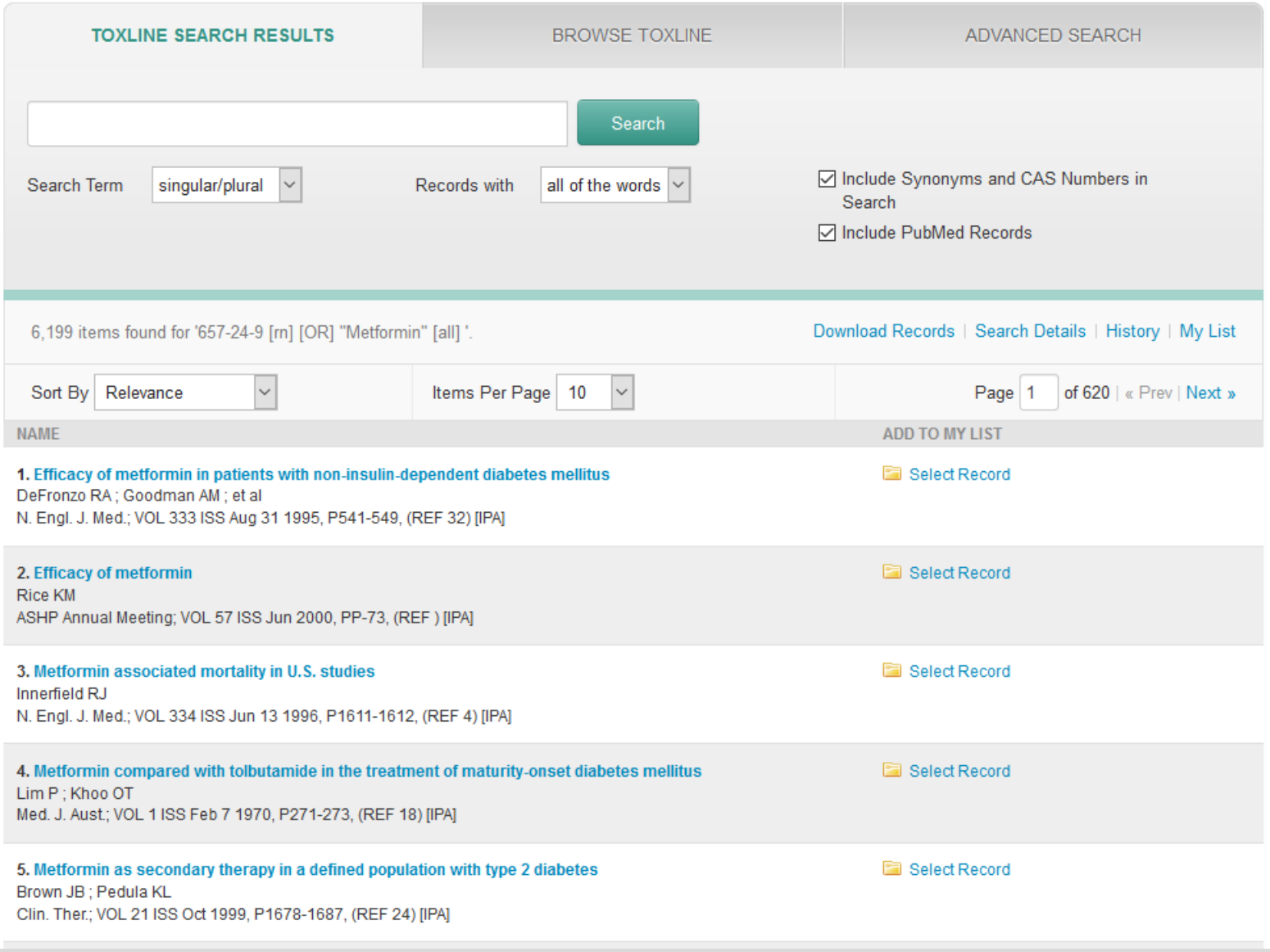
- Drug Identification and Image Display (Pillbox)

## Detailed Summary

- References from scientific journals (Medline/PubMed)
- Full text biomedical articles (PubMed Central)
- References from toxicological journals (TOXLINE)
- Biological activities and chemical structures (PubChem)
- Biological activities against HIV/AIDS and other viruses (NIAID ChemDB)
- Toxicological and chemical resources (ChemID*plus*)

## Additional Resources

- Information from the US Food & Drug Administration (Drugs@FDA)
- Search engine for other government resources (USA.gov)
- Information about drugs in Canada and the U.S. (DrugBank)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Search Term
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Records with
all of the words
Include Synonyms and CAS Numbers in Search
Include PubMed Records
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10
Page 1 of 620 | « Prev | Next »
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1. Efficacy of metformin in patients with non-insulin-dependent diabetes mellitus
DeFronzo RA ; Goodman AM ; et al
N. Engl. J. Med.; VOL 333 ISS Aug 31 1995, P541-549, (REF 32) [IPA]
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2. Efficacy of metformin
Rice KM
ASHP Annual Meeting; VOL 57 ISS Jun 2000, PP-73, (REF ) [IPA]
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3. Metformin associated mortality in U.S. studies
Innerfield RJ
N. Engl. J. Med.; VOL 334 ISS Jun 13 1996, P1611-1612, (REF 4) [IPA]
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4. Metformin compared with tolbutamide in the treatment of maturity-onset diabetes mellitus
Lim P ; Khoo OT
Med. J. Aust.; VOL 1 ISS Feb 7 1970, P271-273, (REF 18) [IPA]
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5. Metformin as secondary therapy in a defined population with type 2 diabetes
Brown JB ; Pedula KL
Clin. Ther.; VOL 21 ISS Oct 1999, P1678-1687, (REF 24) [IPA]
Select Record

U.S. National Library of Medicine | TOXNET TOXICOLOGY DATA NETWORK

Help | FAQs | TOXNET Fact Sheet | Training Manual & Schedule

TOXNET > ChemIDplus > Substance

ChemIDplus
A TOXNET DATABASE
Lite • Browse • Advanced

Registry Number | equals | 657-24-9 | Search

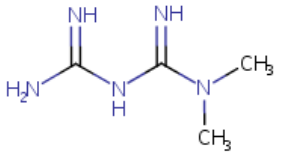
Start New Query | Modify Query | Search History | Switch to Summary View

**Substance Name: Metformin [USAN:INN:BAN]**
RN: 657-24-9
UNII: 9100L32L2N
InChIKey: XZWYZXLIPXDOLR-UHFFFAOYSA-N

**Note**
A biguanide hypoglycemic agent used in the treatment of non-insulin-dependent diabetes mellitus not responding to dietary modification. Metformin improves glycemic control by improving insulin sensitivity and decreasing intestinal absorption of glucose. (From Martindale, The Extra Pharmacopoeia, 30th ed, p289)

**Molecular Formula**
C4-H11-N5

**Molecular Weight**
129.1659




Na +

3D

All | Classifications | Links to Resources | Names & Synonyms | Registry Numbers | Structure Descriptors | Toxicity | Physical Properties

**Classification Codes**

- Antidiabetic
- Drug / Therapeutic Agent
- Hypoglycemic Agents
- Mutation Data
- Reproductive Effect

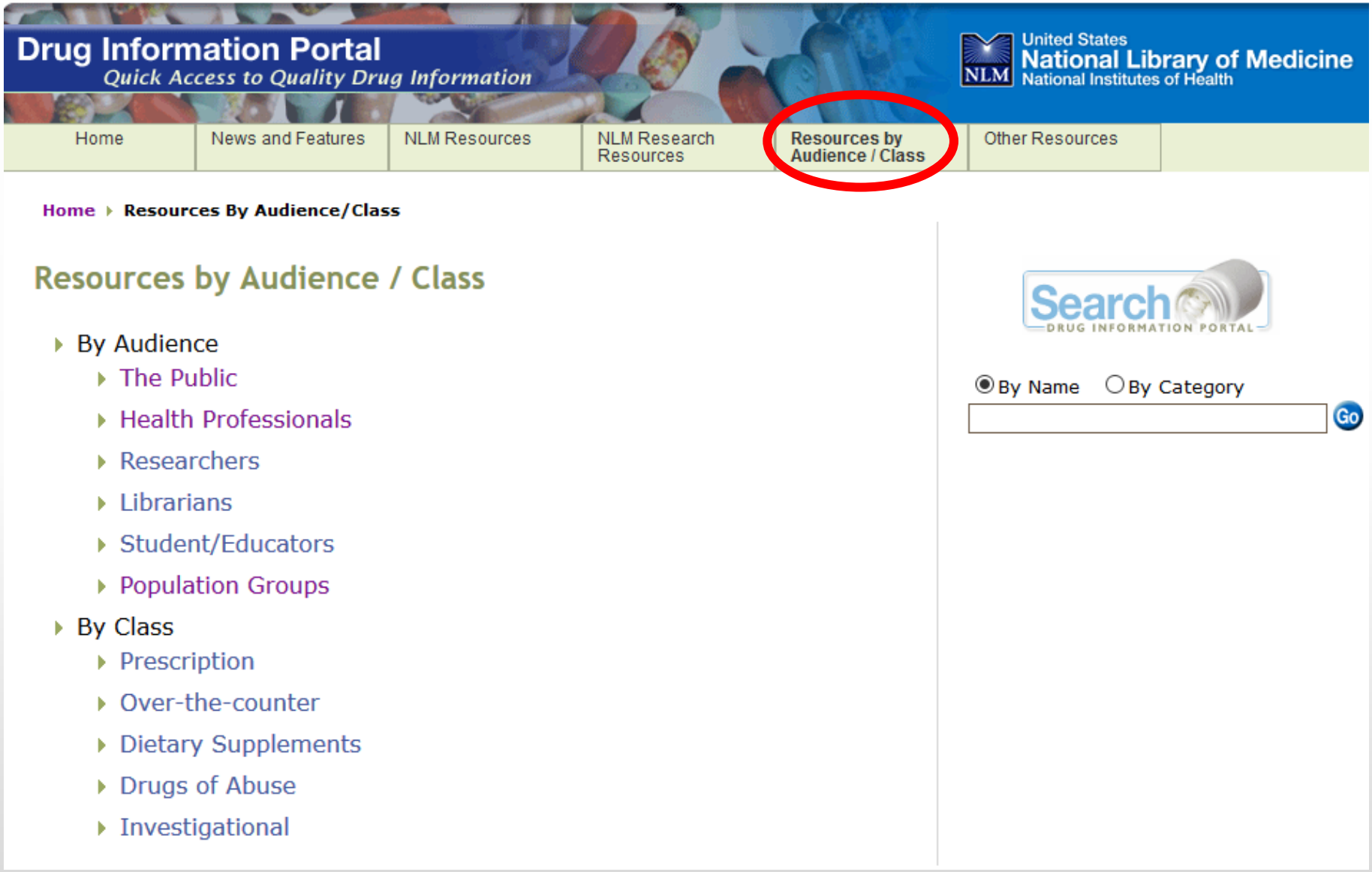
**Links to Resources**

**NLM Resources (File Locators)**

- CCRIS
- ClinicalTrials.gov
- DailyMed
- DART
- DrugPortal
- EMIC
- LactMed
- LiverTox
- MedlinePlusAll
- MedlinePlusDrug
- MeSH
- MeSH Heading
- Pillbox
- PubChem
- PubMed
- PubMed AIDS
- PubMed Cancer
- PubMed Central
- PubMed Health
- PubMed Toxicology
- RTECS
- TOXLINE

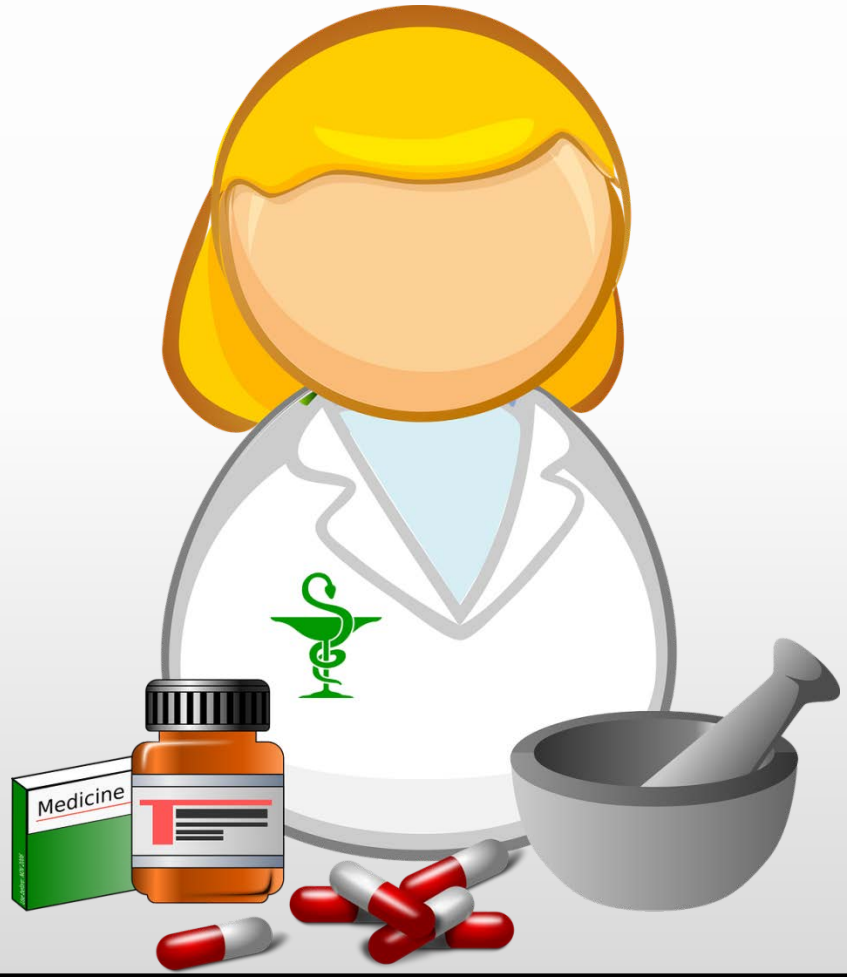
**Other Resources (Internet Locators)**

Drug Information Portal
Quick Access to Quality Drug Information
United States
National Library of Medicine
National Institutes of Health
Home
News and Features
NLM Resources
NLM Research Resources
Resources by Audience / Class
Other Resources
Home ▸ Category Results
Search
DRUG INFORMATION PORTAL
By Name
By Category
HYPOGLYCEMIC AGENTS
Go
99 results for Category equals HYPOGLYCEMIC AGENTS
1. Insulin human [USAN:USP:INN:BAN]
2. Insulin, neutral [USAN]
3. Insulin [Injection], biphasic [BAN]
4. Hypoglycemic Agents
5. Metformin [USAN:INN:BAN]
1 - 5
5
per page
Jump to
Go
Site Map, Contact Us, Copyright, Privacy, Accessibility
U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894
National Institutes of Health, Health & Human Services
Freedom of Information Act
Drug Information Portal Mobile Site
Last updated: Oct 2017
USA.gov


Drug Information Portal
Quick Access to Quality Drug Information
United States
National Library of Medicine
National Institutes of Health
Home
News and Features
NLM Resources
NLM Research Resources
Resources by Audience / Class
Other Resources
Home
Resources By Audience/Class
Resources by Audience / Class
By Audience
The Public
Health Professionals
Researchers
Librarians
Student/Educators
Population Groups
By Class
Prescription
Over-the-counter
Dietary Supplements
Drugs of Abuse
Investigational
Search
DRUG INFORMATION PORTAL
By Name
By Category
Go

# Drug resources

What is a warning related to the use of Alprazolam?



# Drug Resources

What medication is a white oval with CHX 0.5 printed on it?

# Research

ClinicalTrials.gov

PubMed.gov
US National Library of Medicine
National Institutes of Health

U.S. National Library of Medicine
ClinicalTrials.gov
Saved Studies (0)
Find Studies
About Studies
Submit Studies
Resources
About Site
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
Search (all fields optional)
Condition / Disease:
e.g. breast cancer
Other Terms:
e.g., NCT number, drug name, investigator nam
Country:
Find a study to participate in

# Patients and Families

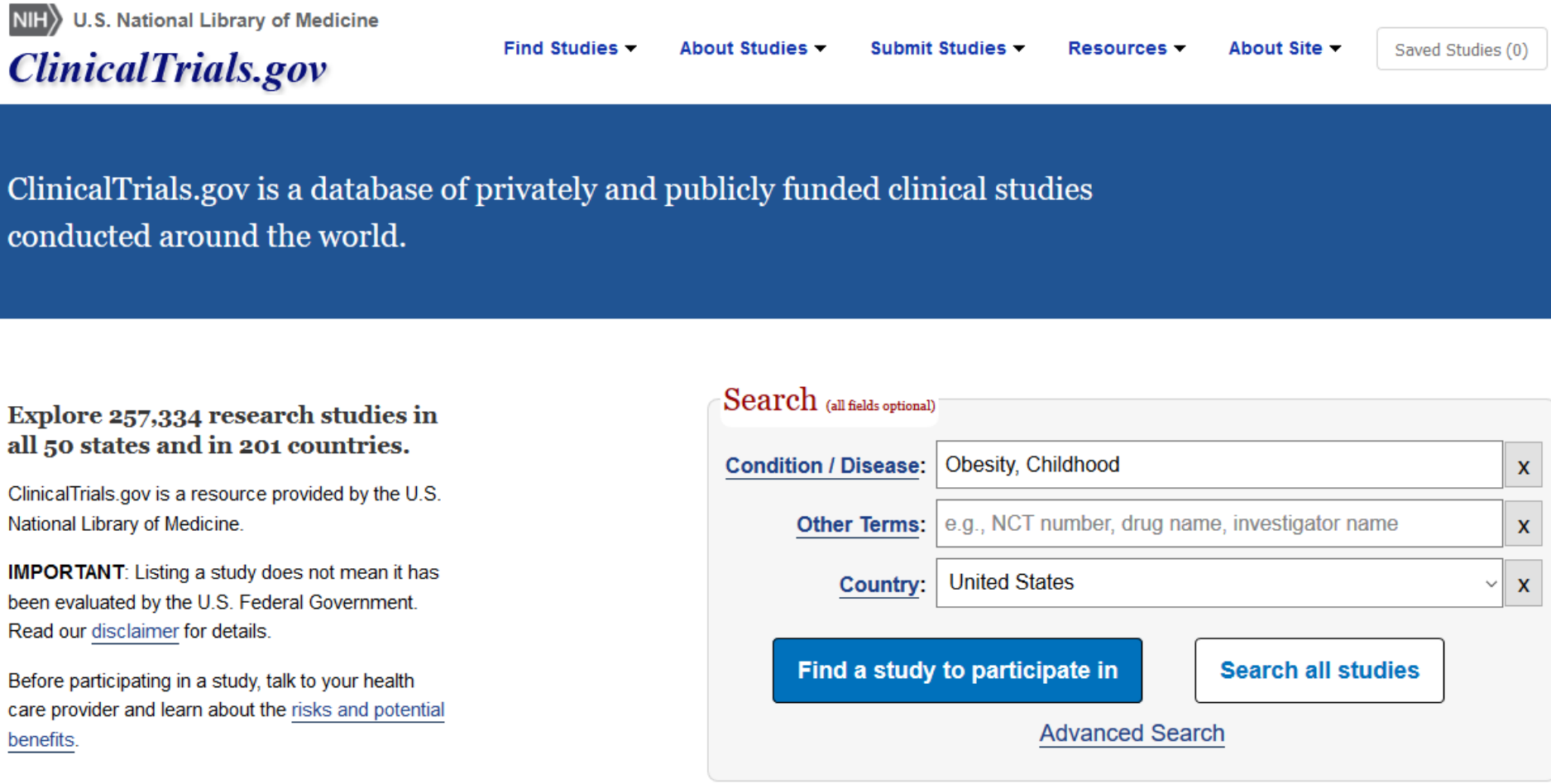
- ClinicalTrials.gov offers a reliable and generally comprehensive list of ongoing trials that people might consider enrolling in
- Gives patients a centralized place to search by condition, location, and other trial characteristics
- "Access to more information about clinical trials is good for patients,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

* source: NIH (2016) *HHS takes steps to provide more information about clinical trials to the public* retrieved from URL to source

**clinicaltrials.gov**

# 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


U.S. National Library of Medicine
ClinicalTrials.gov
Find Studies
About Studies
Submit Studies
Resources
About Site
Saved Studies (0)
ClinicalTrials.gov is a database of privately and publicly funded clinical studies conducted around the world.
Explore 257,334 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: Obesity, Childhood
Other Terms: e.g., NCT number, drug name, investigator name
Country: United States
Find a study to participate in
Search all studies
Advanced Search

List | By Topic | On Map | Search Details

Hide Filters

Download | Subscribe to RS

Showing: 1-10 of **274** studies 10 studies per page

Show/Hide Columns

Filters

Apply | Clear

**Status**

**Studies:**

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

**Expanded Access:**

**Eligibility Criteria**

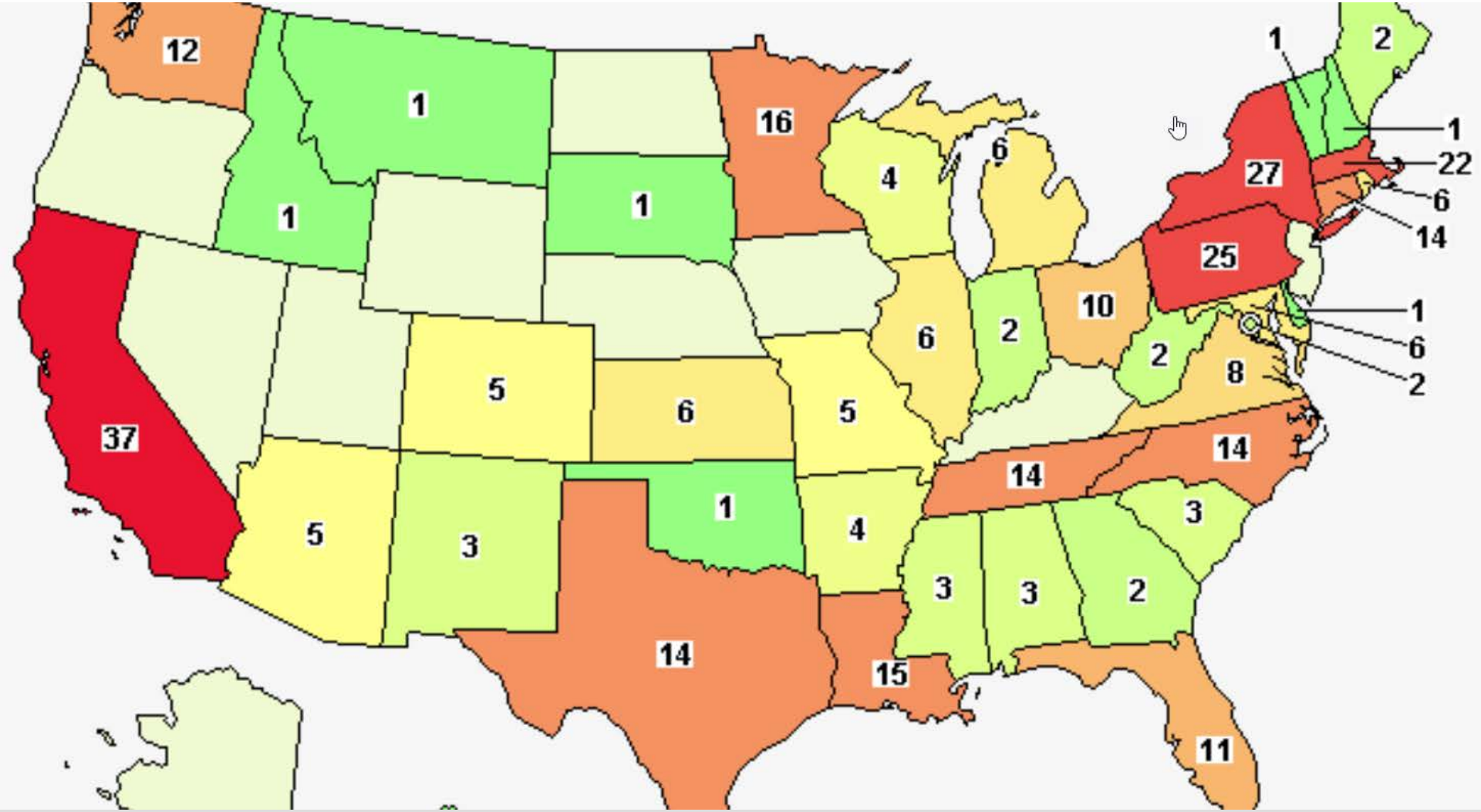
**Age:**

years OR

**Group:**

- ☐ Child (birth–17)
- ☐ Adult (18–65)
- ☐ Senior (66+)

| Row | Saved | Status | Study Title | Conditions | Interventions | Locations |
|---|---|---|---|---|---|---|
| 1 | ☐ | Recruiting | A Trial of Two Family-based **Childhood Obesity** Treatment Programs | • **Obesity, Childhood** | • Behavioral: iChoose<br>• Behavioral: Family Connections | • University of Virginia<br>Charlottesville, Virginia<br>**United States** |
| 2 | ☐ | Completed | Peer Counseling in Family-Based Treatment for **Childhood Obesity** | • **Childhood Obesity** | • Behavioral: Family-based behavioral intervention | • Seattle Children's<br>Seattle, Washington<br>**United States** |
| 3 | ☐ | Unknown † | Community-based Program to Treat **Childhood Obesity** | • **Childhood Obesity** | • Behavioral: JOIN Intervention | • YMCA of Greater Providence<br>Providence, Rhode Island<br>**United States** |
| 4 | ☐ | Completed | Integrated Care for **Pediatric Obesity** Using Telehealth | • **Pediatric Obesity** | • Behavioral: Telehealth | • Wareham Pediatrics<br>Wareham, Massachusetts<br>**United States** |
| 5 | ☐ | Completed | Wellness Action Plan Trial Addressing **Childhood Obesity** | • **Childhood Obesity** | • Behavioral: Wellness Action Plan | • Downtown Health Center<br>Milwaukee, Wisconsin<br>**United States** |
| 6 | ☐ | Completed | **Childhood Obesity** Treatment Targeting Specific Behaviors | • **Childhood Obesity** | • Behavioral: Diet and Activity | • The Weight Control and Diabetes Research Center<br>Providence, Rhode Island<br>**United States** |
| 7 | ☐ | Completed | Healthy Lifestyles Program for You (HLP4U): Augmenting **Childhood Obesity** Treatment. | • **Pediatric Obesity** | • Behavioral: Lifestyle counseling<br>• Behavioral: Text Messaging | • Duke Children's Health Center<br>Durham, North Carolina<br>**United States** |


12
1
1
16
1
4
6
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2
27
22
6
14
25
10
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8
1
6
2
37
5
6
5
14
14
1
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3
3
2
14
15
11

**10 Studies found for:**

**Obesity, Childhood | United States, Ohio**

Also searched for **Pediatric Obesity** and **Childhood Obesity**. See Search Details

List | By Topic | On Map | Search Details

Hide Filters

Download | Subscri

Show/Hide

Filters

Apply | Clear

**Status**

Studies:

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

Expanded Access: ⊞

**Eligibility Criteria**

Age:

☐ years OR

Group:

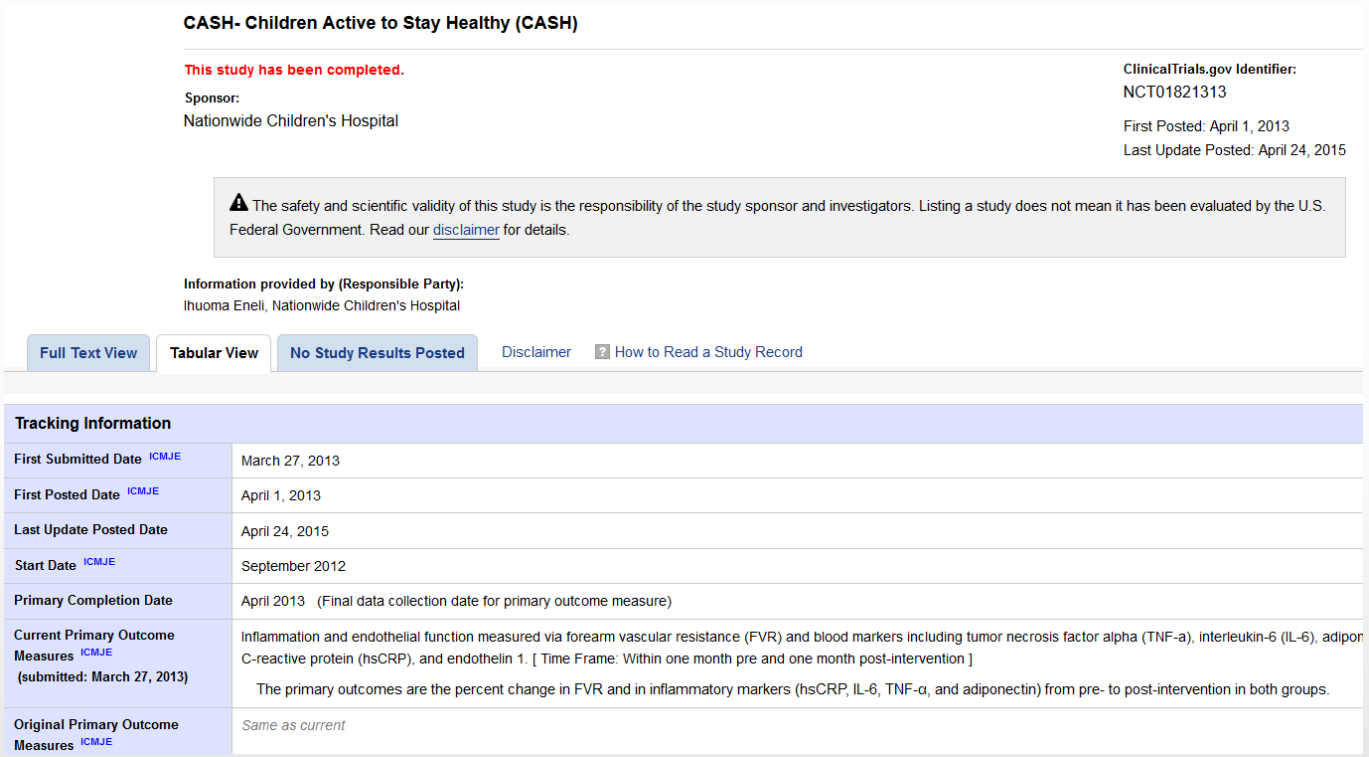
- ☐ Child (birth–17)
- ☐ Adult (18–65)
- ☐ Senior (66+)

Sex:

- ◉ All
- ○ Female

| Row | Saved | Status | Study Title | Conditions | Interventions | Locations |
|---|---|---|---|---|---|---|
| 1 | ☐ | Completed | Anticipatory Guidance to Prevent Childhood Obesity | • Childhood Obesity | • Behavioral: Maternal focused intervention<br>• Behavioral: Ounce of Prevention | • Nationwide Children's Hospital<br>Columbus, Ohio<br>United States |
| 2 | ☐ | Completed | Role of Carbohydrate Modification in Weight Management Among Obese Children | • Childhood Obesity | • Behavioral: Low carbohydrate, reduced glycemic load, and a control diet | • Cincinnati Children's Hospital Medical Center<br>Cincinnati, Ohio<br>United States |
| 3 | ☐ | Completed | Behavioral Rx & Nutrition in Pediatric Chronic Disease | • Pediatric Obesity | • Behavioral: LAUNCH<br>• Other: Pediatrician Counseling | • Cincinnati Children's Hospital Medical Center<br>Cincinnati, Ohio<br>United States |
| 4 | ☐ | Completed | CASH- Children Active to Stay Healthy | • Childhood Obesity<br>• Inflammation | • Other: Moderate exercise<br>• Other: High Intensity Interval Exercise | • The Ohio State University<br>Columbus, Ohio<br>United States |
| 5 | ☐ | Active, not recruiting | Summer Weight and Environmental Assessment Trial | • Childhood Obesity | • Other: n/a - observational study | • Purdue University<br>West Lafayette, Indiana<br>United States<br>• The Ohio State University<br>Columbus, Ohio<br>United States |
| 6 | ☐ | Completed | A Pharmacokinetic Study Comparing VI-0521 With Placebo in Obese Adolescents | • Pediatric Obesity<br>• Childhood Obesity | • Drug: Placebo<br>• Drug: VI-0521 Mid Dose<br>• Drug: VI-0521 Top Dose | • Research Facility<br>Baton Rouge, Louisiana<br>United States<br>• Tandem Clinical Research<br>Marrero, Louisiana<br>United States<br>• Research Facility<br>Cincinnati, Ohio<br>United States |

- Purpose
- Study type
- Study design
- Primary and secondary outcome measures
- Start and end date
- Eligibility
- Contact person



**CASH- Children Active to Stay Healthy (CASH)**

This study has been completed.

**Sponsor:**
Nationwide Children's Hospital

**ClinicalTrials.gov Identifier:**
NCT01821313

First Posted: April 1, 2013
Last Update Posted: April 24, 2015

⚠ The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our disclaimer for details.

**Information provided by (Responsible Party):**
Ihuoma Eneli, Nationwide Children's Hospital

Full Text View | Tabular View | No Study Results Posted | Disclaimer | How to Read a Study Record

| Tracking Information | |
|---|---|
| First Submitted Date ICMJE | March 27, 2013 |
| First Posted Date ICMJE | April 1, 2013 |
| Last Update Posted Date | April 24, 2015 |
| Start Date ICMJE | September 2012 |
| Primary Completion Date | April 2013 (Final data collection date for primary outcome measure) |
| Current Primary Outcome Measures ICMJE (submitted: March 27, 2013) | Inflammation and endothelial function measured via forearm vascular resistance (FVR) and blood markers including tumor necrosis factor alpha (TNF-a), interleukin-6 (IL-6), adipon C-reactive protein (hsCRP), and endothelin 1. [ Time Frame: Within one month pre and one month post-intervention ]<br>The primary outcomes are the percent change in FVR and in inflammatory markers (hsCRP, IL-6, TNF-α, and adiponectin) from pre- to post-intervention in both groups. |
| Original Primary Outcome Measures ICMJE | *Same as current* |

**More Information**

Publications:

Tjønna AE, Stølen TO, Bye A, Volden M, Slørdahl SA, Odegård R, Skogvoll E, Wisløff U. Aerobic interval training reduces cardiovascular risk factors more than a multitreatment approach in overweight adolescents. Clin Sci (Lond). 2009 Feb;116(4):317-26. doi: 10.1042/CS20080249.

Tyldum GA, Schjerve IE, Tjønna AE, Kirkeby-Garstad I, Stølen TO, Richardson RS, Wisløff U. Endothelial dysfunction induced by post-prandial lipemia: complete protection afforded by high-intensity aerobic interval exercise. J Am Coll Cardiol. 2009 Jan 13;53(2):200-6. doi: 10.1016/j.jacc.2008.09.033.

Haram PM, Kemi OJ, Lee SJ, Bendheim MØ, Al-Share QY, Waldum HL, Gilligan LJ, Koch LG, Britton SL, Najjar SM, Wisløff U. Aerobic interval training vs. continuous moderate exercise in the metabolic syndrome of rats artificially selected for low aerobic capacity. Cardiovasc Res. 2009 Mar 1;81(4):723-32. doi: 10.1093/cvr/cvn332. Epub 2008 Dec 1.

Cardiovasc Res. 2009 Mar 1;81(4):723-32. doi: 10.1093/cvr/cvn332. Epub 2008 Dec 1.

## Aerobic interval training vs. continuous moderate exercise in the metabolic syndrome of rats artificially selected for low aerobic capacity.

Haram PM[1], Kemi OJ, Lee SJ, Bendheim MØ, Al-Share QY, Waldum HL, Gilligan LJ, Koch LG, Britton SL, Najjar SM, Wisløff U.

Author information

**Abstract**

**AIMS:** The recent development of a rat model that closely resembles the metabolic syndrome allows to study the mechanisms of amelioration of the syndrome by exercise training. Here, we compared the effectiveness for reducing cardiovascular risk factors by exercise training programmes of different exercise intensities.

**METHODS AND RESULTS:** Metabolic syndrome rats were subjected to either continuous moderate-intensity exercise (CME) or high-intensity aerobic interval training (AIT). AIT was more effective than CME at reducing cardiovascular disease risk factors linked to the

Full Text View | Tabular View | **Study Results** | Disclaimer | How to Read a Study Record

Results First Submitted: October 28, 2016

| | |
|---|---|
| **Study Type:** | Interventional |
| **Study Design:** | Allocation: Randomized; Intervention Model: Parallel Assignment; Masking: None (Open Label); Primary Purpose: Prevention |
| **Condition:** | **Childhood Obesity** |
| **Interventions:** | Behavioral: Standard Care<br>Behavioral: Moderate Dose Motivational Interviewing<br>Behavioral: Higher Dose Motivational Interviewing |

## Participant Flow

Hide Participant Flow

**Recruitment Details**

| **Key information relevant to the recruitment process for the overall study, such as dates of the recruitment period and locations** |
|---|
| No text entered. |

**Pre-Assignment Details**

| **Significant events and approaches for the overall study following participant enrollment, but prior to group assignment** |
|---|
| No text entered. |

**Reporting Groups**

| | **Description** |
|---|---|
| **Standard Care With Education Materials** | Standard Care: Practitioners will receive 2 hour obesity lecture and 1/2 day protocol training. Families recruited are given parent |

| | | | | | |
|---|---|---|---|---|---|
| | Completed<br>Has Results | Randomized Phase II Study of Ixabepilone Alone and Ixabepilone Plus Cetuximab as First-Line Treatment for **Female** Subjects With Triple Negative Locally Advanced Non-resectable and/or Metastatic **Breast Cancer** | • Triple Negative Locally Advanced Non-resectable **Breast Cancer**<br>• Metastatic **Breast Cancer** | • Drug: ixabepilone<br>• Drug: ixabepilone + cetuximab | • Local Institution<br>Graz<br>Austria<br>• Local Institution<br>Wien<br>Austria<br>• Local Institution<br>Brno<br>Czech Republic<br>• (and 16 more...) |

# Clinicaltrials.gov beta version

- As of Nov. 3 2017, the beta version of this site is available for public testing
- New features include:
  - Updated way to search for recruiting and not yet recruiting studies
  - Filter search based on number of miles away
  - Updated search results page
  - “glossary” feature to provide definitions

**https://clinicaltrials.gov/beta/**

# Clinicaltrials.gov

How many studies regarding early onset Alzheimer's Disease are currently recruiting participants in the United States?

**clinicaltrials.gov**

NCBI Resources How To Sign in to NCBI

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed | Search | Advanced | Help

# 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.

## Using PubMed

- PubMed Quick Start Guide
- Full Text Articles
- PubMed FAQs
- PubMed Tutorials
- New and Noteworthy

## PubMed Tools

- PubMed Mobile
- Single Citation Matcher
- Batch Citation Matcher
- Clinical Queries
- Topic-Specific Queries

## More Resources

- MeSH Database
- Journals in NCBI Databases
- 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.

## PubMed Commons

Featured comments

- Updating connections: Author D Vaulot 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

# What is PubMed?

- The world's premiere biomedical bibliographic database
- Contains more that 25 million citations to journal articles in these major content areas:
  - Biomedical Sciences
  - Nursing, Dentistry, Pharmacy and Allied Health
  - Veterinary Medicine
  - Preclinical sciences

**pubmed.gov**

# Ways to speed up a clinical search

- Use clinical queries to limit to clinical research areas
- Use topic filters to limit your search quickly

NCBI Resources How To Sign in to NCBI

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed Search

Advanced Help

# 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.

## Using PubMed

- PubMed Quick Start Guide
- Full Text Articles
- PubMed FAQs
- PubMed Tutorials
- New and Noteworthy

## PubMed Tools

- PubMed Mobile
- Single Citation Matcher
- Batch Citation Matcher
- Clinical Queries
- Topic-Specific Queries

## More Resources

- MeSH Database
- Journals in NCBI Databases
- Clinical Trials
- E-Utilities (API)
- LinkOut

## Latest Literature

New articles from highly accessed journals

Blood (3)

Cochrane Database Syst Rev (2)

## Trending Articles

PubMed records with recent increases in activity

RNA editing with CRISPR-Cas13.
Science. 2017.

## PubMed Commons

Featured comments

On actin polymerization: M Meissner & author LD Sibley discuss implications of P falciparum findings for T gondii.
bit.ly/2qaEhYf

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.

systemic lupus erythematosus Search

## Clinical Study Categories

**Category:** Therapy

**Scope:** Broad

### Results: 5 of 16615

Systemic lupus erythematosus with and without a family history: a meta-analysis.
Chen LY, Shi ZR, Tan GZ, Han YF, Tang ZQ, Wang L.
Lupus. 2017 Jan 1; :961203317739133. Epub 2017 Jan 1.

Analysis of changes in joint function and peripheral blood mononuclear cells in patients with systemic lupus erythematosus and intervention effects of different drugs.
Zhou QS, Hu J, Hu H.
Eur Rev Med Pharmacol Sci. 2017 Oct; 21(19):4423-4430.

Efficacy and Safety of Atacicept in Patients with Systemic Lupus Erythematosus: Results of a 24-week Randomized, Placebo-Controlled, Phase IIb Study.
Merrill JT, Wallace DJ, Wax S, Kao A, Fraser PA, Chang P, Isenberg D.
Arthritis Rheumatol. 2017 Oct 26; . Epub 2017 Oct 26.

A Retrospective Medical Record Review of Utilization Patterns and Medical Resource Use Associated with Repository Corticotropin Injection among Patients with Rheumatologic Diseases in the United States.
Nelson WW, Philbin MJ, Gallagher JR, Heap K, Carroll S, Wan GJ.
Rheumatol Ther. 2017 Oct 25; . Epub 2017 Oct 25.

Association between a history of periodontitis and the risk of systemic lupus erythematosus in Taiwan: A nationwide, population-based, case-control study.
Wu YD, Lin CH, Chao WC, Liao TL, Chen DY, Chen HH.
PLoS One. 2017; 12(10):e0187075. Epub 2017 Oct 23.

## Systematic Reviews

### Results: 5 of 1027

Association between Systemic Lupus Erythematosus and Periodontitis: A Systematic Review and Meta-analysis.
Rutter-Locher Z, Smith TO, Giles I, Sofat N.
Front Immunol. 2017; 8:1295. Epub 2017 Oct 17.

Systemic lupus erythematosus with and without a family history: a meta-analysis.
Chen LY, Shi ZR, Tan GZ, Han YF, Tang ZQ, Wang L.
Lupus. 2017 Jan 1; :961203317739133. Epub 2017 Jan 1.

Predictive biological markers of systemic lupus erythematosus flares: a systematic literature review.
Gensous N, Marti A, Barnetche T, Blanco P, Lazaro E, Seneschal J, Truchetet ME, Duffau P, Richez C, FHU ACRONIM..
Arthritis Res Ther. 2017 Oct 24; 19(1):238. Epub 2017 Oct 24.

The multifactorial origin of posterior reversible encephalopathy syndrome in cyclophosphamide-treated lupus patients.
Zekić T, Benić MS, Antulov R, Antončić I, Novak S.
Rheumatol Int. 2017 Oct 17; . Epub 2017 Oct 17.

Autoimmune comorbidity in chronic spontaneous urticaria: A systematic review.
Kolkhir P, Borzova E, Grattan C, Asero R, Pogorelov D, Maurer M.
Autoimmun Rev. 2017 Oct 14; . Epub 2017 Oct 14.

See all (1027)

## Medical Genetics

**Topic:** Genetic Testing

### Results: 5 of 4793

Profiling RNA-Seq at multiple resolutions markedly increases the number of causal eQTLs in autoimmune disease.
Odhams CA, Cunninghame Graham DS, Vyse TJ.
PLoS Genet. 2017 Oct 23; 13(10):e1007071. Epub 2017 Oct 23.

Systemic autoimmune diseases are associated with an increased risk of bipolar disorder: A nationwide population-based cohort study.
Wang LY, Chiang JH, Chen SF, Shen YC.
J Affect Disord. 2017 Oct 7; 227:31-37. Epub 2017 Oct 7.

Autoimmune retinopathy associated with systemic lupus erythematosus: A diagnostic dilemma.
Wuthisiri W, Lai YH, Capasso J, Blidner M, Salz D, Kruger E, Levin AV.
Taiwan J Ophthalmol. 2017 Jul-Sep; 7(3):172-176.

Expression patterns of signaling lymphocytic activation molecule family members in peripheral blood mononuclear cell subsets in patients with systemic lupus erythematosus.
Karampetsou MP, Comte D, Kis-Toth K, Kyttaris VC, Tsokos GC.
PLoS One. 2017; 12(10):e0186073. Epub 2017 Oct 11.

SHIP-1 Deficiency in AID<sup>+</sup> B Cells Leads to the Impaired Function of B10 Cells with Spontaneous Autoimmunity.
Chen Y, Hu F, Dong X, Zhao M, Wang J, Sun X, Kim TJ, Li Z, Liu W.
J Immunol. 2017 Nov 1; 199(9):3063-3073. Epub 2017 Oct 2.

See all (4793)

U.S. National Library of Medicine
Databases
Find, Read, Learn
Explore NLM
Research at NLM
NLM for You
Home > MEDLINE/PubMed Resources
PubMed® Special Queries
Directory of Topic-Specific PubMed Queries
Clinicians and Health Services Researchers Queries
Description
Clinical Queries
A search interface to find citations in the areas of:
Clinical Study Categories: Find citations corresponding to a specific clinical study category.
Systematic Reviews: Find citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consens
Medical Genetics: Find citations related to various topics in medical genetics.
Electronic Health Records
PubMed search and links to other electronic health records information resources
Comparative Effectiveness Research
Specialized searches of published research and research in progress to help inform investigations of comparative effectiveness
Health Services Research (HSR) Queries
A search interface to find PubMed citations relating to health care quality or to health care costs, e.g.: Appropriateness; Process assessme
research; and Quality improvement.
Healthy People 2020
An interface providing searches - Structured Evidence Queries (SEQs) - to retrieve citations to published literature related to Healthy People

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The US Department of Health and Human Services (HHS) and HL7 standards define the electronic health record as "An electronic record of health-related information on an individual that conforms to nationally recognized interoperability standards and that can be created, managed, and consulted by authorized clinicians and staff across more than one health care organization." The National Library of Medicine® is a major participant in electronic health record development.
MEDLINE®/PubMed® Search
Perform the electronic health record search in PubMed® to retrieve citations to journal literature.
NOTE: The string passed in the link above is very long. The link may not work properly in all browsers. Firefox works best.
See the details of the search strategy.
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NLM is the central coordinating body for clinical terminology standards within the Department of Health and Human Services (HHS)

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Description
Clinical Queries
A search interface to find citations in the areas of:
Clinical Study Categories: Find citations corresponding to a specific clinical study category.
Systematic Reviews: Find citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consens
Medical Genetics: Find citations related to various topics in medical genetics.
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Comparative Effectiveness Research
Specialized searches of published research and research in progress to help inform investigations of comparative effectiveness
Health Services Research (HSR) Queries
A search interface to find PubMed citations relating to health care quality or to health care costs, e.g.: Appropriateness; Process assessme
research; and Quality improvement.
Healthy People 2020
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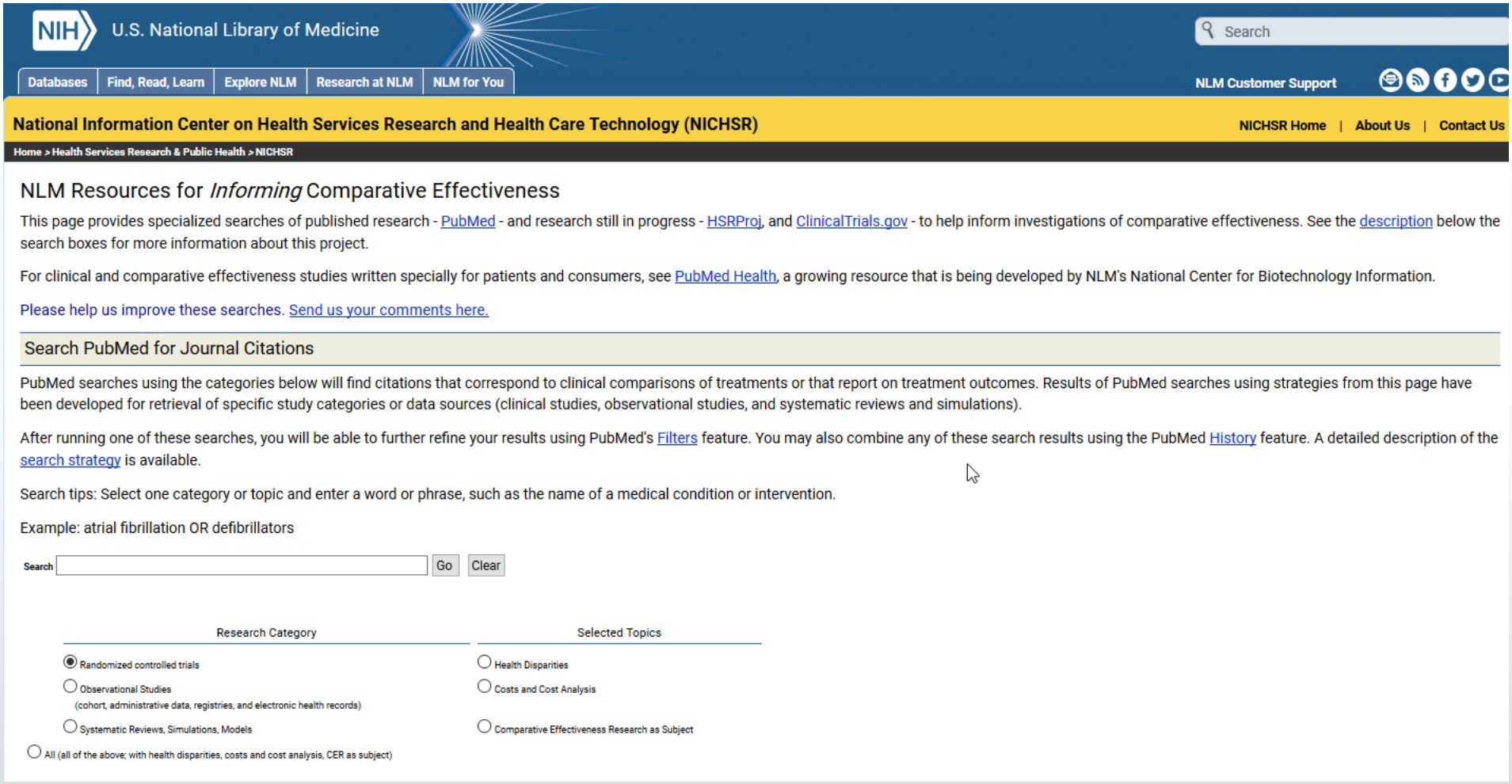
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This page provides specialized searches of published research - PubMed - and research still in progress - HSRProj, and ClinicalTrials.gov - to help inform investigations of comparative effectiveness. See the description below the search boxes for more information about this project.
For clinical and comparative effectiveness studies written specially for patients and consumers, see PubMed Health, a growing resource that is being developed by NLM's National Center for Biotechnology Information.
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Search PubMed for Journal Citations
PubMed searches using the categories below will find citations that correspond to clinical comparisons of treatments or that report on treatment outcomes. Results of PubMed searches using strategies from this page have been developed for retrieval of specific study categories or data sources (clinical studies, observational studies, and systematic reviews and simulations).
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Search tips: Select one category or topic and enter a word or phrase, such as the name of a medical condition or intervention.
Example: atrial fibrillation OR defibrillators
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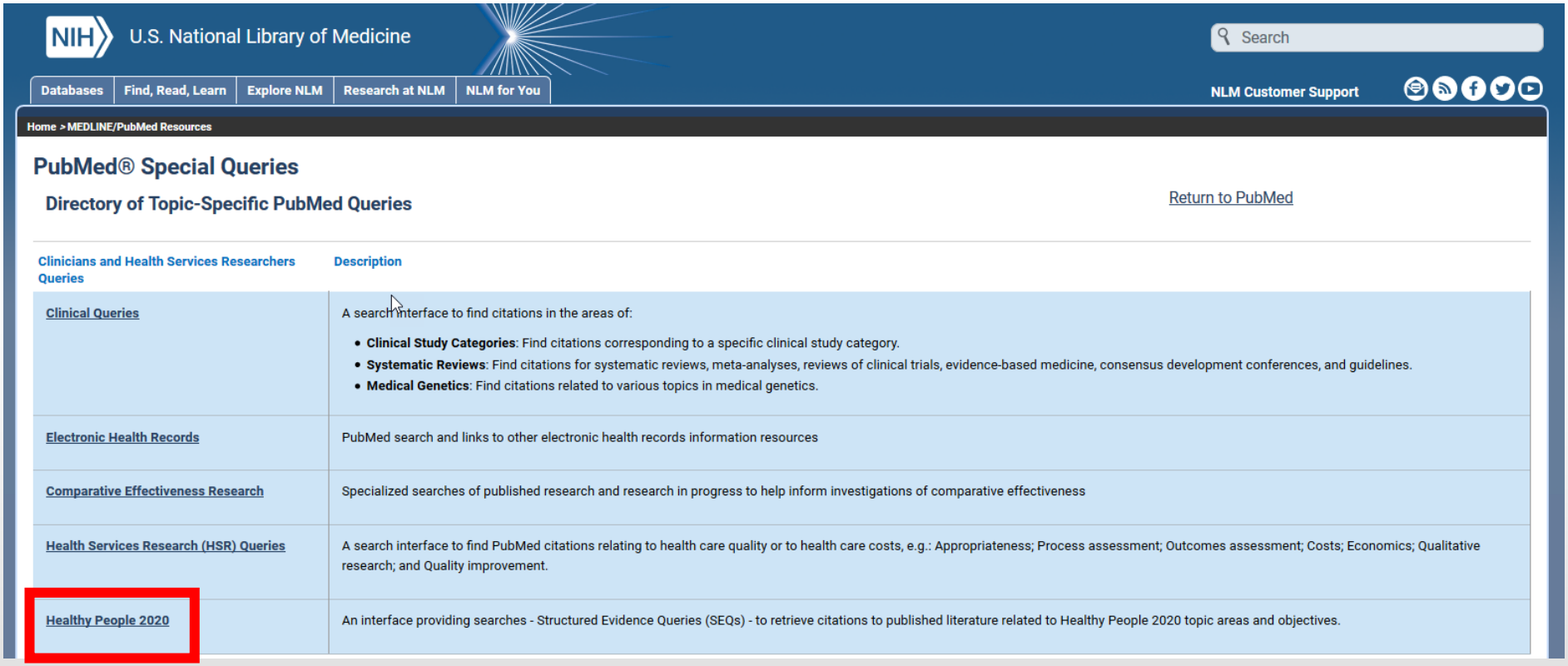
Systematic Reviews, Simulations, Models
Health Disparities
Costs and Cost Analysis
Comparative Effectiveness Research as Subject
All (all of the above; with health disparities, costs and cost analysis, CER as subject)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Description
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A search interface to find citations in the areas of:
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Systematic Reviews: Find citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines.
Medical Genetics: Find citations related to various topics in medical genetics.
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Healthy People 2020
An interface providing searches - Structured Evidence Queries (SEQs) - to retrieve citations to published literature related to Healthy People 2020 topic areas and objectives.

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# Healthy People 2020 Structured Evidence Queries

***Practice Informed by Research***

This resource provides pre-formulated PubMed search strategies to find published literature to support achieving Healthy People 2020 objectives.

Search by Topic Area | About this Project | FAQs | Give Us Feedback | Handout | Contributors

## Search by Topic Area

Access to Health Services
Adolescent Health
Arthritis, Osteoporosis, and Chronic Back Conditions
Blood Disorders and Blood Safety
Chronic Kidney Disease
Dementias, Including Alzheimer's Disease
Diabetes
Early and Middle Childhood
Environmental Health
Family Planning
Food Safety
Genomics
Health Communication and Health IT
Healthcare-Associated Infections
Heart Disease and Stroke
HIV
Maternal, Infant, and Child Health
Medical Product Safety
Mental Health and Mental Disorders
Nutrition and Weight Status
Occupational Safety and Health
Oral Health
Physical Activity
Preparedness
Respiratory Diseases
Sexually Transmitted Diseases
Sleep Health
Substance Abuse
Tobacco Use
Vision

| Subjects | Description |
| --- | --- |
| AIDS | Limits search to the PubMed AIDS subset |
| Bioethics | Bioethics Information Resource page providing a PubMed search function using the PubMed Bioethics subset, and links to additional bioethics-related resources. |
| Cancer | Limits search to the PubMed Cancer subset |
| Complementary Medicine | Limits search to the PubMed Complementary Medicine subset |
| Dietary Supplements | Limits search to the PubMed Dietary Supplements subset |
| Health Disparities | PubMed search and links to other health disparities information resources |
| Health Literacy | PubMed search and links to other health literacy information resources |
| History of Medicine | Limits search to the PubMed History of Medicine subset |
| Population Health | PubMed search for Population Health |
| Research Reporting Guidelines and Initiatives | PubMed search link and links to organizations responsible for developing the guidelines that provide advice for reporting research methods and findings. |
| Space Life Sciences | PubMed Space Life Sciences search |

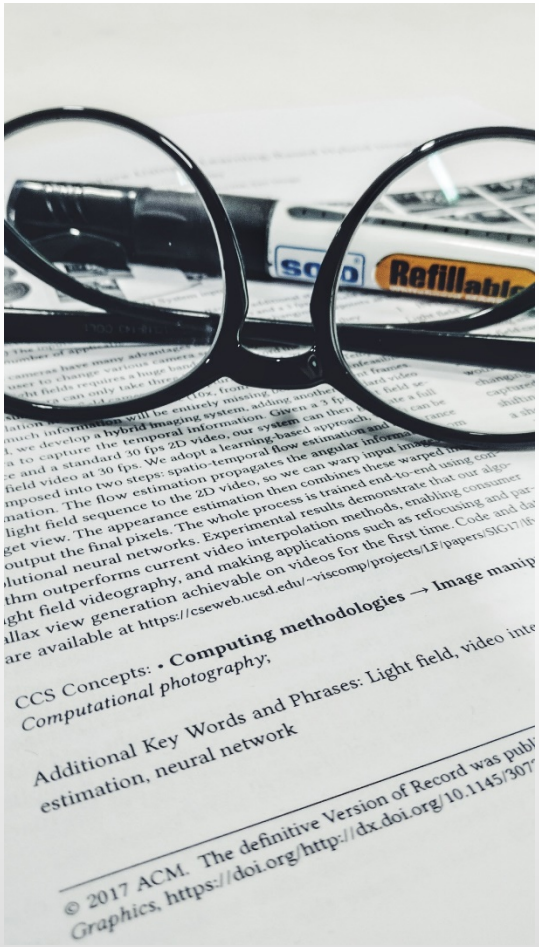
# PubMed

What is one research article in PubMed related to the Healthy People 2020 objective to Reduce the proportion of adolescents who have been offered, sold, or given an illegal drug on school property"?

**pubmed.gov**

# PubMed

Locate an article for a clinician regarding therapy for multiple sclerosis




**pubmed.gov**

# Clinical Effectiveness and Clinical Guidelines

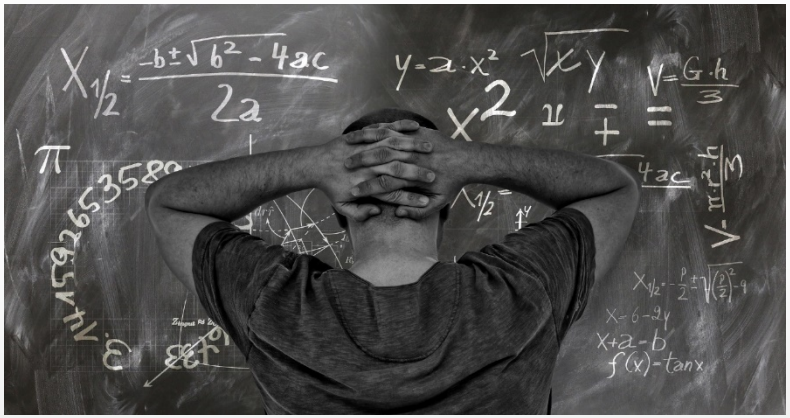
PubMed Health

National Guideline Clearinghouse

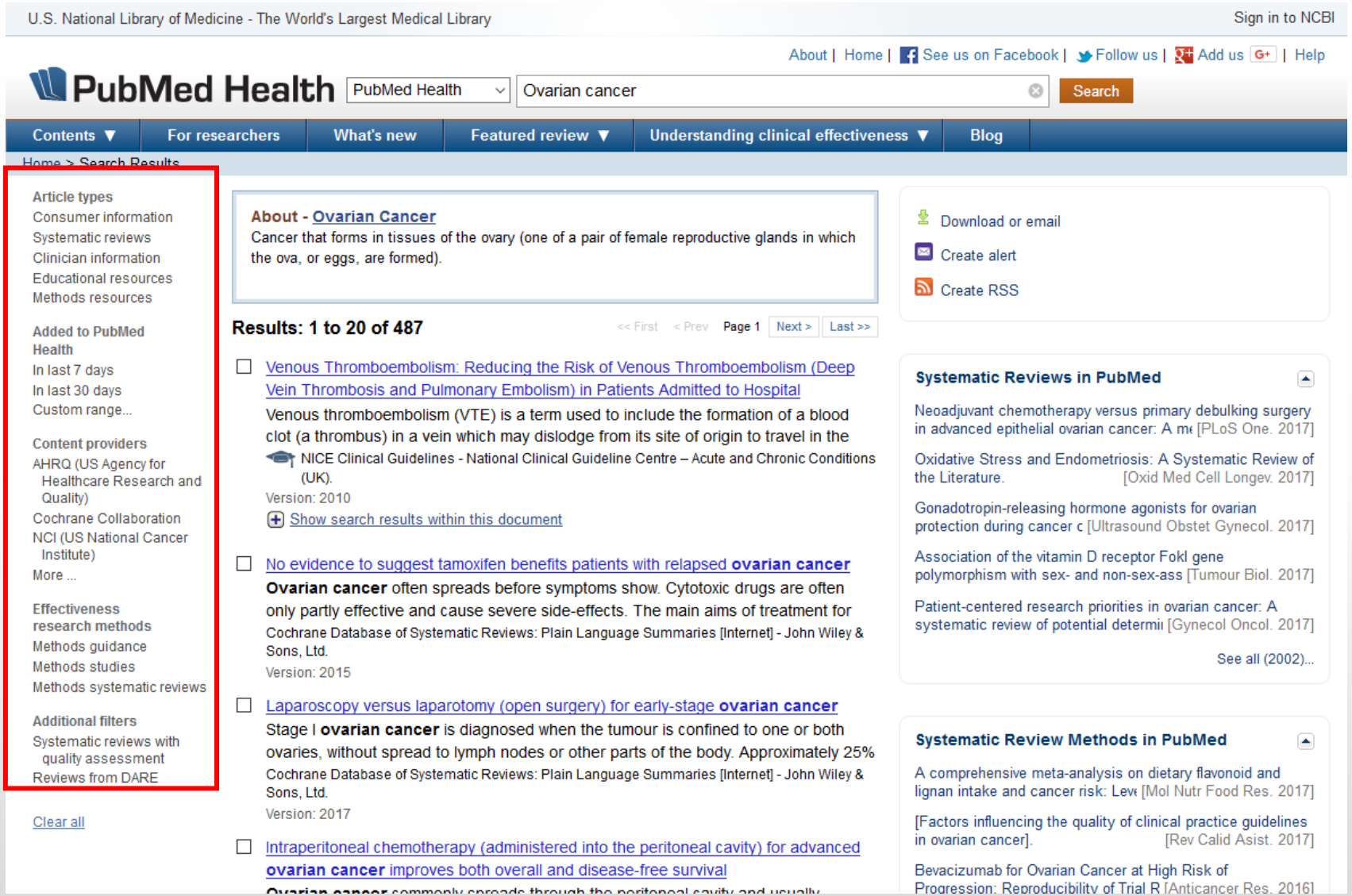
# PubMed Health

# PubMed Health

- Specializes in reviews of clinical effectiveness research
- Information for both clinicians and consumers
- In May 2016, there were over 40,000 systematic reviews in PubMed Health.



**www.ncbi.nlm.nih.gov/pubmedhealth**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About - Ovarian Cancer
Cancer that forms in tissues of the ovary (one of a pair of female reproductive glands in which the ova, or eggs, are formed).
Results: 1 to 20 of 487
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< Prev
Page 1
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Last >>
Venous Thromboembolism: Reducing the Risk of Venous Thromboembolism (Deep Vein Thrombosis and Pulmonary Embolism) in Patients Admitted to Hospital
Venous thromboembolism (VTE) is a term used to include the formation of a blood clot (a thrombus) in a vein which may dislodge from its site of origin to travel in the
NICE Clinical Guidelines - National Clinical Guideline Centre – Acute and Chronic Conditions (UK).
Version: 2010
Show search results within this document
No evidence to suggest tamoxifen benefits patients with relapsed ovarian cancer
Ovarian cancer often spreads before symptoms show. Cytotoxic drugs are often only partly effective and cause severe side-effects. The main aims of treatment for
Cochrane Database of Systematic Reviews: Plain Language Summaries [Internet] - John Wiley & Sons, Ltd.
Version: 2015
Laparoscopy versus laparotomy (open surgery) for early-stage ovarian cancer
Stage I ovarian cancer is diagnosed when the tumour is confined to one or both ovaries, without spread to lymph nodes or other parts of the body. Approximately 25%
Cochrane Database of Systematic Reviews: Plain Language Summaries [Internet] - John Wiley & Sons, Ltd.
Version: 2017
Intraperitoneal chemotherapy (administered into the peritoneal cavity) for advanced ovarian cancer improves both overall and disease-free survival
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Systematic Reviews in PubMed
Neoadjuvant chemotherapy versus primary debulking surgery in advanced epithelial ovarian cancer: A m [PLoS One. 2017]
Oxidative Stress and Endometriosis: A Systematic Review of the Literature. [Oxid Med Cell Longev. 2017]
Gonadotropin-releasing hormone agonists for ovarian protection during cancer c [Ultrasound Obstet Gynecol. 2017]
Association of the vitamin D receptor FokI gene polymorphism with sex- and non-sex-ass [Tumour Biol. 2017]
Patient-centered research priorities in ovarian cancer: A systematic review of potential determi [Gynecol Oncol. 2017]
See all (2002)...
Systematic Review Methods in PubMed
A comprehensive meta-analysis on dietary flavonoid and lignan intake and cancer risk: Lev [Mol Nutr Food Res. 2017]
[Factors influencing the quality of clinical practice guidelines in ovarian cancer]. [Rev Calid Asist. 2017]
Bevacizumab for Ovarian Cancer at High Risk of Progression: Reproducibility of Trial R [Anticancer Res. 2016]

Cochrane Database of Systematic Reviews: Plain Language Summaries [Internet].

# No evidence to suggest tamoxifen benefits patients with relapsed ovarian cancer

This version published: 2015; Review content assessed as up-to-date: February 01, 2010.

Link to full article: [Cochrane Library] [PMC free article]

## Plain language summary

Ovarian cancer often spreads before symptoms show. Cytotoxic drugs are often only partly effective and cause severe side-effects. The main aims of treatment for relapsed disease are symptom control and prolongation of life. No data from RCTs or non-RCTs were found, so there was no evidence that tamoxifen was effective and safe as a treatment for relapsed ovarian cancer. Laboratory studies suggest tamoxifen may be effective as a treatment for women with ovarian cancer. Although, uncontrolled non-comparative trials on patients with relapsed ovarian cancer showed tamoxifen may shrink or stabilise tumours in a small number, there is a strong need for an RCT or good quality non-randomised comparative studies to determine the effectiveness and safety of tamoxifen in terms of overall survival, tumour response, symptom control, quality of life and adverse events.

## Abstract

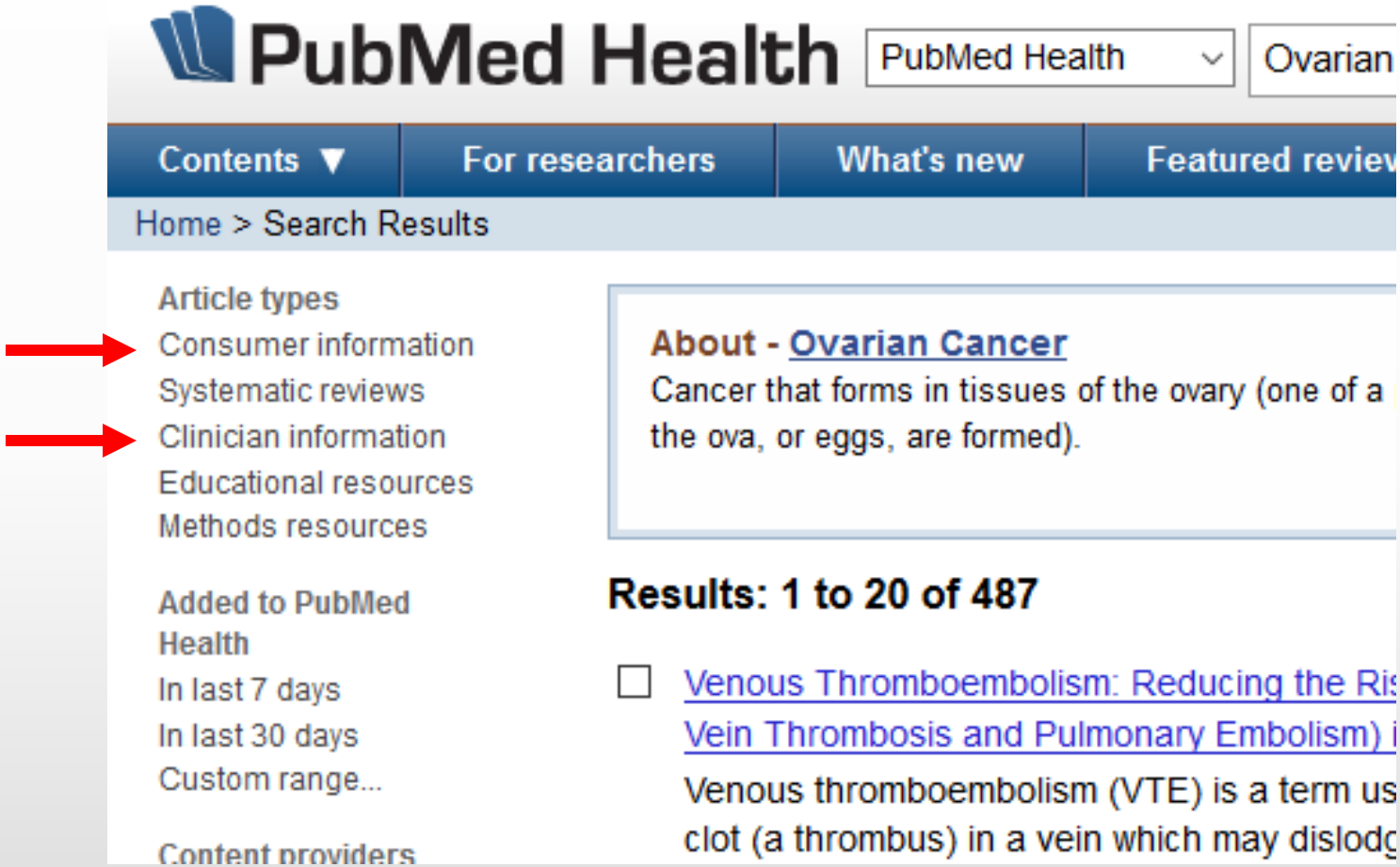
**Background:** Tamoxifen is an important drug for treating breast cancer. Ovarian cancer cells are known to possess receptors for hormones and may thus also respond to tamoxifen.

**Objectives:** Tamoxifen is used to treat breast cancer in women whose tumours have oestrogen receptors. Since ovarian cancers also commonly have oestrogen receptors, it has been suggested that tamoxifen may be of some benefit. The objective of this review was to assess the effects of tamoxifen in women with relapsed ovarian cancer.

**Search methods:** We searched the Cochrane Central Register of Controlled Trials (CENTRAL), Issue 1, 2009. Cochrane Gynaecological Cancer Group Trials Register, MEDLINE from 2002 to April 2009, EMBASE from 2002 to April 2009. We also searched registers of clinical trials, abstracts of scientific meetings, reference lists of review articles and contacted experts in the field, as well as drugs companies.

**Selection criteria:** Randomised and non-randomised studies of tamoxifen in women with ovarian cancer who have not responded to conventional chemotherapy. Only trials involving 10 or more patients were included.

**Data collection and analysis:** Two review authors independently assessed whether potentially relevant studies met the inclusion criteria. No trials were found and therefore no data were analysed.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Cancer that forms in tissues of the ovary (one of a
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Vein Thrombosis and Pulmonary Embolism) i
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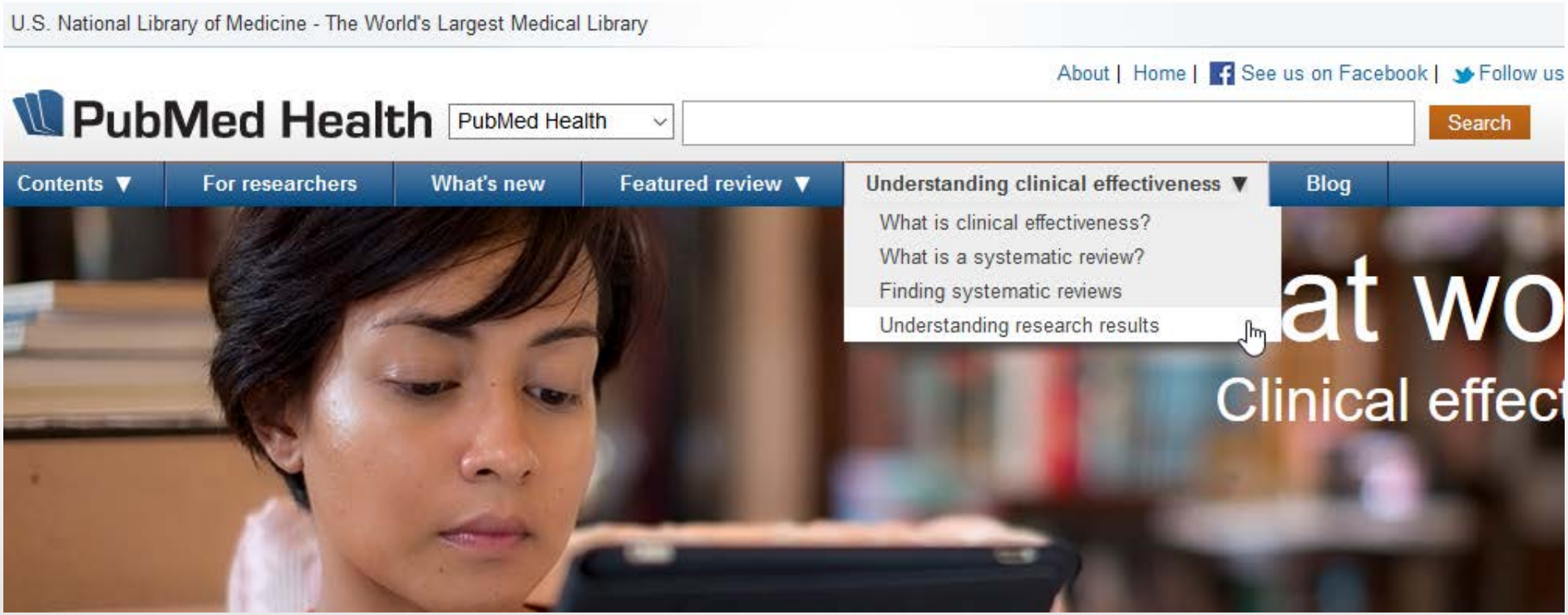
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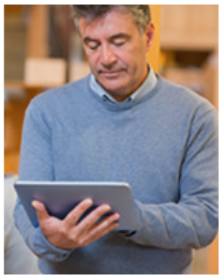


## Understanding research results

Studies, numbers and health claims—we're flooded with them every day. Don't be misled or confused. Use the lively and interesting books on this page to make sense of it all.

One of these books has even been clinically proven to increase readers' data interpretation skills! See the Know Your Chances randomized trials.

The books are all complete and online free here.

### Know your chances

Understanding health statistics

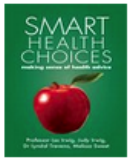
How to see through hype

### Testing treatments

Better research for better healthcare

How we can know if a treatment works

### Smart health choices




Making sense of health advice

Develop the skills for informed decisions

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How to read health news

What to know about screening

Why randomization is important

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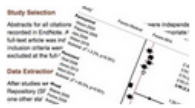


New Research Methods Resources - Plus a PubMed Filter

If you're interested in the scientific methods behind systematic reviews, we've now made it easier for you to...

read all...

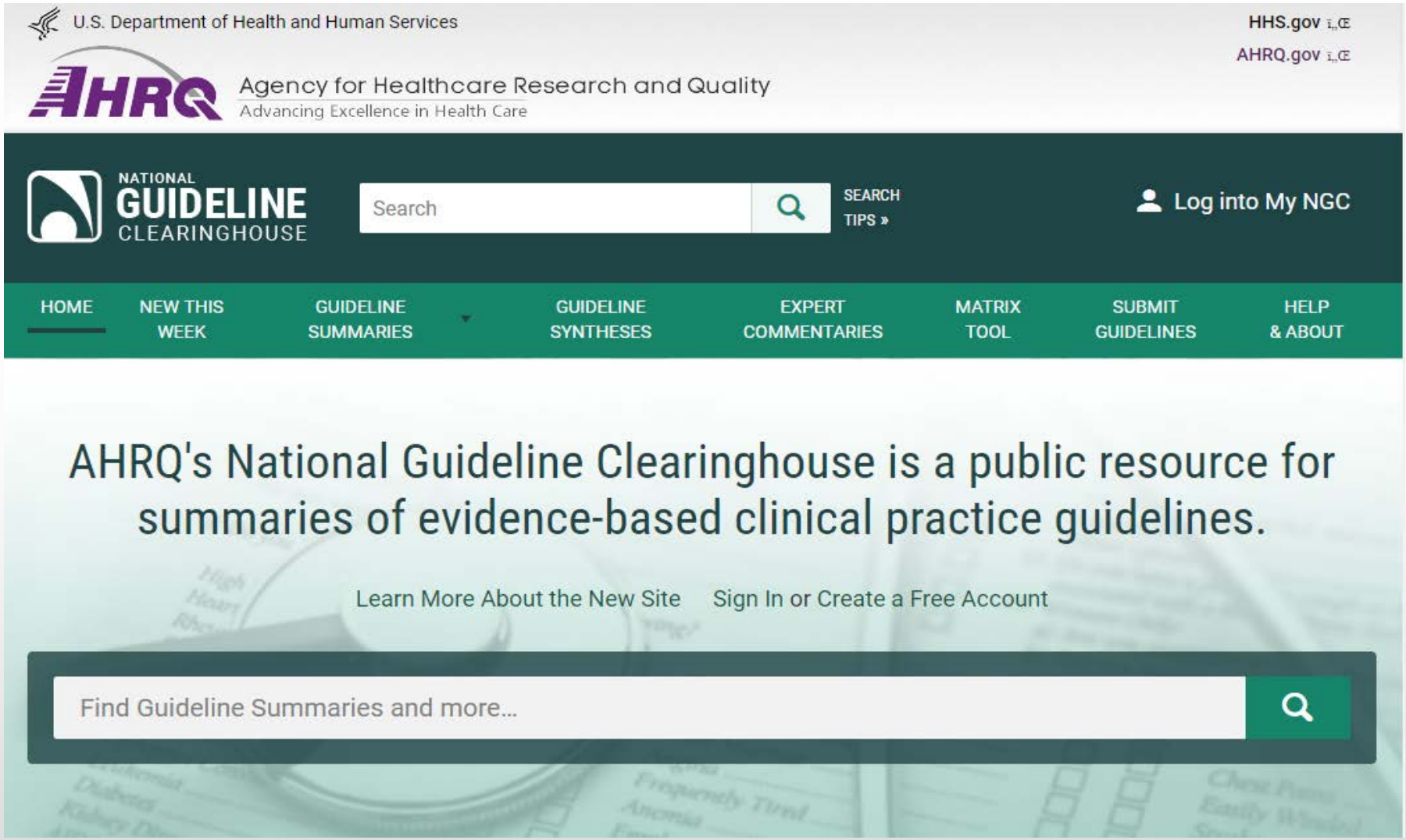
### Systematic Reviews in PubMed

Do adjuvants add to the efficacy and tolerance of bowel preparations? A meta-anal [Endoscopy. 2017]

# PubMed Health

A clinician is wondering what the research suggests about the management of latent tuberculosis. What is one finding?

**www.ncbi.nlm.nih.gov/pubmedhealth**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# National Guideline Clearinghouse

- Resource from the Agency for Healthcare Research and Quality (AHRQ)
- Offers healthcare providers with an accessible way to locate objective and detailed information on clinical practice guidelines
- Uses the definition of clinical practice guideline that was developed by the Institute of Medicine: *"Clinical practice guidelines are statements that include recommendations intended to optimize patient care that are informed by a systematic review of evidence and an assessment of the benefits and harms of alternative care options."*

**Guideline.gov**

1-20 of 152 results for

# "breast cancer"

NARROW RESULTS Clear All

- [ ] Meets 2013 Inclusion Criteria (64)
- [ ] Includes NEATS Assessment (7)
- [ ] U.S.-based Organizations (102)
- [ ] Addresses Multiple Chronic Conditions (4)

**Publication Date**

From: 2008 To: 2017

Apply

**Target Population Characteristics**

**Age**

- [ ] Aged, 80 and over (60)
- [ ] Aged (65 to 79 years) (68)
- [ ] Middle Age (45 to 64 years) (67)
- [ ] Adult (19 to 44 years) (74)

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GUIDELINE SUMMARY NGC:010971

2010 AUG 10; ADDENDA RELEASED 2014 JUL 20 AND 2016 MAY 10

Compare

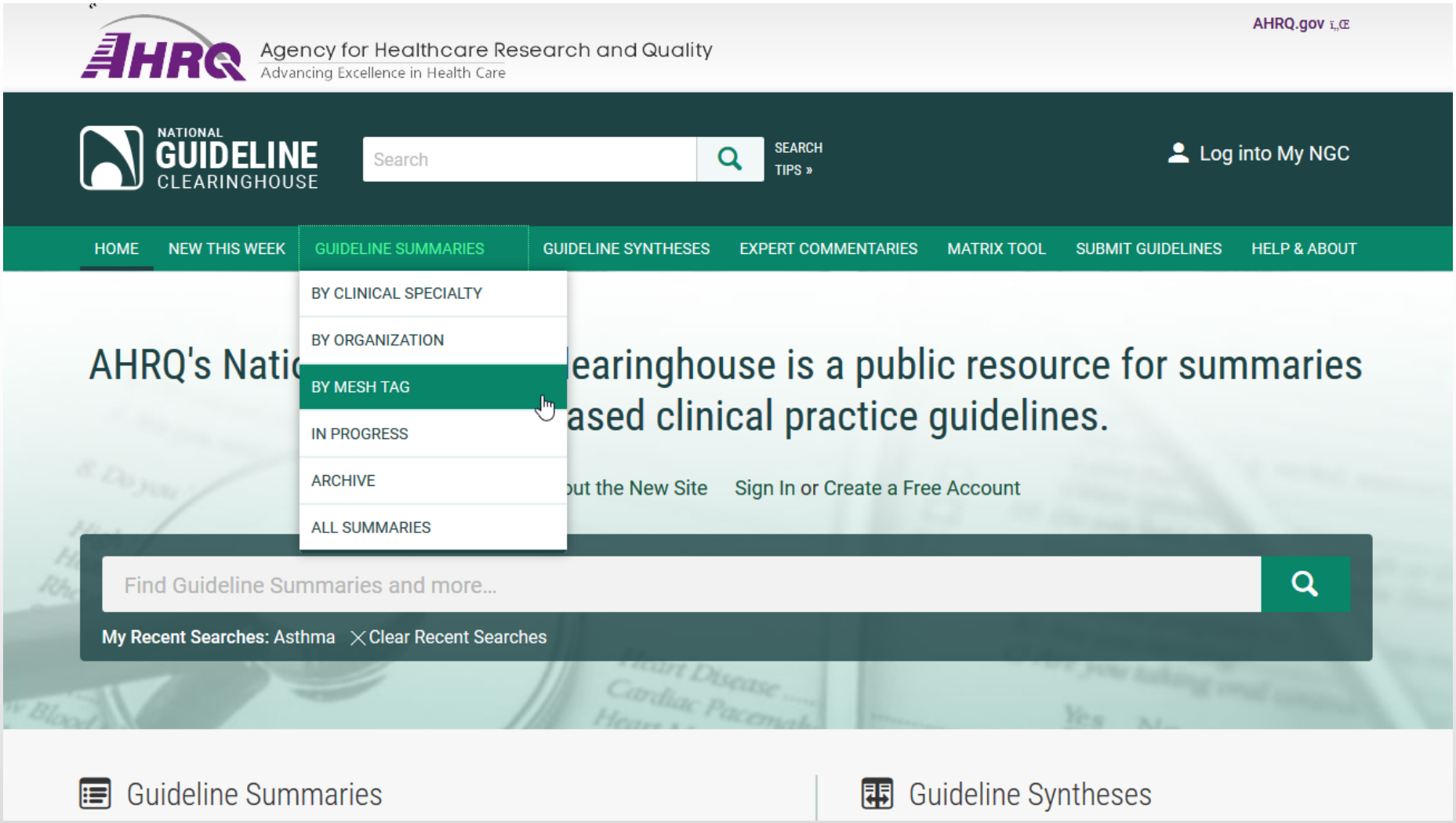
(1) American Society of Clinical Oncology clinical practice guideline: update on adjuvant endocrine therapy for women with hormone receptor–positive breast cancer. (2) Adjuvant endocrine therapy for women with hormone receptor–positive breast cancer: American Society of Clinical Oncology clinical practice guideline focused update. (3) Adjuvant endocrine therapy for women with hormone receptor–positive breast cancer: American Society of Clinical Oncology clinical practice guideline update on ovarian suppression.

American Society of Clinical Oncology

GUIDELINE SUMMARY NGC:009952 2004 MAY (REVISED 2013 JUN)

Compare

Familial breast cancer: classification and care of people at risk of familial breast cancer and management of breast cancer and related risks in people with a family history of breast cancer.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The following concepts classify the clinical specialties that might use the guideline professionally. For more information on each topic, view the Glossary:

- Allergy and Immunology (54)
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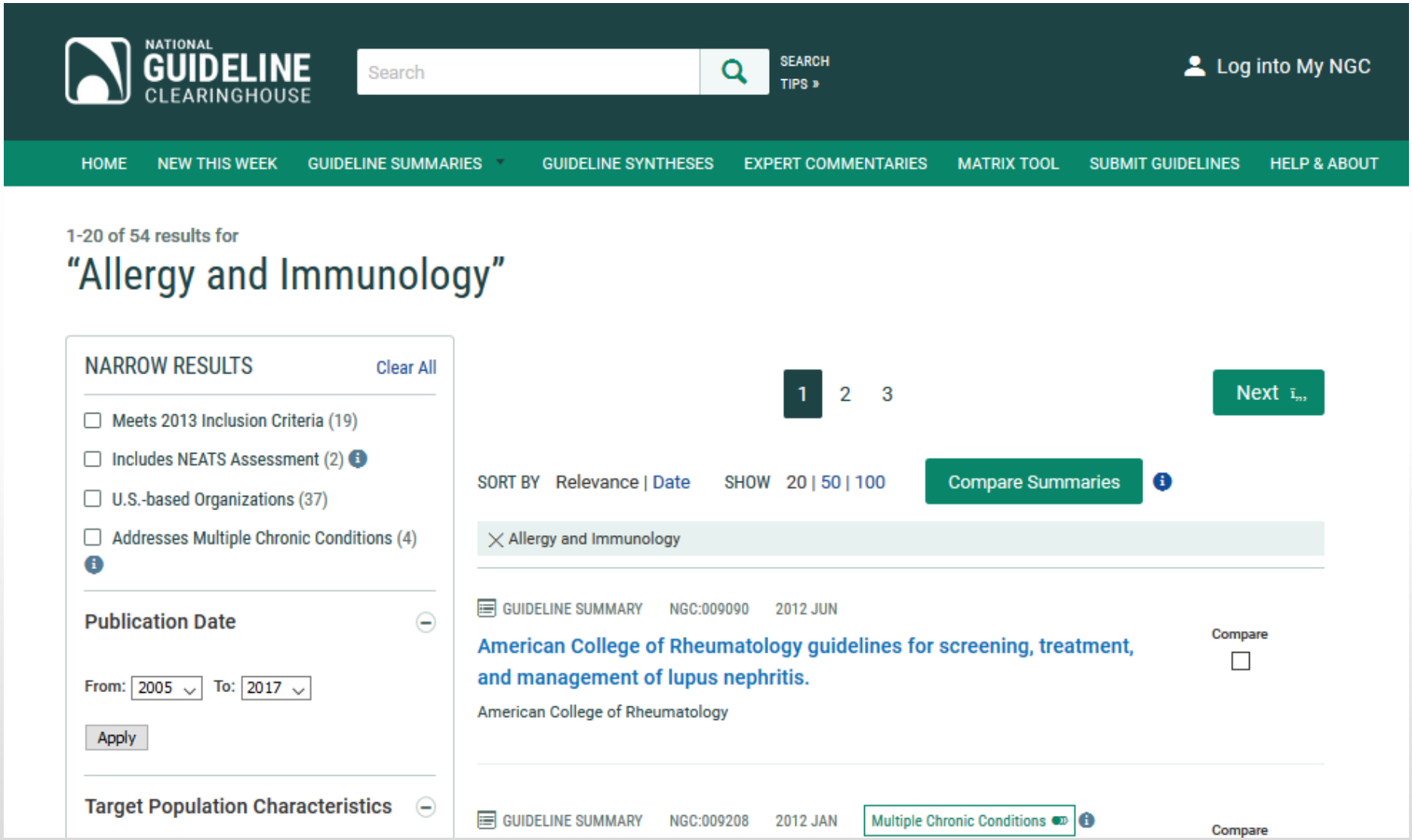
- Cardiology (197)
- Chiropractic (21)
- Colon and Rectal Surgery (40)
- Critical Care (154)
- Dentistry (32)
- Dermatology (62)
- Emergency Medicine (249)
- Endocrinology (142)
- Family Practice (1047)
- Gastroenterology (173)
- Geriatrics (222)
- Hematology (140)
- Infectious Diseases (170)
- Internal Medicine (1029)
- Medical Genetics (78)
- Nephrology (82)
- Neurological Surgery (120)
- Neurology (269)
- Nuclear Medicine (108)
- Nursing (277)
- Nutrition (110)
- Obstetrics and Gynecology (352)
- Oncology (440)
- Ophthalmology (44)
- Optometry (11)
- Orthopedic Surgery (128)
- Otolaryngology (56)
- Pathology (106)
- Pediatrics (437)
- Pharmacology (86)
- Physical Medicine and Rehabilitation (126)
- Plastic Surgery (17)
- Podiatry (22)
- Preventive Medicine (300)
- Psychiatry (119)
- Psychology (121)
- Pulmonary Medicine (172)
- Radiation Oncology (165)
- Radiology (378)
- Rheumatology (67)
- Sleep Medicine (27)
- Speech-Language Pathology (34)
- Sports Medicine (32)
- Surgery (323)
- Thoracic Surgery (92)
- Urology (113)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1-20 of 54 results for
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NARROW RESULTS
Clear All
Meets 2013 Inclusion Criteria (19)
Includes NEATS Assessment (2)
U.S.-based Organizations (37)
Addresses Multiple Chronic Conditions (4)
Publication Date
From: 2005
To: 2017
Apply
Target Population Characteristics
1 2 3
Next
SORT BY Relevance | Date
SHOW 20 | 50 | 100
Compare Summaries
Allergy and Immunology
GUIDELINE SUMMARY NGC:009090 2012 JUN
American College of Rheumatology guidelines for screening, treatment, and management of lupus nephritis.
American College of Rheumatology
Compare
GUIDELINE SUMMARY NGC:009208 2012 JAN
Multiple Chronic Conditions
Compare

## American Academy of Dermatology (6)

## American Academy of Family Physicians (AAFP) (3)

GET ALERTS

2017 MAR 21 NGC:011186

Pharmacologic treatment of hypertension in adults aged 60 years or older to higher versus lower blood pressure targets: a clinical practice guideline from the American College of Physicians and the American Academy of Family Physicians.

1995 APR (REVISED 2014 MAY) NGC:010686

Clinical practice guideline: planning for labor and vaginal birth after cesarean.

2009 JAN (REAFFIRMED 2014) NGC:008078

AAFP guideline for the detection and management of post-myocardial infarction depression.

## American Academy of Neurology (45)

## American Academy of Ophthalmology (3)

## American Academy of Orthopaedic Surgeons (AAOS) (18)

By Clinical Specialty | By MeSH Tag | By Organization

Go to Section

## Disease/Condition

- **Anatomy** (14)
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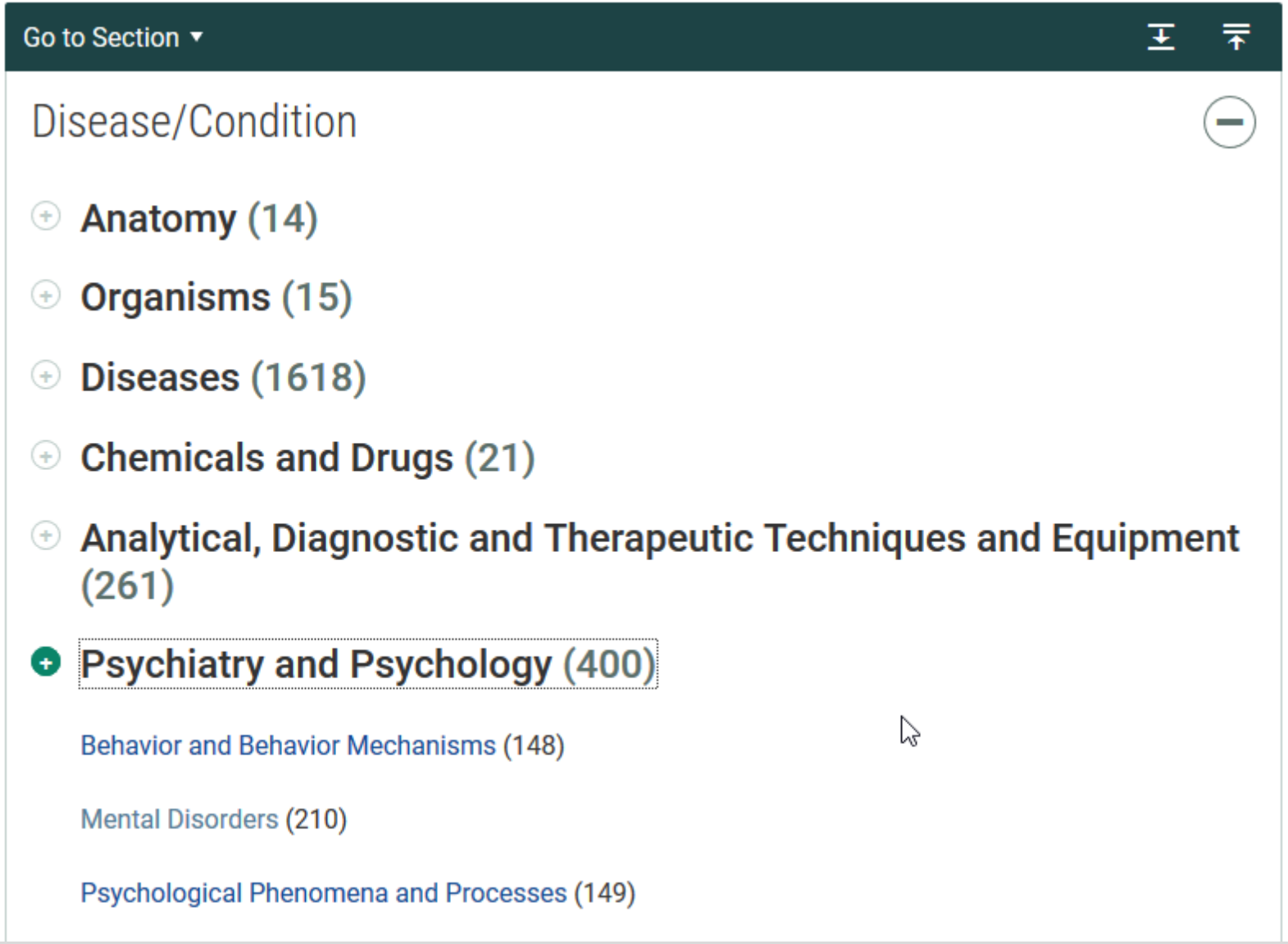
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Psychological Phenomena and Processes (149)

1-20 of 210 results for

# "Mental Disorders"

NARROW RESULTS Clear All

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Mental Disorders

GUIDELINE SUMMARY NGC:009777 2013 FEB 6

**Best evidence statement (BESt). Adding home based services to complement center based intervention for children with autism.**

Cincinnati Children's Hospital Medical Center

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GUIDELINE SUMMARY NGC:011076 2016 SEP 14 Multiple Chronic Conditions

**Mental health problems in people with learning disabilities: prevention, assessment and management.**

National Guideline Alliance

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GUIDELINE SUMMARY NGC:009580 2012 DEC 4

**Best evidence statement (BESt). Functional communication training and**

Compare

# National Guideline Clearinghouse

What does the U.S. Preventive Services Taskforce recommend regarding screening for gestational diabetes?

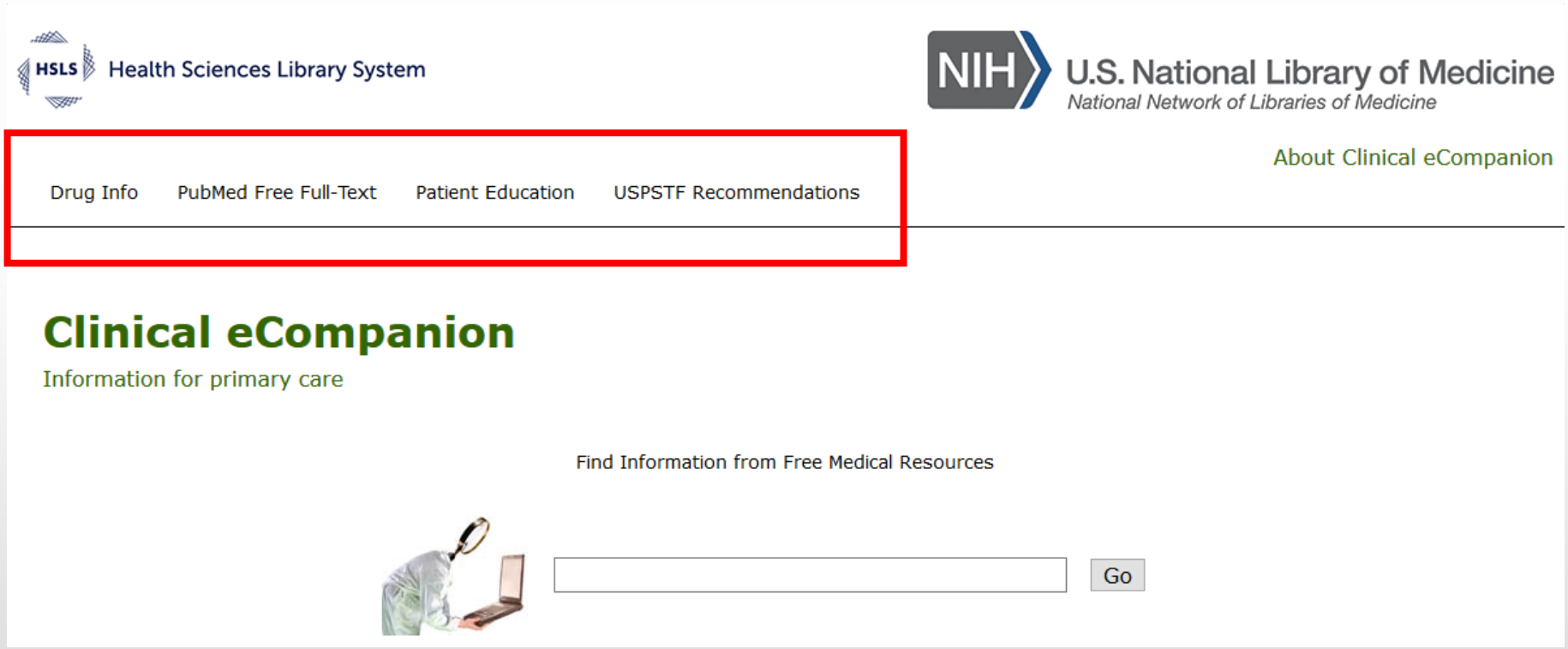
**Guideline.gov**

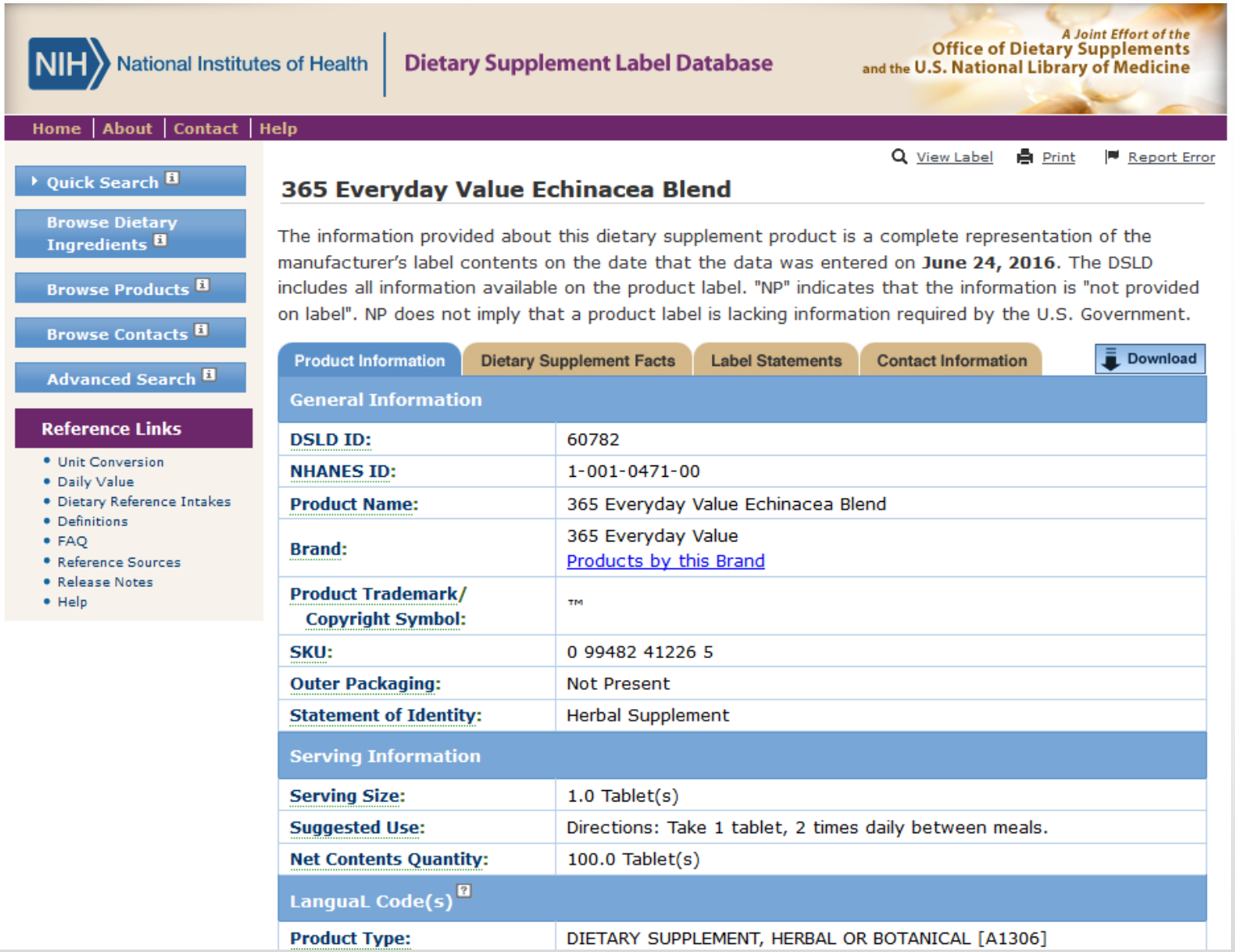
# Clinical eCompanion

- A search engine for primary care providers to answer clinical questions at the point of care
- Developed for healthcare providers without access to subscription databases
- Searches free, reliable clinical resources

**ecompanion.pitt.edu**

# Clinical eCompanion

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365 Everyday Value Echinacea Blend
The information provided about this dietary supplement product is a complete representation of the manufacturer's label contents on the date that the data was entered on June 24, 2016. The DSLD includes all information available on the product label. "NP" indicates that the information is "not provided on label". NP does not imply that a product label is lacking information required by the U.S. Government.
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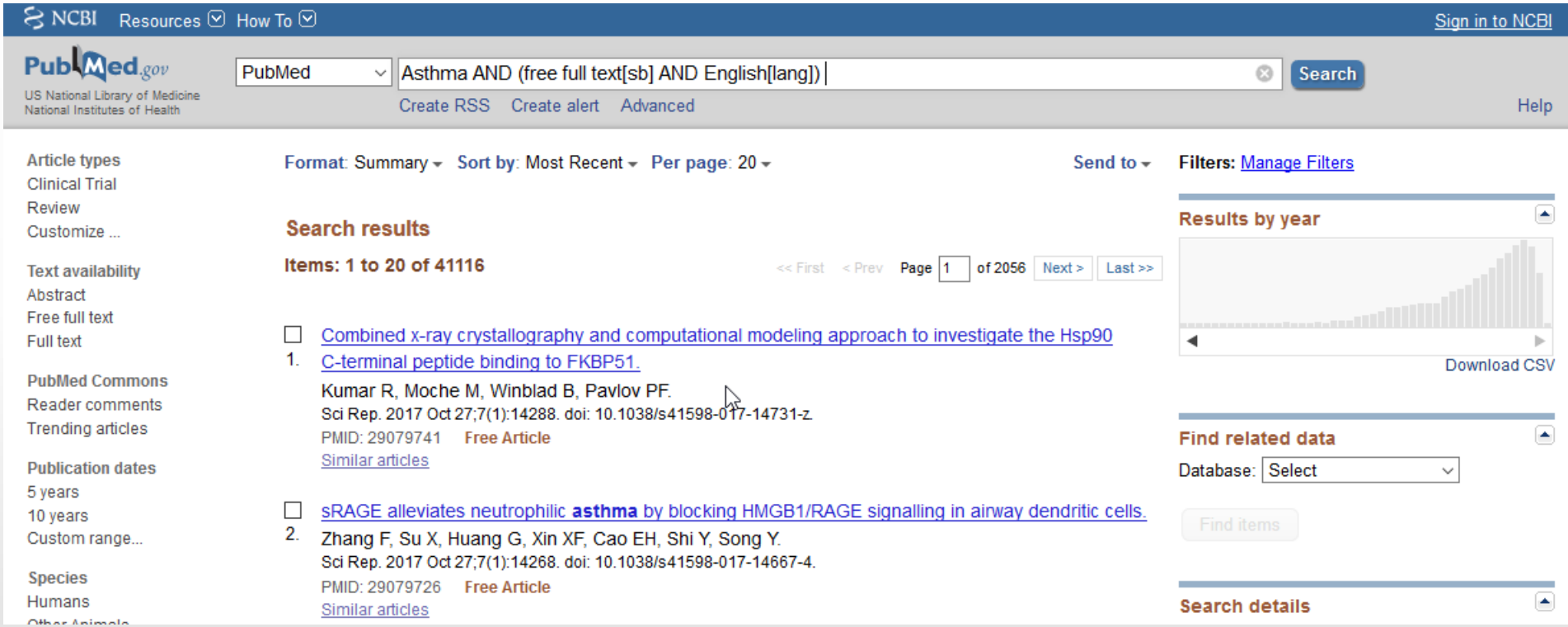
DSLD ID: 60782
NHANES ID: 1-001-0471-00
Product Name: 365 Everyday Value Echinacea Blend
Brand: 365 Everyday Value
Products by this Brand
Product Trademark/ Copyright Symbol: ™
SKU: 0 99482 41226 5
Outer Packaging: Not Present
Statement of Identity: Herbal Supplement
Serving Information
Serving Size: 1.0 Tablet(s)
Suggested Use: Directions: Take 1 tablet, 2 times daily between meals.
Net Contents Quantity: 100.0 Tablet(s)
Langual Code(s)
Product Type: DIETARY SUPPLEMENT, HERBAL OR BOTANICAL [A1306]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1. Combined x-ray crystallography and computational modeling approach to investigate the Hsp90 C-terminal peptide binding to FKBP51.
Kumar R, Moche M, Winblad B, Pavlov PF.
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Zhang F, Su X, Huang G, Xin XF, Cao EH, Shi Y, Song Y.
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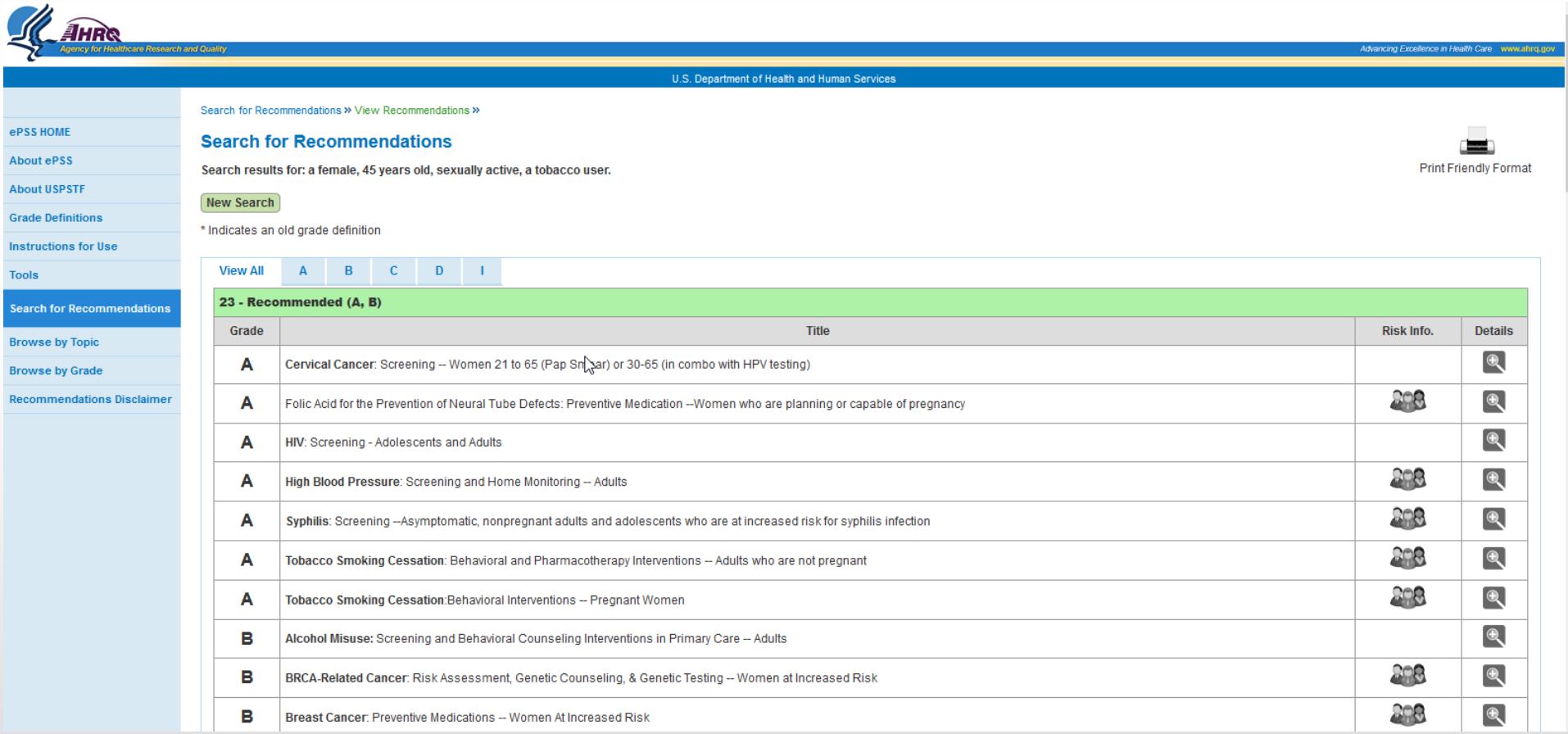
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Search results for: a female, 45 years old, sexually active, a tobacco user.
Print Friendly Format
New Search
* Indicates an old grade definition
View All A B C D I
23 - Recommended (A, B)
Grade Title Risk Info. Details
A Cervical Cancer: Screening -- Women 21 to 65 (Pap Smear) or 30-65 (in combo with HPV testing)
A Folic Acid for the Prevention of Neural Tube Defects: Preventive Medication --Women who are planning or capable of pregnancy
A HIV: Screening - Adolescents and Adults
A High Blood Pressure: Screening and Home Monitoring -- Adults
A Syphilis: Screening --Asymptomatic, nonpregnant adults and adolescents who are at increased risk for syphilis infection
A Tobacco Smoking Cessation: Behavioral and Pharmacotherapy Interventions -- Adults who are not pregnant
A Tobacco Smoking Cessation:Behavioral Interventions -- Pregnant Women
B Alcohol Misuse: Screening and Behavioral Counseling Interventions in Primary Care -- Adults
B BRCA-Related Cancer: Risk Assessment, Genetic Counseling, & Genetic Testing -- Women at Increased Risk
B Breast Cancer: Preventive Medications -- Women At Increased Risk

# Clinical eCompanion

- National Guideline Clearinghouse
- Effective Health Care Program Research Summaries, Reviews, and Reports
- Centers for Disease Control & Prevention A-Z index and MMWR
- NHS Evidence Search ARUP Consult: the Physician's Guide to Laboratory Test Selection and Interpretation
- Radiopaedia.org

PubMed Health
PubMed Health
Asthma
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Methods resources
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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
About - Asthma
Asthma is a chronic (long-term) lung disease that inflames and narrows the airways.
Results: 1 to 20 of 1072
<< First
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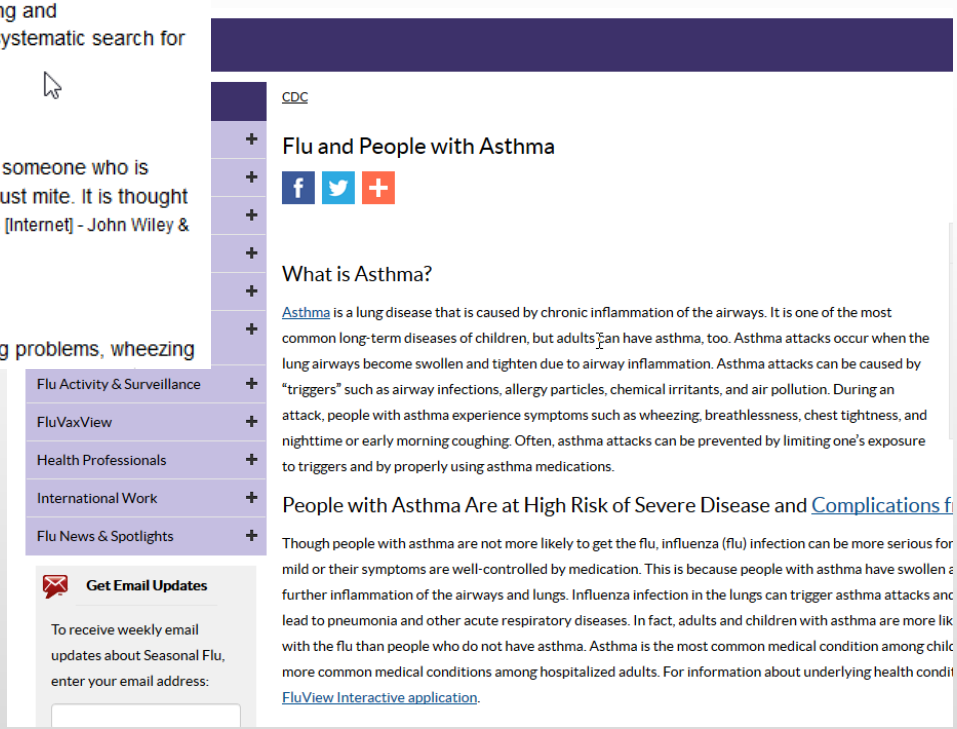
Page 1
Next >
Last >>
Systematic Guideline Search and Appraisal, as Well as Extraction of Relevant Recommendations, for the DMP "Asthma" [Internet]
The aim of this study was to specify a potential need for updating and supplementation of the existing DMP "Asthma" by means of a systematic search for
Institute for Quality and Efficiency in Health Care (IQWiG).
Version: November 26, 2013
Feather versus non-feather bedding for asthma
An allergen is the substance that causes an allergic reaction in someone who is hypersensitive to it. A major allergen for asthma is the house dust mite. It is thought
Cochrane Database of Systematic Reviews: Plain Language Summaries [Internet] - John Wiley & Sons, Ltd.
Version: 2009
Alexander technique for chronic asthma
During an asthma attack, the airways narrow, causing breathing problems, wheezing


CDC
Flu and People with Asthma
Flu Activity & Surveillance
FluVaxView
Health Professionals
International Work
Flu News & Spotlights
Get Email Updates
To receive weekly email updates about Seasonal Flu, enter your email address:
What is Asthma?
Asthma is a lung disease that is caused by chronic inflammation of the airways. It is one of the most common long-term diseases of children, but adults can have asthma, too. Asthma attacks occur when the lung airways become swollen and tighten due to airway inflammation. Asthma attacks can be caused by "triggers" such as airway infections, allergy particles, chemical irritants, and air pollution. During an attack, people with asthma experience symptoms such as wheezing, breathlessness, chest tightness, and nighttime or early morning coughing. Often, asthma attacks can be prevented by limiting one's exposure to triggers and by properly using asthma medications.
People with Asthma Are at High Risk of Severe Disease and Complications f
Though people with asthma are not more likely to get the flu, influenza (flu) infection can be more serious for
mild or their symptoms are well-controlled by medication. This is because people with asthma have swollen a
further inflammation of the airways and lungs. Influenza infection in the lungs can trigger asthma attacks and
lead to pneumonia and other acute respiratory diseases. In fact, adults and children with asthma are more lik
with the flu than people who do not have asthma. Asthma is the most common medical condition among child
more common medical conditions among hospitalized adults. For information about underlying health condit
FluView Interactive application.

# Clinical eCompanion

Information for primary care

Asthma Search

Find term in: Drug Info - PubMed Free Full Text - Patient Education

Topic Source

Top 186 Results remix

+ Health (46)
+ Pulmonary (26)
+ Review (23)
+ Care (19)
+ Treating Severe (14)
+ Asthma Management (12)
+ Chronic asthma (12)
+ Influenza (11)
+ Occupational (11)
+ Rhinitis (8)

more | all

1. CDC - **Asthma** new window
   ... Search Form Controls Cancel Submit Search The CDC **Asthma** Note: Javascript is disabled or is not supported ... CDC.gov . Recommend on Facebook Tweet Shar
   CDC A-Z

2. CDC - MMWR - MMWR Publications - MMWR Weekly: Past Volume (1996) new window
   ... Injuries -- Louisiana, 1994-1995 Human Ehrlichiosis -- Maryland, 1994 **Asthma** Surveillance Programs in Public Health Departments -- United States ... States, 1995
   Hospitalization Among Children and Young Adults -- ...
   CDC Morbidity and Mortality Weekly Report

3. **Asthma** new window
   Radiopaedia

4. The Role of Immunotherapy and the Management of **Asthma**: Systematic Review new window
   AHRQ Effective Health

5. pubmedhealth?term=Asthma new window
   The aim of this study was to specify a potential need for updating and supplementation of the existing DMP "**Asthma**" by means of a systematic search for new evidenc
   guideline recommendations.
   PubMed Health

# Clinical eCompanion

What is one screening recommended for an 80-year-old male, non-smoker, who is not sexually active?

**ecompanion.pitt.edu**

# Clinical eCompanion

Is there any known drug interaction between Lexapro and Warfarin?

**ecompanion.pitt.edu**

# Thanks!

Erin Seger/ ers166@pitt.edu

This project is funded by the National Library of Medicine, National Institutes of Health, Department of Health and Human Services, under Cooperative Agreement Number UG4LM012342 with the University of Pittsburgh, Health Sciences Library System.