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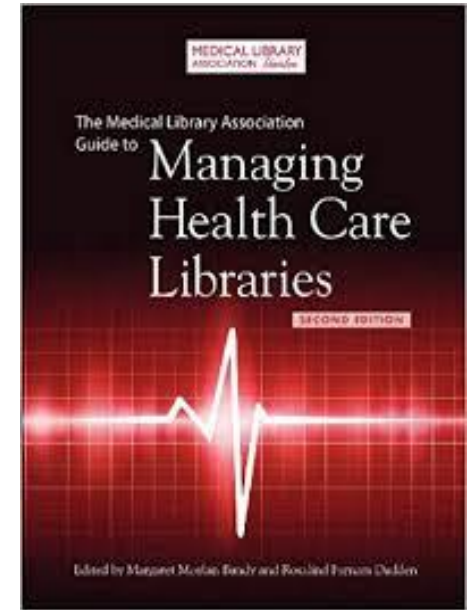
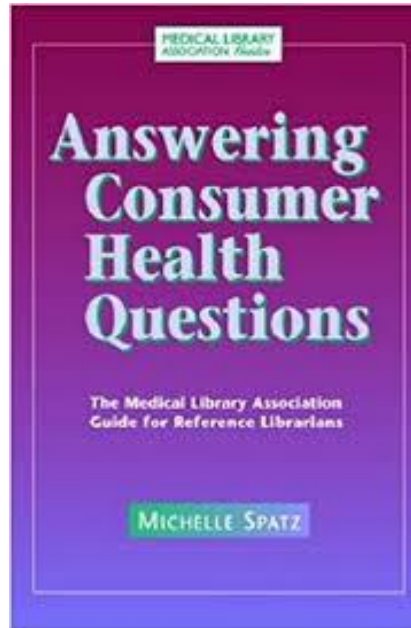
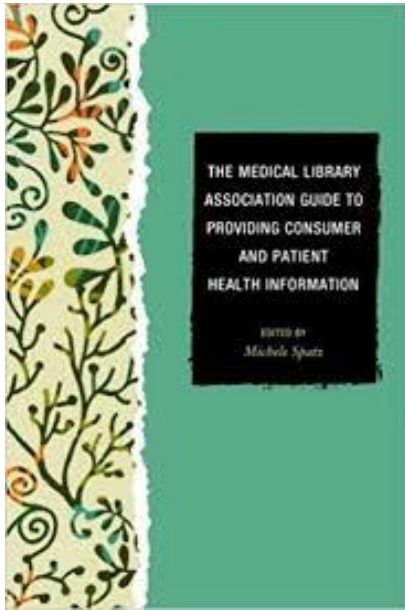
# Cultivating Health: Tools for Harvesting Beyond the Basics Health Information

By: Michele Spatz, M.S.

NNLM All of Us  
Community Engagement  
Coordinator

NNLM PNR, University of  
Washington, Seattle, WA



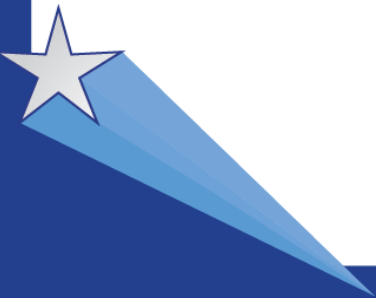


# Introduction

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# Objectives

- Introduce at least one health/medical website that is new to you.
- Improve your ability to respond to health-related questions.



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MEDICINE FOR HEALTHCARE  
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# Library Patron: Can you help me find information on lupus?



# One Stop Shopping

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# https://medlineplus.gov/

The screenshot shows the MedlinePlus website homepage. At the top, there is a blue header with the NIH logo and the text "U.S. National Library of Medicine". Below this is the MedlinePlus logo with the tagline "Trusted Health Information for You". A search bar is located on the right side of the header, with a "GO" button. Below the search bar are links for "About MedlinePlus", "Site Map", "FAQs", and "Customer Support".

The main navigation bar includes "Health Topics", "Drugs & Supplements", "Videos & Tools", and "Español".

On the left side, there are four green boxes with icons and text:

- Health Topics**: Find information on health, wellness, disorders and conditions. (Icon: Apple)
- Drugs & Supplements**: Learn about prescription drugs, over-the-counter medicines, herbs, and supplements. (Icon: Pill)
- Videos & Tools**: Discover tutorials, health and surgery videos, games, and quizzes. (Icon: Play button)
- Lab Test Information**: Learn why your doctor orders laboratory tests and what the results may mean. (Icon: Beaker)
- Medical Encyclopedia**: Articles and images for diseases, symptoms, tests, treatments. (Icon: Stack of books)

On the right side, there is a "Share MedlinePlus" section with social media icons for Facebook, Twitter, and Google+. Below this is a "Have you heard?" section with a photo of a man smiling at a laptop. The text says: "We have launched My MedlinePlus, a weekly newsletter featuring all the latest and greatest from MedlinePlus. Sign-up today." There are five numbered buttons (1-5) and a double bar icon.

Below the "Have you heard?" section is a "Tweets by @MedlinePlus" section. It shows a tweet from MedlinePlus.gov (@medlineplus) with the text: "Reading to toddlers sets the foundation for later independent reading. Studies show that kids with active exposure to language have social and educational advantages over their peers and reading is one of the best exposures to language. ow.ly/nAk730lHXDy #ReadABookDay". There is a photo of a man and a child reading together.

Below the tweet is a "Stay Connected" section. It says "Sign up for MedlinePlus email updates" and has a form with "Enter email address" and a "GO" button. Below this is a "NIH MedlinePlus Magazine" section with a photo of a man and the text "Read the latest issue".

Below the magazine section is a "Clinical Trials" section with the text "Search ClinicalTrials.gov for drug and treatment studies."

At the bottom of the page, there are four icons and text: "Easy-to-Read Materials", "Organizations and Directories", "Health Information in Multiple Languages", and "MedlinePlus Connect for EHRs". Below these are links for "Get email updates", "Subscribe to RSS", and "Follow us" with social media icons for Twitter, Facebook, and Google+.

At the very bottom, there is a footer with disclaimers and contact information: "Disclaimers Copyright Privacy Accessibility Quality Guidelines Viewers & Players MedlinePlus Connect for EHRs For Developers U.S. National Library of Medicine 8600 Rockville Pike, Bethesda, MD 20894 U.S. Department of Health and Human Services National Institutes of Health FOIA USA.gov".

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**Videos y multimedia**  
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Entérese por qué el doctor pide esa prueba y qué significan sus resultados

**Enciclopedia médica**  
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**Documentos de lectura fácil**

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**Septiembre es el Mes Nacional de Concientización sobre el Cáncer de Próstata**

Infórmese sobre los exámenes para el cáncer de próstata

1 2 3 4 ▶

**Tweets de @MedlinePlusEsp**

 **MedlinePlus Español** @MedlinePlusEsp

El abdomen se extiende desde abajo del pecho hasta la ingle y contiene muchos otros órganos importantes. ¿Cuándo un dolor abdominal puede significar algo más serio? Eso y más aquí [ow.ly/wlq30IHXH5](https://ow.ly/wlq30IHXH5)



34min

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Página actualizada 5 septiembre 2018 Dirección de esta página: <https://medlineplus.gov/spanish>





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Low Birth Weight Disease see Anhydrotic Eritropoiesis

Low Back Pain see Back Pain

Low Birth Weight see Birth Weight

Low Blood Pressure

Low Blood Sugar see Hypoglycemia

Low Cholesterol Diet see How to Lower Cholesterol with Diet

Low Sperm Count see Male Infertility

Low Vision see Vision Impairment and Blindness

LTK see Laser Eye Surgery

Lumbago see Back Pain

Lumpectomy see Mastectomy

Lung Cancer

Lung Diseases

Lung Rehabilitation see Pulmonary Rehabilitation

Lung Transplantation

Lupus

Lyme Disease

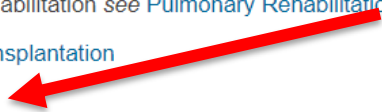
Lymph Nodes see Lymphatic Diseases

Lymphatic Diseases

Lymphatic Obstruction see Lymphedema

Lymphedema

Lymphoma



[Página Principal](#) → [Temas de salud](#) → [Lupus](#)

## Lupus



### En esta página

#### Entérese

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- [Comience aquí](#)
- [Diagnóstico y exámenes](#)
- [Tratamientos y terapias](#)

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## Introducción

### ¿Qué es el lupus?

El lupus es una [enfermedad autoinmune](#), es decir, el propio sistema inmunitario ataca las células y tejidos sanos por error. Esto puede dañar muchas partes del cuerpo, incluyendo las articulaciones, piel, riñones, corazón, pulmones, vasos sanguíneos y el cerebro.

Hay varios tipos de lupus:

Reciba actualizaciones sobre

Lupus por email 

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relax may make it easier for you to cope. A good support system can also help.

*NIH: National Institute of Arthritis and Musculoskeletal and Skin Diseases*


## Start Here

---

- [I Am Newly Diagnosed with Lupus](#) (Lupus Foundation of America)
- [Lupus among Asians and Hispanics](#) (Centers for Disease Control and Prevention)  
Also in Spanish
- [Systemic Lupus Erythematosus \(Lupus\)](#)  
 (National Institute of Arthritis and Musculoskeletal and Skin Diseases)  
Also in Spanish


## Diagnosis and Tests

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- [ANA \(Antinuclear Antibody\) Test](#)  (National Library of Medicine)
- [Diagnosing Lupus](#) (Lupus Foundation of America)

## Treatments and Therapies

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- [Systemic Lupus Erythematosus \(SLE\) \(Beyond the Basics\)](#) (UpToDate)
- [Thunder God Vine](#)  (National Center for Complementary and Integrative Health)
- [Treatment Options](#) (Lupus Foundation of America)

## Living With


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- [Diet and Nutrition With Lupus](#) (Lupus Foundation of America)  
Also in Spanish
- [Living with Lupus](#) (Lupus Foundation of America)


## Related Issues


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- [Caregivers](#) (Lupus Foundation of America)



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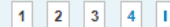
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## Drugs, Herbs and Supplements



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**Browse by generic or brand name:**

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

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Plaquenil



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## Drugs, Herbs and Supplements

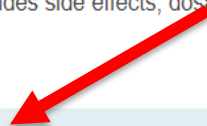


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### Refine by Type

**All Results** (82)Results 1 - 10 of 76 for **Plaquenil**

#### 1. **Hydroxychloroquine**

**Plaquenil**® ... **Hydroxychloroquine** is in a class of drugs called antimalarials. It is used to prevent and treat acute ... **Hydroxychloroquine** comes as a tablet to take by mouth. For prevention of malaria in adults, two tablets ...

<https://medlineplus.gov/druginfo/meds/a601240.html> - Drugs and Supplements

#### 2. **Porphyria Cutanea Tarda (PCT)** (American Porphyria Foundation)

... doses of either chloroquine (125mg twice weekly) or **hydroxychloroquine** (100mg twice weekly). Usual dosages of these drugs ... be treated with low doses of chloroquine and **hydroxychloroquine**, which can also reduce iron levels in the ...

[www.porphyrifoundation.com/.../types-of-porphyrin/PCT](http://www.porphyrifoundation.com/.../types-of-porphyrin/PCT) - External Health Links

#### 3. **Calcium Pyrophosphate Deposition (CPPD)** (American College of Rheumatology)

... Cyclophosphamide (Cytoxan) Cyclosporine (Neoral, Sandimmune, Gengraf)






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[Página Principal](#) → [Medicinas, hierbas y suplementos](#) → [Hidroxicloroquina](#)

## Hidroxicloroquina



¿Para cuáles condiciones o enfermedades se prescribe este medicamento?

¿Cómo se debe usar este medicamento?

¿Qué otro uso se le da a este medicamento?

¿Cuáles son las precauciones especiales que debo seguir?

¿Qué tengo que hacer si me olvido de tomar una dosis?

¿Cuáles son los efectos secundarios que podría provocar este medicamento?

¿Cómo debo almacenar o desechar este medicamento?

¿Qué debo hacer en caso de una sobredosis?

¿Qué otra información de importancia debería saber?

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### ¿Para cuáles condiciones o enfermedades se prescribe este medicamento?

La hidroxicloroquina pertenece a una clase de medicamentos llamados antimaláricos. Se usa para prevenir y tratar los ataques agudos de malaria. También se usa para tratar lupus eritematoso sistémico y discoide y la artritis reumatoide en los pacientes cuyos síntomas no han mejorado con otros tratamientos.

Este medicamento también puede ser prescrito para otros usos; pídale más información a su doctor o farmacéutico.

### ¿Cómo se debe usar este medicamento?

La hidroxicloroquina viene en forma de tabletas para tomar por vía oral. Para la prevención de la malaria en los adultos se toman dos tabletas una



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## Herbs and Supplements



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

### A

[Acai](#) (National Center for Complementary and Integrative Health)

[Activated Charcoal](#) (Natural Medicines Comprehensive Database)

[Alfalfa](#) (Natural Medicines Comprehensive Database)

[Aloe Vera](#) (National Center for Complementary and Integrative Health)

[American Ginseng](#) (Natural Medicines Comprehensive Database)

[Aristolochic Acids](#) (National Toxicology Program) - PDF

[Arnica](#) (Natural Medicines Comprehensive Database)

[Ashwagandha](#) (Natural Medicines Comprehensive Database)

[Asian Ginseng](#) (National Center for Complementary and Integrative Health)

[Astragalus](#) (National Center for Complementary and Integrative Health)

## Are there safety concerns?

---

Alfalfa leaves are **POSSIBLY SAFE** for most adults. However, taking alfalfa seeds long-term is **LIKELY UNSAFE**. Alfalfa seed products may cause reactions that are similar to the autoimmune disease called lupus erythematosus.

Alfalfa might also cause some people's skin to become extra sensitive to the sun. Wear sunblock outside, especially if you are light-skinned.

### Special precautions & warnings:

**Pregnancy or breast-feeding:** Using alfalfa in amounts larger than what is commonly found in food is **POSSIBLY UNSAFE** during pregnancy and breast-feeding. There is some evidence that alfalfa may act like estrogen, and this might affect the pregnancy.

**“Auto-immune diseases” such as multiple sclerosis (MS), lupus (systemic lupus erythematosus, SLE), rheumatoid arthritis (RA), or other conditions:** Alfalfa might cause the immune system to become more active, and this could increase the symptoms of auto-immune diseases. There are two case reports of SLE patients experiencing disease flare after taking alfalfa seed products long-term. If you have an auto-immune condition, it's best to avoid using alfalfa until more is known.

**Hormone-sensitive condition such as breast cancer, uterine cancer, ovarian cancer, endometriosis, or uterine fibroids:** Alfalfa might have the same effects as the female hormone estrogen. If you have any condition that might be made worse by exposure to estrogen, don't use alfalfa.

**Diabetes:** Alfalfa might lower blood sugar levels. If you have diabetes and take alfalfa, monitor your blood sugar levels closely.

**Kidney transplant:** There is one report of a kidney transplant rejection following the three-month use of a supplement that contained alfalfa and black cohosh. This outcome is more likely due to alfalfa than black cohosh. There is some evidence that alfalfa can boost the immune system and this might make the anti-rejection drug cyclosporine less effective.

## Are there interactions with medications?


---


### Major


**Do not take this combination.**


### Warfarin (Coumadin)

Alfalfa contains large amounts of vitamin K. Vitamin K is used by the body to help blood clot. Warfarin (Coumadin) is used to slow blood clotting. By helping the blood clot, alfalfa might decrease the effectiveness of warfarin (Coumadin). Be sure to have your blood checked regularly. The dose of your warfarin (Coumadin) might need to be changed.

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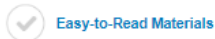
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[Home](#) → [Lab Test Information](#)

## Lab Test Information



Learn about your laboratory tests, including what the lab test is used for, why your doctor ordered it, how the test will feel, and what the results may mean. A laboratory test checks a sample of blood, urine, other bodily fluid, or tissue to get more information about your health. Your doctor may order these tests as part of a routine checkup, to check for certain diseases and conditions or to monitor your health.

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### A

[Albumin Blood Test](#)

[Alkaline Phosphatase](#)

[Allergy Blood Test](#)

[Alpha-Fetoprotein \(AFP\) Test](#)

[ALT Blood Test](#)

[Amylase Test](#)

[ANA \(Antinuclear Antibody\) Test](#)

[Anion Gap Blood Test](#)

[AST Test](#)

### B

[Bacteria Culture Test](#)

[Bilirubin Blood Test](#)



#### Related MedlinePlus Health Topics

[Laboratory Tests](#)

[Prenatal Testing](#)

[Genetic Testing](#)

[Liver Function Tests](#)

[Hepatitis Testing](#)

## Why do I need an ANA test?

Your health care provider may order an ANA test if you have symptoms of lupus or another autoimmune disorder. These symptoms include:

- Fever
- Red, butterfly-shaped rash (a symptom of lupus)
- Fatigue
- Joint pain and swelling
- Muscle pain

## What happens during an ANA test?

A health care professional will take a blood sample from a vein in your arm, using a small needle. After the needle is inserted, a small amount of blood will be collected into a test tube or vial. You may feel a little sting when the needle goes in or out. This usually takes less than five minutes.

## Will I need to do anything to prepare for the test?

You don't need any special preparations for an ANA test.

## Are there any risks to the test?

There is very little risk to having a blood test. You may have slight pain or bruising at the spot where the needle was put in, but most symptoms go away quickly.

## What do the results mean?

A positive result on an ANA test means that antinuclear antibodies were found in your blood. You may get a positive result if:

- You have SLE (lupus).
- You have a different type of autoimmune disease.
- You have a viral infection.

A positive result doesn't necessarily mean you have a disease. Some healthy people have antinuclear

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## Videos & Tools



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



### Health Videos

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



### Surgery Videos

Find videos of operations and surgical procedures.



### Health Check Tools

Check your health with interactive calculators, quizzes and questionnaires.




### Games


Boost your health knowledge by playing interactive health games.


### Search all Videos & Tutorials


[GO](#)[Understanding Medical Words Tutorial](#)[Evaluating Health Information Tutorial](#)[To Your Health: NLM Update Podcast](#)



 **Health Topics**  
Find information on health, wellness, disorders and conditions


 **Drugs & Supplements**  
Learn about prescription drugs, over-the-counter medicines, herbs, and supplements

 **Videos & Tools**  
Discover tutorials, health and surgery videos, games, and quizzes

 **Lab Test Information**  
Learn why your doctor orders laboratory tests and what the results may mean

 **Medical Encyclopedia**  
Articles and images for diseases, symptoms, tests, treatments



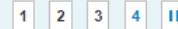
Share MedlinePlus   



Have you heard?

We have launched My MedlinePlus, a weekly newsletter featuring all the latest and greatest from MedlinePlus.

[Sign-up today.](#)



Tweets by @MedlinePlus

 **MedlinePlus.gov** @medlineplus

Reading to toddlers sets the foundation for later independent reading. Studies show that kids with active exposure to language have social and educational advantages over their peers and reading is one of the best exposures to language. [ow.ly/nAk730IHxDy #ReadABookDay](#)



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NIH MedlinePlus Magazine

Read the latest issue



Clinical Trials

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



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[Health Topics](#) [Drugs & Supplements](#) [Videos & Tools](#)

[Home](#) → [Multiple Languages](#)

## Health Information in Multiple Languages



Use these links to find health information in languages other than English. See our [quality guidelines](#) for how we select the links on these pages.

Browse information in multiple languages by [health topic](#).

[Albanian](#) (Gjuha Shqipe)

[Amharic](#) (Amariñña / አማርኛ)

[Arabic](#) (العربية)

[Armenian](#) (Հայերեն)

[Bengali](#) (Bangla / বাংলা)

[Bosnian](#) (bosanski)

[Burmese](#) (myanma bhasa)

[Cape Verdean Creole](#) (Kabuverdianu)

[Chinese, Simplified](#) (Mandarin dialect) (简体中文)

[Chinese, Traditional](#) (Cantonese dialect) (繁體中文)

[Chuukese](#) (Trukese)



Visit [HealthReach](#) for additional multilingual health information.



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[Health Topics](#) [Drugs & Supplements](#) [Videos & Tools](#)

Home → [Multiple Languages](#) → [Polish \(polski\)](#)

## Health Information in Polish (polski)



Go to: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [XYZ](#)

HealthReach resources will open in a new window.



### B

#### Blood Count Tests

- [Your Lab Tests - English PDF](#)  
[Your Lab Tests - polski \(Polish\) PDF](#)  
American Cancer Society

### C

#### Cancer

- [American Cancer Society Guidelines for the Early Detection of Cancer - English PDF](#)  
[American Cancer Society Guidelines for the Early Detection of Cancer - polski \(Polish\) PDF](#)  
American Cancer Society
- [For the Caregiver - English PDF](#)  
[For the Caregiver - polski \(Polish\) PDF](#)

# Zalecenia Amerykańskiego Stowarzyszenia do Walki z Rakiem dotyczące wczesnego wykrywania raka

## American Cancer Society Guidelines for the Early Detection of Cancer

Amerykańskie Stowarzyszenie do Walki z Rakiem rekomenduje wymienione poniżej zasady przeprowadzania badań profilaktycznych na raka dla większości osób dorosłych. Badania profilaktyczne mają na celu wykrycie raka, kiedy nie występują jeszcze żadne objawy.

Odwiedź naszą stronę, [www.cancer.org](http://www.cancer.org), lub zadzwoń na bezpłatny numer 1-800-227-2345, żeby poznać szczegóły dotyczące zasad przeprowadzania badań profilaktycznych lub w celu dowiedzenia się więcej o tym, co można robić, żeby zmniejszyć ryzyko zachorowania na raka.

### Rak piersi

- **Kobiety w wieku od 40 do 44 lat** powinny mieć możliwość zapoczątkowania rocznych badań profilaktycznych na raka piersi z zastosowaniem mammografii (badanie radiologiczne piersi), jeżeli taka jest ich wola.



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[Health Topics](#)

[Drugs & Supplements](#)

[Videos & Tools](#)

[Español](#)

[Home](#) → [About MedlinePlus](#) → [Linking to MedlinePlus](#)

## Linking to MedlinePlus



You are welcome to link to MedlinePlus (<https://medlineplus.gov/>) and to any of its [health topic](#) pages. Please indicate that the link is to [MedlinePlus.gov](#).

We recommend that you link to:

- the MedlinePlus homepage (<https://medlineplus.gov/>)
- MedlinePlus en español (<https://medlineplus.gov/spanish/>)

When you see the Share button on a MedlinePlus page, you may use it to link to that page in your individual social networks.

You may also link to any of the widgets and buttons provided by MedlinePlus. Visit the MedlinePlus [widgets and buttons](#) page to find instructions on how to embed MedlinePlus HTML code in your own Web sites.

MedlinePlus provides XML data via its [Web service](#) and [XML files](#). These services are designed for use by developers, and they allow you to easily display, customize, and repurpose MedlinePlus data. If you want to link patients or healthcare providers from electronic health record (EHR) systems to relevant MedlinePlus information, use [MedlinePlus Connect](#). You are welcome to link to and display the data provided by these services. Please observe the general guidelines for [NLM APIs](#) regarding the use of NLM data and logos.

You can use the following text to describe MedlinePlus:

MedlinePlus directs you to information to help answer health questions. MedlinePlus brings together authoritative information from NLM, the

# Library Patron: Is there any information on the genetics of lupus?





# Genetics Home Reference

Your Guide to Understanding  
Genetic Conditions

<https://ghr.nlm.nih.gov/>

The screenshot shows the homepage of the Genetics Home Reference website. At the top left is the NIH logo and the text "U.S. National Library of Medicine". To the right is a "Share This Page" button. Below this is the "Genetics Home Reference" logo and the tagline "Your Guide to Understanding Genetic Conditions". A search bar is located to the right of the tagline. A navigation menu includes "Health Conditions", "Genes", "Chromosomes & mtDNA", "Resources", and "Help Me Understand Genetics". A large banner image features a DNA double helix and the text: "Genetics Home Reference provides consumer-friendly information about the effects of genetic variation on human health." Below the banner are two main sections: "Health Conditions" with a circular icon and a photograph of a family, and "Recently Added Pages" with a blue header and a list of new pages including "GRIN2B-related neurodevelopmental disorder" and "MBD5-associated neurodevelopmental disorder".

NIH U.S. National Library of Medicine

Share This Page

Genetics Home Reference  
Your Guide to Understanding Genetic Conditions

Search

Health Conditions Genes Chromosomes & mtDNA Resources Help Me Understand Genetics

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

**Health Conditions**  
Learn about the signs and symptoms, causes, and inheritance of more than 1,200 health conditions with a genetic basis.

**Recently Added Pages**

**New Pages**

- GRIN2B-related neurodevelopmental disorder
- MBD5-associated neurodevelopmental disorder





Health Conditions

Genes

Chromosomes & mtDNA

Resources

Help Me Understand Genetics

LTBL, see [Leukoencephalopathy with thalamus and brainstem involvement and high lactate](#)

Lubag, see [X-linked dystonia-parkinsonism](#)

Lubs X-linked mental retardation syndrome, see [MECP2 duplication syndrome](#)

[Lujan syndrome](#)

Lujan-Fryns syndrome, see [Lujan syndrome](#)

Lundborg-Unverricht syndrome, see [Unverricht-Lundborg disease](#)

[Lung cancer](#)

lung malignancies, see [Lung cancer](#)

lung malignant tumors, see [Lung cancer](#)

lung neoplasms, see [Lung cancer](#)

lupus, see [Systemic lupus erythematosus](#)

Luschka-Magendie foramina atresia, see [Dandy-Walker malformation](#)

LVHT, see [Left ventricular noncompaction](#)

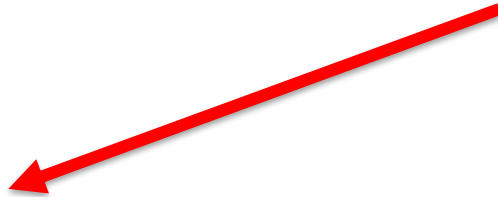
LVM, see [Megalencephalic leukoencephalopathy with subcortical cysts](#)

LWD, see [Léri-Weill dyschondrosteosis](#)

Lyell's syndrome, see [Stevens-Johnson syndrome/toxic epidermal necrolysis](#)

Lyme borreliosis, see [Lyme disease](#)

[Lyme disease](#)





# Systemic lupus erythematosus

[Printable PDF](#) [Open All](#) [Close All](#)

- ▶ **Description**
- ▶ **Frequency**
- ▶ **Causes**
- ▶ **Inheritance Pattern**
- ▶ **Diagnosis & Management Links**
- ▶ **Other Names for This Condition**
- ▶ **Additional Information & Resources**

[/ghr.nlm.nih.gov/condition/systemic-lupus-erythematosus#genes](https://ghr.nlm.nih.gov/condition/systemic-lupus-erythematosus#genes)



## ▼ Causes

Normal variations (polymorphisms) in many genes can affect the risk of developing SLE, and in most cases multiple genetic factors are thought to be involved. In rare cases, SLE is caused by mutations in single genes. Most of the genes associated with SLE are involved in immune system function, and variations in these genes likely affect proper targeting and control of the immune response. Sex hormones and a variety of environmental factors including viral infections, diet, stress, chemical exposures, and sunlight are also thought to play a role in triggering this complex disorder. About 10 percent of SLE cases are thought to be triggered by drug exposure, and more than 80 drugs that may be involved have been identified.

In people with SLE, cells that have undergone self-destruction ([apoptosis](#)) because they are damaged or no longer needed are not cleared away properly. The relationship of this loss of function to the cause or features of SLE is unclear. Researchers suggest that these dead cells may release substances that cause the immune system to react inappropriately and attack the body's tissues, resulting in the signs and symptoms of SLE.

▶ [Learn more about the genes associated with systemic lupus erythematosus](#)

## Related Information

[What is a gene?](#)

[What is a gene mutation and how do mutations occur?](#)

[How can gene mutations affect health and development?](#)

More about [Mutations and Health](#)

## ▼ Inheritance Pattern



Health Conditions

Genes

Chromosomes & mtDNA

Resources

Help Me Understand Genetics

▶ Health information from MedlinePlus (4 links)

▶ Genetic and Rare Diseases Information Center (1 link)

▶ Additional NIH Resources (3 links)

▶ Educational Resources (7 links)

▼ Patient Support and Advocacy Resources (4 links)

- [Alliance for Lupus Research](#) 
- [American Autoimmune-Related Diseases Association](#) 
- [Lupus and Allied Diseases Association](#) 
- [Lupus Foundation of America](#) 

▶ Scientific Articles on PubMed (1 link)

▶ Catalog of Genes and Diseases from OMIM (21 links)



Your Guide to Understanding Genetic Conditions

Health Conditions

**Genes**

Chromosomes & mtDNA

Resources

Help Me Understand Genetics



# Genes

Explore the normal functions of human genes and the health implications of genetic changes.

- A** B C D E F G H I J K L M N O P Q R
- S T U V W X Y Z

- [AAAS](#): aladin WD repeat nucleoporin
- [AASS](#): amino adipate-semialdehyde synthase
- [ABAT](#): 4-aminobutyrate aminotransferase
- [ABCA1](#): ATP binding cassette subfamily A member 1
- [ABCA3](#): ATP binding cassette subfamily A member 3

## Learn More about Genes

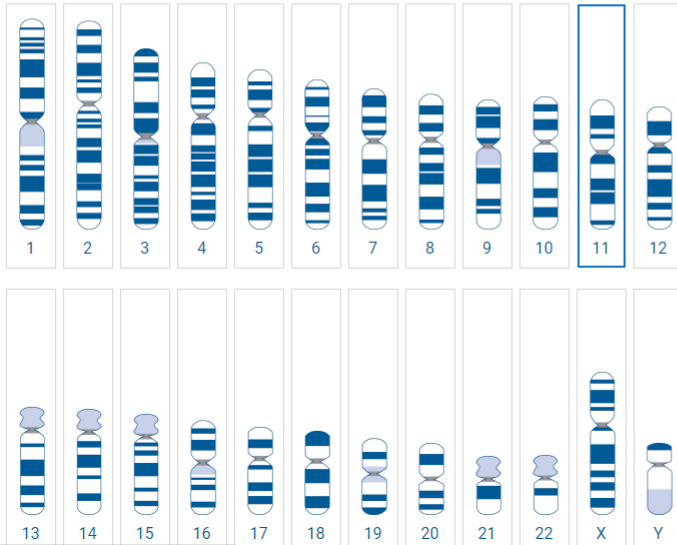
- [What is DNA?](#)
- [What is a gene?](#)
- [How do genes direct the production of proteins?](#)
- [How can gene mutations affect health and development?](#)



## Chromosomes & mtDNA

Read about each of the human chromosomes and mitochondrial DNA (mtDNA) and the health implications of genetic changes.

### Information about specific chromosomes



### Learn More about Chromosomes & mtDNA

What is a chromosome?

How many chromosomes do people have?

Can changes in the number of chromosomes affect health and development?

Can changes in mitochondrial DNA affect health and development?



## Resources

Links to reliable genetics resources on the web.

[Open All](#)[Close All](#)[▶ Support and Advocacy](#)[▶ Financial Assistance](#)[▶ General Genetics](#)[▶ Genetic Testing](#)[▶ Disease Registries](#)[▶ Classroom Resources](#)[▶ Clinical/Professional Resources](#)[▶ Genetics Research](#)[▶ Research Participation](#)[▶ Bioinformatics Databases](#)[▶ Genetics News](#)[▶ Policy and Ethics](#)[▶ Glossaries and Medical Terms](#)[▶ Finding and Understanding Medical Journal Articles](#)

[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.

[Printable PDF \(6MB\)](#)[Open All](#)[Close All](#)[▶ Cells and DNA](#)[▶ Mutations and Health](#)[▶ How Genes Work](#)[▶ Gene Families](#)[▶ Inheriting Genetic Conditions](#)[▶ Genetics and Human Traits](#)[▶ Genetic Consultation](#)[▶ Genetic Testing](#)[▶ Direct-to-Consumer Genetic Testing](#)[▶ Newborn Screening](#)

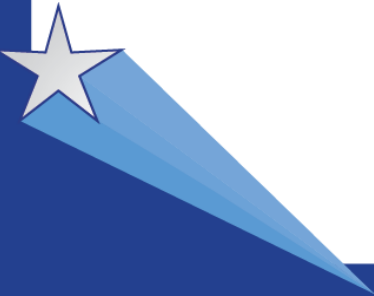


Library Patron: My daughter has lupus. Where can I find age appropriate information for her?





[www.kidshealth.org](http://www.kidshealth.org)





from Nemours



for Parents ▾

for Kids ▾

for Teens ▾

for Educators



## Kids site >

Sitio para niños >



All about how the body works, homework help, and more – just for kids.



from Nemours



for Parents ^

for Kids v

for Teens v

for Educators



**Parents site >**

Sitio para padres >



General Health

Growth & Development

Infections

Diseases & Conditions

Pregnancy & Baby

Nutrition & Fitness

Emotions & Behavior

School & Family Life

First Aid & Safety

Doctors & Hospitals

Videos

Recipes





## Información para padres



**El embarazo y los recién nacidos**

Más información >



**Preguntas y respuestas**



**Médicos y hospitales**



**Escuela y vida familiar**



**Emociones y conducta**





(viewing results 1 to 10)

[next ▶](#)

**Lupus** for Teens

Lupus is a disease that affects the immune system. Learn how lupus is treated, signs and symptoms, how to support a friend who has it, and more.

**Living With Lupus** for Parents

Lupus is known as an autoimmune disease in which a person's immune system mistakenly works against the body's own tissues.

**Life With Lupus** for Kids

Some people have an autoimmune disorder called lupus. Find out more in this article for kids.

**Lupus Special Needs Factsheet** for Educators



KidsHealth / For Parents / Living With Lupus



Reviewed by: [AnneMarie C. Brescia, MD](#)

Listen | AAA |

Lupus is an autoimmune disease that causes the immune system to mistakenly work against the body's own tissues. It can be hard to diagnose because it can affect almost any organ in the body, and its symptoms — including joint pain, fatigue, muscle pain, rash, mouth ulcers, and hair loss — vary widely from patient to patient. That is one of the greatest challenges of treating the disease for both doctors and their patients.

**en español**  
[Vivir con lupus](#)

## About Lupus

A healthy immune system produces proteins called

### MORE ON THIS TOPIC FOR:

Parents

Kids

Teens

[Chronic Fatigue Syndrome](#)

[Bones, Muscles, and Joints](#)

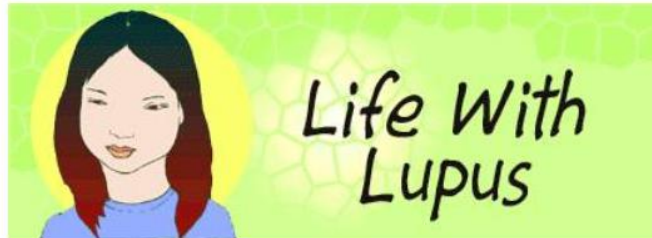
[Immune System](#)

[Juvenile Idiopathic Arthritis](#)

[Lyme Disease](#)



KidsHealth / For Kids / Life With Lupus



Reviewed by: [AnneMarie C. Brescia, MD](#)

Listen | [AA](#) |

en español

Una vida con lupus

Your body has its own system for fighting off sickness called the [immune system](#), but sometimes it doesn't work correctly. When this happens, a person may have an **autoimmune** (say: aw-toe-ih-MYOON) disease. **Lupus** (say: LOO-pus) is one of those diseases.

A healthy immune system is like an army that can protect you against germs and illness. It makes **antibodies** (say: AN-tih-bah-deez), which are special chemicals that fight off infections. But with a disease like lupus, the army gets confused and begins attacking the healthy cells in your body.

MORE ON THIS TOPIC FOR:

Kids

- Guillain-Barré Syndrome
- Movie: Immune System
- What Are Glands?
- Your Immune System
- Arthritis

View more

PARTNER MESSAGE

GO

KidsHealth from Nemours





KidsHealth / For Teens / Lupus



Reviewed by: [AnneMarie C. Brescia, MD](#)

Listen | [AAA](#) |

Chantelle was having a rough morning. Her hands were so stiff that she could barely dial the combination on her locker. Then she couldn't move her fingers well enough to play her clarinet. It seemed that ever since marching band practice had started in the early summer, her hands and feet felt sore in the mornings. She was also tired all the time, and no matter how much she rested, she still felt sleepy and achy all over.

Chantelle told her doctor about her achy hands and feet and how she felt tired all the time. The doctor sent her for blood tests. A few days later, the doctor called and told Chantelle's

en español

[El lupus](#)

MORE ON THIS TOPIC FOR:

Teens

[Chronic Fatigue Syndrome](#)

[Guillain-Barré Syndrome](#)

[Immune System](#)

[Dealing With a Health Condition](#)

[How Much Sleep Do I Need?](#)

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from Nemours

for Parents ▾

for Kids ▲

for Teens ▾

for Educators



**Kids site** ▶

Sitio para niños ▶

How the Body Works

Puberty & Growing Up

Staying Healthy

Staying Safe

Recipes & Cooking

Health Problems

Illnesses & Injuries

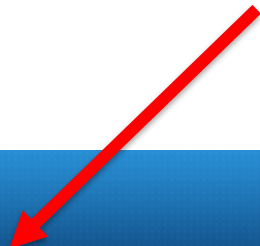
Relax & Unwind

People, Places & Things That Help

Feelings

Expert Answers Q&A

Movies & More





KidsHealth / For Kids / Asthma



Reviewed by: [Bonnie B. Hudak, MD](#)

Listen | AAA |

### What Is Asthma?

[Asthma](#) is a health problem that makes it hard to breathe. This happens because airways in the [lungs](#) swell up, fill with mucus, and get smaller. Some people say having asthma feels like breathing through a straw.

If you have asthma, you're not alone. Lots of kids have it

en español  
El asma

**MORE ON THIS TOPIC FOR:**

Kids

- Asthma Center
- Asthma: Alexis' Story (Video)
- Dealing With Asthma Triggers
- Handling an Asthma Flare-Up
- How Do Asthma Medicines Work?

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**Teens site** >

Sitio para adolescentes >

Body

Mind

Sexual Health

Food & Fitness

Diseases & Conditions

Infections

Drugs & Alcohol

School & Jobs

Sports

Expert Answers (Q&A)

Staying Safe

Videos





## Sexual Health

Learn the facts about sexual health with articles about puberty, menstruation, infections, and just about everything else you wanted to know, for guys and girls.

### Your Changing Body ^

[A Guy's Guide to Body Image](#)

[Adolescent Medicine Specialists](#)

[Delayed Puberty](#)

[Everything You Wanted to Know About Puberty](#)

[Female Reproductive System](#)

[Gynecomastia](#)

[Help! Is This My Body?](#)

[Male Reproductive System](#)



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**Teens site** >

Sitio para adolescentes >

Body

Mind

Sexual Health

Food & Fitness

Diseases & Conditions

Infections

Drugs & Alcohol

School & Jobs

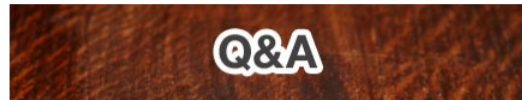
Sports

Expert Answers (Q&A)

Staying Safe

Videos





Got a question? What do the experts have to say? Look here for answers to many of the questions teens ask us.

### Girl Stuff



Can Bras Affect Breast Growth?

Can I Get Sick From Using a Friend's Lip Pencil Sharpener?

Can I Make My Breasts Larger?

Can I Work Out Without Breast Pain?

Can Masturbation Affect Periods?

Do I Have to Get All My HPV Vaccine Shots?

Do I Need a Pelvic Exam if I Had the HPV Vaccine?

Does My Mom Have to Be in the Room During My Gyn Exam?

Does Touching a Girl's Breasts Make Them Grow?

How Do I Get Rid of Hair on My Upper Lip?

I've Never Had My Period, So What's This Discharge?

Is It Normal to Masturbate?



from Nemours

for Parents ▾

for Kids ▾

for Teens ▾

for Educators



## Kids site >

Sitio para niños >



All about how the body works, homework help, and more – just for kids.





## Categories

Child Care & Preschool Resources ▶

Teacher's Guides:  
*K to Grade 2* ▶

Teacher's Guides:  
*Grades 3 to 5* ▶

Teacher's Guides:  
*Grades 6 to 8* ▶

Teacher's Guides:  
*Grades 9 to 12* ▶

Welcome

Sesame Street

How the Body Works

Homework

Special Needs



As a child care provider, you play an important role in children's lives, especially when it comes to food and fitness. To make things easier on you, KidsHealth and Sesame Workshop present the *Healthy Habits for Life* Child Care Resource Kit.

These hands-on activities use Sesame Street characters to help you show your students how to eat right and be active.

Read more ▶



**Nemours Reading BrightStart!**

Reading Readiness

Nemours Reading BrightStart! has the tools and training to promote reading success.

Learn How ▶



**Free Newsletter**

Sign up to receive the latest Teacher's Guides.

Sign Up ▶

Library Patron: I'm embarrassed to ask this but I need some information about healthy sexuality





<https://goaskalice.columbia.edu/>



HEALTH ANSWERS ^

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FIND HELP v

ABOUT ALICE! v

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Recent Q&As

General Health

Sexual & Reproductive Health

Alcohol & Other Drugs

Nutrition & Physical Activity

Themes

Emotional Health

Relationships

Fact Sheets



New Q&As

**Couldn't find an answer** to your health issue in the Q&A Library? We're always happy to hear from you, so



HEALTH ANSWERS ▾

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Q&As

Sexual & Reproductive Health

## Sexual & Reproductive Health

### CATEGORY MENU

- ⊞ Alcohol & Other Drugs
- ⊞ Emotional Health
- ⊞ General Health
- ⊞ Nutrition & Physical Activity

- [What causes menstrual cramps?](#)
- [Where is the clitoris?](#)
- [Fertility awareness: The symptothermal method](#)
- [Can a man tell if a woman orgasms?](#)
- [Parental consent for abortion?](#)
- [The birth control pill and smoking](#)
- [I took two birth control pills in a day — What now?](#)
- [Birth control pills cause brain aneurysms?](#)

**Couldn't find an answer** to your health issue in the Q&A Library? We're always happy to hear from you, so please send us your question.

# GO ASK ALICE!

HEALTH ANSWERS ▾

QUIZZES ▾

FIND HELP ▾

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## New Q&As

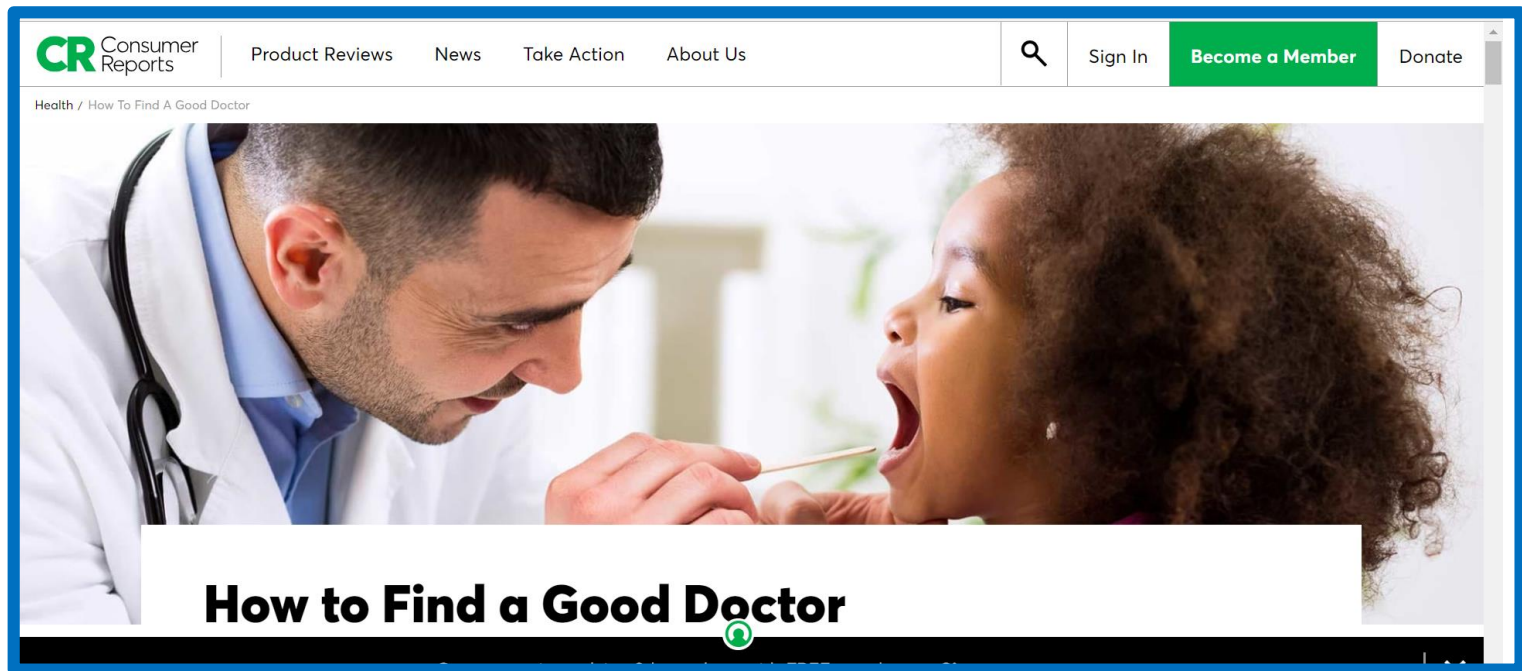
- Jock itch treatments
- Missing the kissing
- What's the 411 on Four Loko?
- Where is the clitoris?
- Worried about bees

**Couldn't find an answer** to your health issue in the Q&A Library? We're always happy to hear from you, so please send us your question.

**ASK YOUR QUESTION**

[More Q&As](#)

# Library Patron: Will you help me find the best doctor for ....?



The image is a screenshot of a webpage from Consumer Reports. The top navigation bar includes the logo 'CR Consumer Reports' on the left, followed by links for 'Product Reviews', 'News', 'Take Action', and 'About Us'. On the right side of the navigation bar, there is a search icon, a 'Sign In' link, a prominent green 'Become a Member' button, and a 'Donate' link. Below the navigation bar, the breadcrumb text reads 'Health / How To Find A Good Doctor'. The main content area features a large photograph of a male doctor in a white lab coat with a stethoscope around his neck, leaning forward to examine a young child's mouth with a wooden tongue depressor. The child has dark, curly hair and is looking up at the doctor. Below the photograph, the article title 'How to Find a Good Doctor' is displayed in a bold, black font. A small green circular icon with a white question mark is positioned at the end of the title. The entire screenshot is framed by a blue border.





### Visitor Services

- Café at Memorial »
- Gift Shop »
- Buy A Gift »
- Send Cheer Card »
- Visiting Hours & Policy »



### Your Hospital Bill

- Understanding And Paying Your Hospital Bill »
- Insurance Exchange Healthplanfinder »
- Financial Assistance Program »



### Patient Rights

- Patient Rights & Responsibilities (English) »
- Patient Rights & Responsibilities (Spanish) »
- HIPAA/Privacy Practices »
- Aviso De Practicas De Privacidad »



### Policies

- Admission »
- Authorization For Patient Treatment »
- Financial Status »
- Nondiscrimination »
- Physician Order for Life

In November 2017, the Commission on Cancer, a quality program of the American College of Surgeons, granted Three-Year Accreditation with Commendation to the cancer program at Virginia Mason Memorial.

VMM is one of only two cancer care programs in the state to achieve this status, receiving 5 out of 7 commendations.

[Read more »](#)

**Find a Physician**

Search by location or specialty

[Get started >>](#)





## Find a Provider

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**Odhatt Cojocar, MD**

**Internal Medicine**

**Board-certified:**

Am Bd Int Med (Int Med)

**Office:**

4003 Creekside Loop Yakima

Yakima, WA 98908

Phone: [\(509\) 248-3263](tel:(509)248-3263)

[Map to this address](#)

[Directions to this address](#)

**Website:**

<http://cornerstoneyakima.com/about-us-our-providers.asp#cojocar>

**Organization:**

Memorial Cornerstone Medicine

**Medical school:**

Carol Davila University of Medicine & Pharm. 1997

**Residency:**

Huron Hospital - Cleveland Clinic Health System 2002



[Providers main](#)

[Return to search results](#)

<https://cornerstoneyakima.com/our-providers.asp>

**Odhett Cojocaru, MD**



**1. What inspired you to choose medicine as a career?**

There is nothing in particular that "inspired" me to choose medicine. I have always wanted to be a doctor and this is the only thing I ever wanted to do. I suppose it was my nature and my love for people that guided me towards this career.

**2. Do you have a philosophy or approach to working with patients?**

My philosophy is that an educated patient is the best patient. This is why I will continue to empower my patients by educating them about their health and illnesses while always respecting their wishes and goals about medical care.

**3. What do you appreciate most about the doctors and staff you work with?**

In Yakima we have a wonderful medical community and I always felt that I am a member of a real team.

**4. Tell me a little known fact about you or talk about what you like to do outside of work.**

Not many people know that my first name actually contains a typo. It should have been spelled "Odette".

**5. What do you like about Yakima?**

One of the most pleasant discoveries I made coming to Yakima was the bounty of cherries, peaches, apples and all the other goodies I get to enjoy every year.

<https://fortress.wa.gov/doh/providercredentialsearch/>

**Washington State Department of Health**

# Provider Credential Search

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Search

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Access to high volumes of Provider Credential Search data is available at our [open data portal](#). It gives users a variety of searching, filtering, and data exporting options. We implemented this system to better serve our high-volume customers.

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Select the credential number of the record you wish to view.

Credentials Found (1)

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<a href="#">MD00045886</a>	Cojocar	Odnett	M	Physician And Surgeon License	ACTIVE	1973	03/09/2019	No

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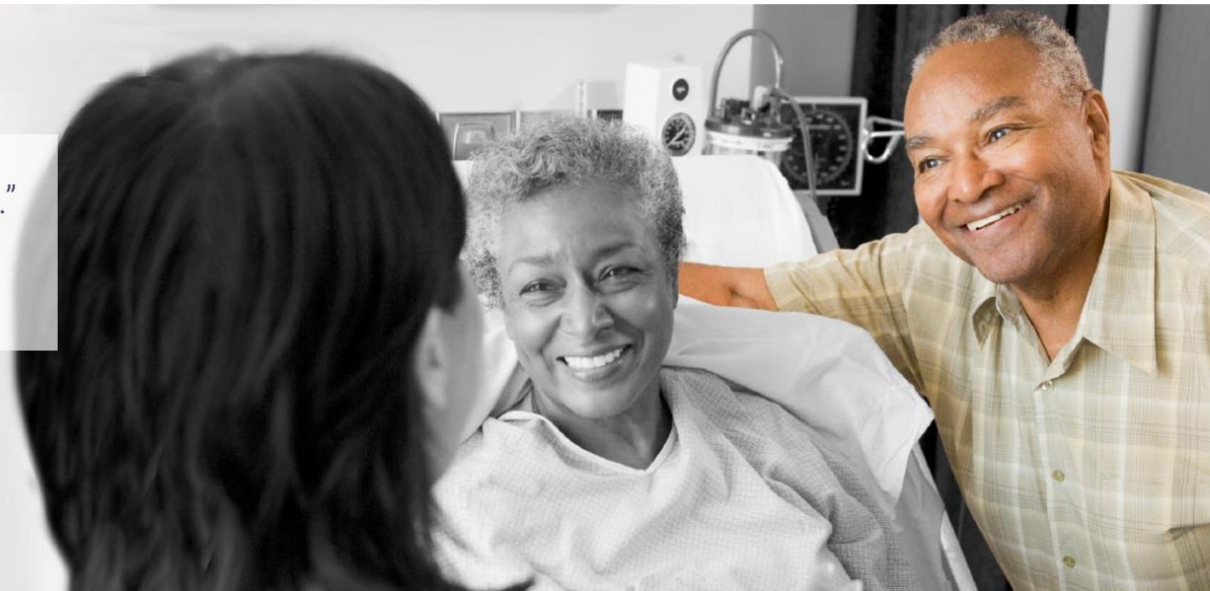
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## General Information


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Name: Odhett M Cojocar

Education: MD

Last Reported Location: Yakima, WA

Your doctor is currently certified by:



**American Board of Internal Medicine**  
Internal Medicine - Specialty

**Participating in MOC<sup>1</sup>**  
Yes

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<https://docinfo.org/>

The screenshot shows the homepage of docinfo.org. At the top left is the logo 'docinfo' in blue and orange, followed by 'Powered by fsmb FEDERATION OF STATE MEDICAL BOARDS'. Below the logo is a search section titled 'Physician Information Made Easy' with three questions: 'Where is my physician licensed?', 'Where did my physician go to medical school?', and 'Has my physician been disciplined by a licensing board?'. To the right of these questions are a text input field for 'Doctor name' and a dropdown menu for 'All States'. A green button with a magnifying glass icon and the text 'Start Search' is positioned below the input fields. Below the search section is a large image of a female doctor in a blue scrubs talking to a young girl. At the bottom of the page, there are two columns of text. The left column is titled 'What is a State Medical Board?' and contains the text 'State Medical Boards (SMBs) serve the public by regulating physicians.' with a green 'Learn More...' button below it. The right column is titled 'What is FSMB?' and contains the text 'FSMB supports State Medical Boards in their mission of public protection.' with a green 'Learn More...' button below it. At the very bottom, a dark blue footer contains the copyright notice: 'Copyright ©2001-2018 by the Federation of State Medical Boards of the United States Inc. | docinfo@fsmb.org | Terms of Use'.

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Doctor name

All States

Start Search

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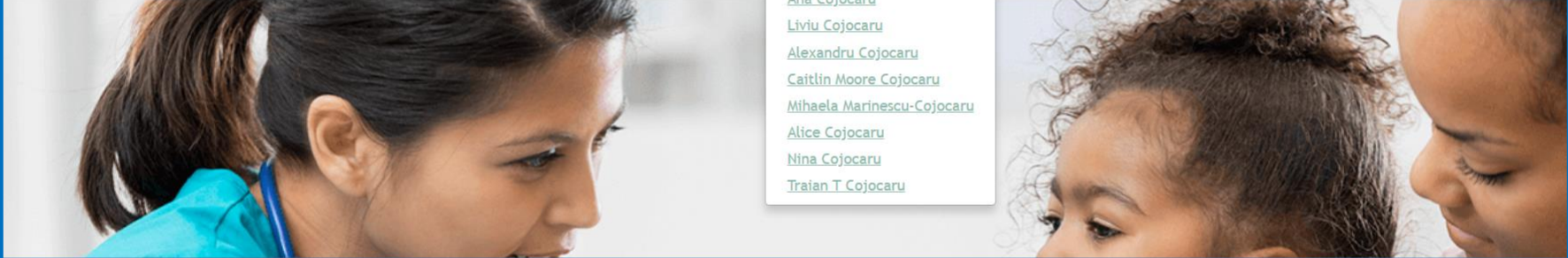
Where did my physician go to medical school?

Has my physician been disciplined by a licensing board?



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- [Maria Cojocaru](#)
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- [Caitlin Moore Cojocaru](#)
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Odhett Maria Cojocaru D, MD

Female

## Certifications ⓘ

Internal Medicine \*

## Education

Universitatea De Medicina Si Farmacie Carol Davila  
Year of Graduation: 1997

## Active Licenses

Washington

## Actions

No actions found

For credentialing entities needing to meet the standards of The Joint Commission (TJC), National Committee for Quality Assurance (NCQA), the Healthcare Facilities Accreditation Program (HFAP) or the Utilization Review



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A field with an asterisk (\*) is required.

**\* Location**  
Example: 45802 or Lima, OH or Ohio

  
**Hospital name (optional)**



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**Hospital name (optional)**

Search





Choose up to 3 hospitals to compare. So far you have none selected.

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Viewing 1 - 20 of 21 results

<< < 1 2 > >>

Hospital Information	Overall rating	Distance	Emergency Services	Hospital Type
<b>YAKIMA REGIONAL MEDICAL AND CARDIAC CENTER</b> 110 SOUTH NINTH AVE YAKIMA, WA 98902 (509) 575-5102 	☆☆☆●●	1.0 Miles	Yes	Acute Care Hospitals
<p><a href="#">Add to Compare</a></p> <p><a href="#">Add to My Favorites</a></p>				
<b>YAKIMA VALLEY MEMORIAL HOSPITAL</b> 2811 TIETON DRIVE YAKIMA, WA 98902 (509) 575-8000 	☆☆☆●●	2.6 Miles	Yes	Acute Care Hospitals
<p><a href="#">Add to Compare</a></p> <p><a href="#">Add to My Favorites</a></p>				
<b>TOPPENISH COMMUNITY HOSPITAL</b> 502 W FOURTH AVE TOPPENISH, WA 98948 (509) 865-1520	☆☆☆☆●	23.0 Miles	Yes	Acute Care Hospitals

### Modify your search

#### Location

ZIP code or City, State

YAKIMA, WA

Within 100 Miles

State

Select a State

County (Optional)

Select a County

#### Hospital name

Full or partial name

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#### Overall rating [Learn more](#)

☆☆☆☆☆ (1)

☆☆☆☆● (4)

☆☆☆●● (11)
















☆☆☆●●● (0)

☆●●●● (0)

#### Hospital type

Acute care - hospitals (9)

Acute care - Veterans Administration (0)

	YAKIMA VALLEY MEMORIAL HOSPITAL 2811 TIETON DRIVE YAKIMA, WA 98902 (509) 575-8000 	TOPPENISH COMMUNITY HOSPITAL 502 W FOURTH AVE TOPPENISH, WA 98948 (509) 865-1520 	KITTITAS VALLEY COMMUNITY HOSPITAL 603 SOUTH CHESTNUT ELLENSBURG, WA 98926 (509) 962-9841 	WASHINGTON AVERAGE	NATIONAL AVERAGE
	<p><b>Overall rating</b>       <a href="#">Learn more</a></p> <p><b>Distance</b> :             2.6 miles   <a href="#">Add to My Favorites</a>   <a href="#">Maps and directions</a></p>	<p><b>Overall rating</b>       <a href="#">Learn more</a></p> <p><b>Distance</b> :             23.0 miles   <a href="#">Add to My Favorites</a>   <a href="#">Maps and directions</a></p>	<p><b>Overall rating</b>       <a href="#">Learn more</a></p> <p><b>Distance</b> :             33.4 miles   <a href="#">Add to My Favorites</a>   <a href="#">Maps and directions</a></p>		
<b>Patient survey summary star rating. More stars are better.</b> <a href="#">Learn more</a>					
<b>Patients who reported that their nurses "Always" communicated well</b>	74%	82%	82% <sup>11</sup>	79% <sup>20</sup>	80% <sup>20</sup>
<b>Patients who reported that their doctors "Always" communicated well</b>	77%	85%	80% <sup>11</sup>	81% <sup>20</sup>	82% <sup>20</sup>
<b>Patients who reported that they "Always" received help as soon as they wanted</b>	61%	74%	78% <sup>11</sup>	67% <sup>20</sup>	70% <sup>20</sup>

tml#contentTab2

<https://medlineplus.gov/talkingwithyourdoctor.htm>

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## Talking With Your Doctor

**On this page**

<b>Basics</b> <ul style="list-style-type: none"><li>Summary</li><li>Start Here</li><li>Treatments and Therapies</li></ul>	<b>Learn More</b> <ul style="list-style-type: none"><li>Related Issues</li></ul>	<b>See, Play and Learn</b> <ul style="list-style-type: none"><li>Health Check Tools</li><li>Videos and Tutorials</li></ul>
<b>Research</b> <ul style="list-style-type: none"><li>Clinical Trials</li><li>Journal Articles</li></ul>	<b>Resources</b> <ul style="list-style-type: none"><li>Reference Desk</li></ul>	<b>For You</b> <ul style="list-style-type: none"><li>Children</li><li>Teenagers</li><li>Seniors</li><li>Patient Handouts</li></ul>

### Summary

How well you and your doctor communicate with each other is one of the most important parts of getting good health care. Being prepared can help make the most of your visit. Here are some things you can bring:

- Lists of your concerns, any allergies and all the medicines, herbs, or vitamins you take
- A description of symptoms - when they started, what makes them better

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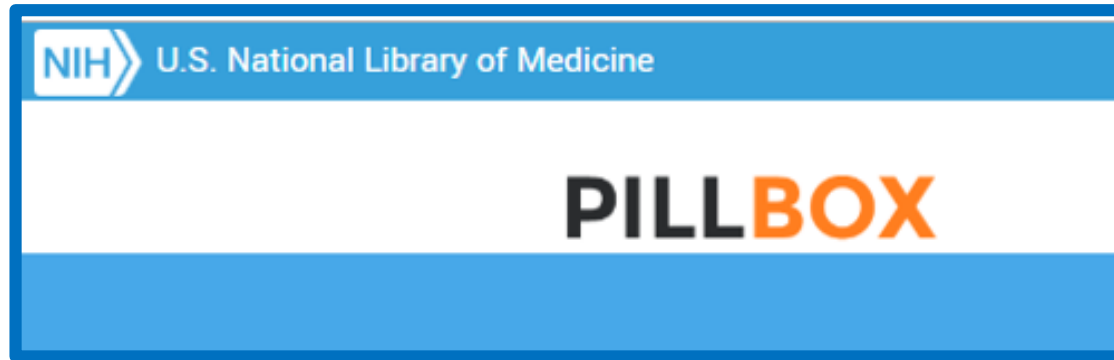
Enter email address



Library Patron: my mom is 86 and I found this pill on her kitchen counter.  
Can you help me find out what it is?



<https://pillbox.nlm.nih.gov/>



# Identify or search for a pill

Start by selecting characteristics of the pill you want to identify.

Name or Ingredient ▾	Imprint ▾	Shape ▾	Color ▾	Inactive Ingredient ▾
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[CLEAR ALL](#) [Advanced Search >](#)

**SEARCH**

gov/statistics.html



## Identify or search for a pill

Start by selecting characteristics of the pill you want to identify:

Name or Ingredient <input type="text" value=""/>	AMOX 500 GG 849 <input type="text"/>	<input type="text" value="Capsule"/>	<input type="text" value="Yellow"/>	Inactive Ingredient <input type="text" value=""/>
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[CLEAR ALL](#)

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**SEARCH**



AMOX:500;GG:849

Amoxicillin



AMOX:500;GG:849

PREVPAC



AMOX:500;GG:849

lansoprazole, amoxicillin and clarithromycin



AMOX:500;GG:849

Amoxicillin



AMOX:500;GG:849

Amoxicillin



AMOX500;GG849

Lansoprazole, Amoxicillin and Clarithromycin



AMOX500;GG849

Amoxicillin



IMPRINT **AMOX;500;GG;849**

NAME **Amoxicillin**

[DRUG LABEL](#) ↗

[DRUG INFO](#) ↗

INGREDIENTS  
**AMOXICILLIN 500 mg;**

LABEL AUTHOR  
**Sandoz Inc**

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

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**LABEL: AMOXICILLIN- amoxicillin capsule**  
**AMOXICILLIN- amoxicillin tablet, film coated**  
**AMOXICILLIN- amoxicillin powder, for susp...** [view full title](#)

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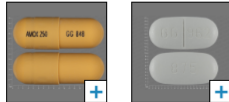


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**NDC Codes:**  
0781-2020-05

0781-5061-20



**NDC Code(s):** 0781-2020-01, 0781-2020-05, 0781-2020-31, 0781-2020-76, [view more](#)

**Packager:** Sandoz Inc

**Category:** HUMAN PRESCRIPTION DRUG LABEL

**DEA Schedule:** None

**Marketing Status:** Abbreviated New Drug Application

**DRUG LABEL INFORMATION**

Updated December 14, 2015

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

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use AMOXICILLIN Capsules, Tablets and



## AMOXICILLIN- amoxicillin powder, for susp... [view full title](#)

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**NDC Codes:**

0781-2020-05



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## DRUG LABEL INFORMATION

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### VIEW ALL SECTIONS

#### [+ HIGHLIGHTS OF PRESCRIBING INFORMATION](#)

These highlights do not include all the information needed to use AMOXICILLIN Capsules, Tablets and for Oral Suspension, USP safely and effectively. See full prescribing information for ...

#### [+ FULL PRESCRIBING INFORMATION: CONTENTS\\*](#)

Table of Contents

#### [+ 1 INDICATIONS AND USAGE](#)

1.1 Infections of the Ear, Nose, and Throat - Amoxicillin is indicated in the treatment of infections due to susceptible (ONLY  $\beta$ -lactamase–negative) isolates of ...

#### [+ 2 DOSAGE AND ADMINISTRATION](#)

2.1 Dosing for Adult and Pediatric Patients > 3 Months of Age - Treatment should be continued for a minimum of 48 to 72 hours beyond the time that the patient becomes ...

#### [+ 3 DOSAGE FORMS AND STRENGTHS](#)

Capsules: 250 mg, 500 mg. Each amoxicillin capsule, with yellow opaque cap and body, contains 250 mg or 500 mg amoxicillin as the trihydrate. The 250 mg capsule is imprinted AMOX 250 ...

#### [+ 4 CONTRAINDICATIONS](#) [\(WHAT IS THIS?\)](#)

Amoxicillin is contraindicated in patients who have experienced a serious hypersensitivity reaction

<p><b>RELATED RESOURCES</b></p> <p><a href="#">Medline Plus</a></p> <p><a href="#">Clinical Trials</a></p> <hr/> <p><b>MORE INFO FOR THIS DRUG</b></p> <p><a href="#">Get Label RSS Feed</a></p>	<p>Dosage and Administration, Gonorrhea (2.1) removed 9/2015</p> <p><b>INDICATIONS AND USAGE</b></p> <p>Amoxicillin is a penicillin-class antibacterial indicated for treatment of infections due to susceptible strains of designated microorganisms.</p> <ul style="list-style-type: none"> <li>Infections of the ear, nose, throat, genitourinary tract, skin and skin structure, and lower respiratory tract. (<a href="#">1.1 – 1.5</a>)</li> <li>In combination for treatment of <i>H. pylori</i> infection and duodenal ulcer disease. (<a href="#">1.5</a>)</li> </ul> <p>To reduce the development of drug-resistant bacteria and maintain the effectiveness of amoxicillin and other antibacterial drugs, amoxicillin should be used only to treat infections that are proven or strongly suspected to be caused by bacteria. (<a href="#">1.6</a>)</p> <p><b>DOSAGE AND ADMINISTRATION</b></p> <ul style="list-style-type: none"> <li>In adults, 750-1750 mg/day in divided doses every 8-12 hours. In Pediatric Patients &gt; 3 Months of Age, 20-45 mg/kg/day in divided doses every 8-12 hours. Refer to full prescribing information for specific dosing regimens. (<a href="#">2.1, 2.2, 2.3</a>)</li> <li>The upper dose for neonates and infants ≤ 3 months is 30 mg/kg/day divided every 12 hours. (<a href="#">2.2</a>)</li> <li>Dosing for <i>H. pylori</i> Infection: Triple therapy: 1 gram amoxicillin, 500 mg clarithromycin, and 30 mg lansoprazole, all given twice daily (every 12 hours) for 14 days. Dual therapy: 1 gram amoxicillin and 30 mg lansoprazole, each given three times daily (every 8 hours) for 14 days. (<a href="#">2.3</a>)</li> <li>Reduce the dose in patients with severe renal impairment (GFR &lt;30 mL/min). (<a href="#">2.4</a>)</li> </ul> <p><b>DOSAGE FORMS AND STRENGTHS</b></p> <ul style="list-style-type: none"> <li>Capsules: 250 mg, 500 mg (<a href="#">3</a>)</li> <li>Tablets: 500 mg, 875 mg (<a href="#">3</a>)</li> <li>For Oral Suspension: 125 mg/5 mL, 200 mg/5 mL, 250 mg/5 mL, 400 mg/5 mL (<a href="#">3</a>)</li> </ul> <p><b>CONTRAINDICATIONS</b></p> <ul style="list-style-type: none"> <li>History of a serious hypersensitivity reaction (e.g., anaphylaxis or Stevens-Johnson syndrome) to amoxicillin or to other beta-lactams (e.g., penicillins or cephalosporins) (<a href="#">4</a>)</li> </ul> <p><b>WARNINGS AND PRECAUTIONS</b></p> <ul style="list-style-type: none"> <li>Anaphylactic reactions: Serious and occasionally fatal anaphylactic reactions have been reported in patients on penicillin therapy. Serious anaphylactic reactions require immediate emergency treatment with supportive measures. (<a href="#">5.1</a>)</li> <li><i>Clostridium difficile</i>-associated diarrhea (ranging from mild diarrhea to fatal colitis): Evaluate if diarrhea occurs. (<a href="#">5.2</a>)</li> </ul>
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By Name  By Category

AMOXICILLIN

**2 results for Name/Synonym equals AMOXICILLIN** ⓘ

1. [Amoxicillin \[INN\]](#)
2. [Amoxicillin \[USAN:USP:INN:BAN:JAN\]](#)



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By Name  By Category



## Result

**Drug Name:** Amoxicillin [INN]

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[View Structure](#)

**Description:** A broad-spectrum semisynthetic antibiotic similar to AMPICILLIN except that its resistance to gastric acid permits higher serum levels with oral administration.

**Categories:** [Anti-Bacterial Agents](#)

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## 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 \(DailyMed\)](#)
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Home → [Drugs, Herbs and Supplements](#) → Amoxicillin

## Amoxicillin

pronounced as (a mox | sil' in)



[Why is this medication prescribed?](#)

[How should this medicine be used?](#)

[Other uses for this medicine](#)

[What special precautions should I follow?](#)

[What special dietary instructions should I follow?](#)

[What should I do if I forget a dose?](#)

[What side effects can this medication cause?](#)

[What should I know about storage and disposal of this medication?](#)

[In case of emergency/overdose](#)

[What other information should I know?](#)

[Brand names](#)

[Other names](#)

### Why is this medication prescribed?

Amoxicillin is used to treat certain infections caused by bacteria, such as pneumonia; bronchitis (infection of the airway tubes leading to the lungs); and infections of the ears, nose, throat, urinary tract, and skin. It is also used in combination with other medications to eliminate *H. pylori*, a bacteria that causes ulcers. Amoxicillin is in a class of medications called penicillin-like antibiotics. It works by stopping the growth of bacteria.

Antibiotics such as amoxicillin will not work for colds, flu, and other viral infections. Taking antibiotics when they are not needed increases your risk of getting an infection later that resists antibiotic treatment.

[Página Principal](#) → [Medicinas, hierbas y suplementos](#) → [Amoxicilina](#)

## Amoxicilina



¿Para cuáles condiciones o enfermedades se prescribe este medicamento?

¿Cómo se debe usar este medicamento?

¿Qué otro uso se le da a este medicamento?

¿Cuáles son las precauciones especiales que debo seguir?

¿Qué dieta especial debo seguir mientras tomo este medicamento?

¿Qué tengo que hacer si me olvido de tomar una dosis?

¿Cuáles son los efectos secundarios que podría provocar este medicamento?

¿Cómo debo almacenar o desechar este medicamento?

¿Qué debo hacer en caso de una sobredosis?

¿Qué otra información de importancia debería saber?

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**Otros nombres**

### ¿Para cuáles condiciones o enfermedades se prescribe este medicamento?

La amoxicilina se usa para tratar algunas infecciones provocadas por bacterias como la neumonía; la bronquitis (infección de las vías respiratorias que van a los pulmones); e infecciones de los oídos, nariz, garganta, del tracto urinario y la piel. También se usa en combinación con otros medicamentos para eliminar *el H. pylori*, unas bacterias que causan úlceras. La amoxicilina se encuentra en una clase de medicamentos llamados antibióticos parecidos a la penicilina. Su acción consiste en detener el crecimiento de las bacterias.

Los antibióticos, como la amoxicilina, no funcionan para combatir resfriados, influenza y otras infecciones virales. Tomar antibióticos cuando no es necesario aumenta el riesgo de contraer una infección más adelante que se resista al tratamiento con antibióticos.

Library Patron: My dad was given a prescription for a drug called Altace for his congestive heart failure. Where can I learn more about it?



<https://dailymed.nlm.nih.gov/>





ALL DRUGS

HUMAN DRUGS

ANIMAL DRUGS

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



MORE WAYS TO SEARCH:

ADVANCED SEARCH

BROWSE DRUG CLASSES

LABEL ARCHIVES

TABLET/CAPSULE ID TOOL

This website contains **105150** 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: December 19, 2017**

### Drug Listing Certification

The U.S. Food and Drug Administration is reminding the pharmaceutical industry of the December 31, 2017, deadline to update or certify their drug listings with FDA. This applies to drug listings that were not initially listed or updated during the current calendar year.

This is the first deadline of the annual certification requirement under Part 207 of Title 21 of the Code of Federal Regulations.

## 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 been created to assist industry professionals.



ALL DRUGS | HUMAN DRUGS | ANIMAL DRUGS

Altace

ALTACE



MORE WAYS TO SEARCH: [ADVANCED SEARCH](#) [BROWSE DRUG CLASSES](#) [LABEL ARCHIVES](#) [TABLET/CAPSULE ID TOOL](#)

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## 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 been created to assist industry professionals.

## LABEL: ALTACE- ramipril capsule

LABEL RSS SHARE

### VIEW PACKAGE PHOTOS



VIEW MORE

### SAFETY

Boxed Warnings

Report Adverse Events

FDA Safety Recalls

Presence in Breast Milk

### RELATED RESOURCES

Medline Plus

Clinical Trials

### MORE INFO FOR THIS DRUG

Get Label RSS Feed

**NDC Code(s):** 61570-110-01, 61570-111-01, 61570-112-01, 61570-120-01

**Packager:** Pfizer Laboratories Div Pfizer Inc

**Category:** HUMAN PRESCRIPTION DRUG LABEL

### DRUG LABEL INFORMATION

Updated February 15, 2018

If you are a healthcare professional or from the pharmaceutical industry please visit [this version](#).

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

OFFICIAL LABEL (PRINTER FRIENDLY) [Print](#)

VIEW ALL SECTIONS

#### BOXED WARNING (WHAT IS THIS?)

##### WARNING: FETAL TOXICITY

- When pregnancy is detected, discontinue ALTACE as soon as possible (5.6).
- Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus (5.6).

[CLOSE](#)

#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ALTACE safely and effectively. See full prescribing information for ALTACE. ALTACE - ® (ramipril) capsules, for oral use ...

#### FULL PRESCRIBING INFORMATION: CONTENTS\*

Table of Contents

2.1 Hypertension - The recommended initial dose for patients not receiving a diuretic is 2.5 mg once a day. Adjust dose according to blood pressure response. The ...

### + 3 DOSAGE FORMS AND STRENGTHS

ALTACE (ramipril) is supplied as hard gelatin capsules containing 1.25 mg, 2.5 mg, 5 mg, and 10 mg of ramipril.

### + 4 CONTRAINDICATIONS (WHAT IS THIS?)

ALTACE is contraindicated in patients who are hypersensitive to this product or any other ACE inhibitor (e.g., a patient who has experienced angioedema during therapy with any other ACE ...

### + 5 WARNINGS AND PRECAUTIONS

5.1 Anaphylactoid and Possibly Related Reactions - Presumably because drugs that act directly on the renin-angiotensin-aldosterone system (e.g., ACE inhibitors ...

### + 6 ADVERSE REACTIONS

6.1 Clinical Trials Experience - Because clinical trials are conducted under widely varying conditions, the adverse reaction rates observed in the clinical trials of ...

### + 7 DRUG INTERACTIONS

7.1 Diuretics - Patients on diuretics, especially those in whom diuretic therapy was recently instituted, may occasionally experience an excessive reduction of blood ...

### + 8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy - Use of drugs that act on the renin-angiotensin system during the second and third trimesters of pregnancy reduces fetal renal function and increases ...

### + 10 OVERDOSAGE

Single oral doses of ramipril in rats and mice of 10 g/kg–11 g/kg resulted in significant lethality. In dogs, oral doses as high as 1 g/kg induced only mild gastrointestinal distress ...

### + 11 DESCRIPTION

Ramipril is a 2-aza-bicyclo [3.3.0]-octane-3-carboxylic acid derivative. It is a white, crystalline substance soluble in polar organic solvents and buffered aqueous solutions. Ramipril ...

### + 12 CLINICAL PHARMACOLOGY

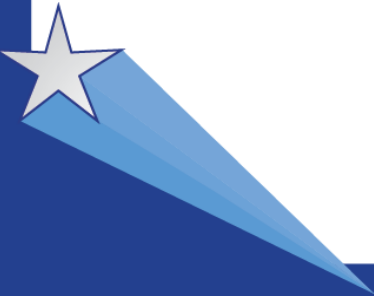
12.1 Mechanism of Action - Ramipril and ramiprilat inhibit ACE in human subjects and animals. Angiotensin converting enzyme is a peptidyl dipeptidase that catalyzes ...

### + 13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenicity, Mutagenicity, Impairment of Fertility, No evidence of a tumorigenic effect was



Library Patron: My dad heard about a natural therapy called Hawthorne for his heart failure. What is this stuff? Is it safe?



<https://nccih.nih.gov/>





NIH...Turning Discovery Into Health

Información en Español

- Health Info
- Research
- Grants & Funding
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- News & Events
- About NCCIH

## Health

### All Health Topics from A-Z

Research-based info from acupuncture to zinc.

### Complementary, Alternative, or Integrative Health

What do these terms mean?

### Be Informed

Learn how to make wise health decisions.

### Herbs at a Glance

Uses and side effects of herbs and botanicals.

### How To Find a Practitioner

Information on seeking treatment.

### Information for Health Care Providers

Evidence-based medicine, continuing education, clinical practice guidelines, and more.

### Know the Science

Tools to help you better understand complex scientific topics that relate to health research.



## Yoga for Pain

Resources for consumers and health professionals on what the science says about yoga for pain.



National Center for  
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## Información de Salud en Español

Share:



Esta página brinda enlaces a recursos del NCCIH en español sobre medicina complementaria e integral. Además, incluye enlaces a otros recursos en español relacionados con la salud.

Si usted utiliza medicina complementaria e integral, recuerde mencionárselo a su médico o al profesional de la salud que lo atienda. Algunos métodos de medicina complementaria e integral pueden afectar los tratamientos médicos convencionales. Hable con su médico para asegurarse de que el uso de medicina complementaria e integral con métodos de medicina convencionales está coordinado y es seguro.

### Información para el consumidor

- [Salud complementaria, alternativa o integral: ¿Qué significan estos términos?](#)  
Complementary, Alternative, or Integrative Health: What's In a Name?
- [Consideraciones en un enfoque complementario](#)

### Seguridad

- [Cómo encontrar y evaluar recursos en línea](#)  
Finding and Evaluating Online Resources
- [Cuidado con los "suplementos dietéticos" fraudulentos \(FDA, por sus siglas en inglés\)](#)  
Beware of Fraudulent 'Dietary Supplements'
- [Cuidado con los "suplementos dietéticos"](#)

### Otros recursos

- [Centro de Información del NCCIH](#)  
NCCIH Clearinghouse
- [Hierbas y suplementos, lista de la A a la Z \(MedlinePlus\)](#)  
Herbs and Supplements
- [Oficina de Suplementos Dietéticos \(ODS, por sus siglas en inglés\)](#)  
Office of Dietary Supplements Health Information
- [Vaya por Vida \(NIH, por sus siglas en inglés\)](#)  
Go4Life
- [Salud de los Hispanos \(MedlinePlus\)](#)  
Hispanic American Health
- [Cancer.gov en español \(NCI, por sus siglas en inglés\)](#)  
Cancer Topics
- [Agencias y departamentos del gobierno federal \(USA.gov\)](#)



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# Health Topics A-Z

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5

[5-HTP](#)

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[Age-related Macular Degeneration \(AMD\)](#)



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Tools to help you better understand complex



## Yoga for Pain

Resources for consumers and health professionals on what the science says about yoga for



National Center for  
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Everything Images Videos

hawthorn



Recommended by NCCIH

### Hawthorn

<https://nccih.nih.gov/health/hawthorn>

Is the herb **hawthorn** helpful for heart failure? Is it safe? Visit this page to find out what the science says.

### Hawthorn | NCCIH

[nccih.nih.gov/health/hawthorn](https://nccih.nih.gov/health/hawthorn)

**Hawthorn** is a flowering shrub or tree of the rose family. It is native to Europe and grows in temperate regions throughout the world. Historically, **ha** ...

### Herbs at a Glance | NCCIH

[nccih.nih.gov/health/herbsataglance.htm](https://nccih.nih.gov/health/herbsataglance.htm)

Herbs at a Glance is a series of brief fact sheets that provides basic information about specific herbs or





# Hawthorn

Share:



## On This Page

- Background
- How Much Do We Know?
- What Have We Learned?
- What Do We Know About Safety?
- Keep in Mind
- For More Information
- Key References



## Background

- Hawthorn is a flowering shrub or tree of the rose family. It is native to Europe and grows in temperate regions throughout the world.
- Historically, hawthorn has been used for heart disease as well as for digestive and kidney problems. It has also been used for anxiety.
- Extracts from the hawthorn leaf, flower, or berry may be sold as capsules, tablets, or liquids.

## How Much Do We Know?

- Hawthorn has been studied for heart failure in people. Heart failure is a condition in which the heart can't pump as much blood as it should.
- Not much is known about hawthorn for any other health conditions as there is little or no evidence.

## What Have We Learned?

- Although some older, short-term studies suggested that hawthorn may have benefits in patients with heart failure, two longer term studies completed in 2008 and 2009—including a 2-year trial involving almost 2,700 people in 13 European countries—did not confirm these benefits. In these studies, unlike some of the older ones, patients were given hawthorn in addition to the recommended conventional treatments for heart failure.

## What Do We Know About Safety?

- In most studies of hawthorn for heart failure, no serious safety problems have been reported. However, in one study, patients taking hawthorn were more likely than those taking a placebo (an inactive substance) to have their heart failure get worse soon after the study started. The reason for this is not clear, but one possibility is that hawthorn might have interacted with drugs the patients were taking.

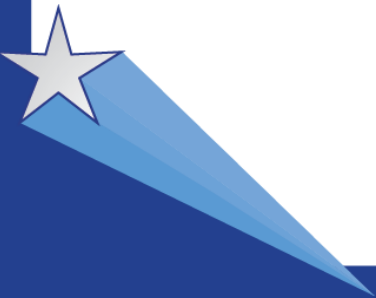


**Know the Science**  
How Medications  
and Supplements  
Can Interact

Library Patron: My sister is going to be treated with some kind of immunotherapy for her cancer called “Yescarta.” What is this?



<https://www.fda.gov/>



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- Vaccines, Blood & Biologics
- Animal & Veterinary
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**FDA launches new, comprehensive campaign to warn kids about the dangers of e-cigarettes**  
Targets nearly 10.7 million at-risk youth amid evidence of sharply rising use

1 2 3 4

Recalls & Alerts

- Recalls

Approvals & Clearances

- Enforcement Report

Report a Problem

- Warning Letters



**For Consumers**

Updates and information for staying safe and healthy



**For Patients**

Learn about other treatments, drug/device approvals, public meetings and more



**For Health Professionals**

Medical product safety information, adverse event/problem reporting and more



**For Scientists & Researchers**

NCTR, pediatrics, clinical trials, Critical Path Initiative, foods and veterinary medicine research, and more




**For Industry**

Home Food Drugs Medical Devices Radiation-Emitting Products Vaccines, Blood & Biologics Animal & Veterinary Cosmetics Tobacco Products

## Vaccines, Blood & Biologics

Home > Vaccines, Blood & Biologics



### How to get FDA Secure Email - Webinar

1 2 3 4

### Navigate the Vaccines, Blood & Biologics Section

<p><b>Allergenic</b> Allergen Extracts, Allergen Patch Tests, Antigen Skin Test</p> <p><b>Blood &amp; Blood Products</b> Blood, Blood Components, Blood Bank Devices, Blood Donor Screening Tests</p> <p><b>Cellular &amp; Gene Therapy Products</b> Gene-based Treatments, Cell-based Treatments, Cloning</p>	<p><b>Guidance, Compliance &amp; Regulatory Information (Biologics)</b> Guidance, Rules, SOPPS, Establishment Registration, Enforcement, Compliance</p> <p><b>Safety &amp; Availability (Biologics)</b> Recalls, Shortages, Biological Product Deviation Reporting, Adverse Event Reporting, HIV Home Test Kits</p> <p><b>Science &amp; Research (Biologics)</b> Research by FDA Staff to Evaluate and Enhance the Safety</p>
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### Spotlight

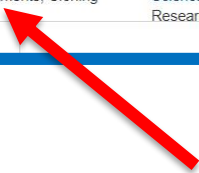
- What's New for Biologics
- INTERACT Meetings (Initial Targeted Engagement for Regulatory Advice on CBER products)
- Pregnancy and Lactation Labeling Final Rule
- Impact of Severe Weather Conditions on Biological Products

### Recalls & Alerts

- Recalls (Biologics)
- CBER-Regulated Products: Shortages and Discontinuations
- Report a Problem to the Center for Biologics Evaluation & Research

### Approvals & Clearances

- Biologics Products &



## Vaccines, Blood & Biologics

Home > Vaccines, Blood & Biologics > Cellular & Gene Therapy Products

### Cellular & Gene Therapy Products

Approved Products

## Cellular & Gene Therapy Products

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The Center for Biologics Evaluation and Research (CBER) regulates cellular therapy products, human gene therapy products, and certain devices related to cell and gene therapy. CBER uses both the Public Health Service Act and the Federal Food Drug and Cosmetic Act as enabling statutes for oversight.

Cellular therapy products include cellular immunotherapies, cancer vaccines, and other types of both autologous and allogeneic cells for certain therapeutic indications, including hematopoietic stem cells and adult and embryonic stem cells. Human gene therapy is the administration of genetic material to modify or manipulate the expression of a gene product or to alter the biological properties of living cells for therapeutic use. CBER has approved both cellular and gene therapy products – a list of these products may be found [here](#).

Cellular and gene therapy-related research and development in the United States continue to grow at a fast rate, with a number of products advancing in clinical development. In addition to regulatory oversight of clinical studies, CBER provides proactive scientific and regulatory advice to medical researchers and manufacturers in the area of novel product development.

### Spotlight

- [References for the Regulatory Process for the Office of Tissues and Advanced Therapies](#)
- [OTAT Learn: Educational Webinars Regarding OTAT and Products Regulated in the Office](#)

### Contact FDA

(800) 835-4709  
(240) 402-8010  
[ocod@fda.hhs.gov](mailto:ocod@fda.hhs.gov)

**Consumer Affairs Branch (CBER)**  
Division of Communication and Consumer Affairs  
Office of Communication, Outreach and Development  
Food and Drug Administration  
10903 New Hampshire Avenue  
Building 71 Room 3103  
Silver Spring, MD 20993-0002

### Related Information

- [What is Gene Therapy?](#)
- [Approved Cellular and Gene Therapy Products](#)
- [Cellular, Tissue, and Gene Therapies Advisory Committee](#)
- [Therapeutic Cloning and Genome Modification](#)
- [Compliance Actions \(Biologics\)](#)
- [Safety & Availability \(Biologics\)](#)
- [Advisory on Legal Restrictions on the Use of Mitochondrial Replacement Techniques to Introduce Donor Mitochondria into Reproductive Cells Intended for Transfer into a Human Recipient](#)
- [Information About Self-Administration of Gene Therapy](#)

## Approved Products

### Resources for You

- Consumers (Biologics)
- Healthcare Providers (Biologics)
- Industry (Biologics)
- About the Center for Biologics Evaluation and Research (CBER)
- What Is Gene Therapy? How Does It Work?

# Approved Cellular and Gene Therapy Products

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Below is a list of licensed products from the Office of Tissues and Advanced Therapies (OTAT).

### Approved Products

- ALLOCORD (HPC Cord Blood)  
SSM Cardinal Glennon Children's Medical Center
- LAVIV (Aztifel-T)  
Fibrocell Technologies
- MACI (Autologous Cultured Chondrocytes on a Porcine Collagen Membrane)  
Vericel Corp.
- CLEVECORD (HPC Cord Blood)  
Cleveland Cord Blood Center
- GINTUIT (Allogeneic Cultured Keratinocytes and Fibroblasts in Bovine Collagen)  
Organogenesis Incorporated
- HEMACORD (HPC, cord blood)  
New York Blood Center
- Ducord, HPC Cord Blood  
Duke University School of Medicine
- HPC, Cord Blood  
Clinimmune Labs, University of Colorado Cord Blood Bank
- HPC, Cord Blood - MD Anderson Cord Blood Bank  
MD Anderson Cord Blood Bank
- HPC, Cord Blood - LifeSouth  
LifeSouth Community Blood Centers, Inc.
- HPC, Cord Blood - Bloodworks  
Bloodworks
- IMLYGIC (talimogene laherparepvec)  
BioVex, Inc., a subsidiary of Amgen Inc.
- KYMRIAH (tisagenlecleucel)  
Novartis Pharmaceuticals Corporation
- LUXTURNA  
Spark Therapeutics, Inc
- PROVENGE (sipuleucel-T)  
Dendreon Corp.
- YESCARTA (axicabtagene ciloleucel)  
Kite Pharma, Incorporated

### Recalls & Alerts

- Recalls (Biologics)
- CBER-Regulated Products: Shortages and Discontinuations
- Report a Problem to the Center for Biologics Evaluation & Research

### Approvals & Clearances

- Biologics Products & Establishments

### Contact FDA

(800) 835-4709  
(240) 402-8010  
[ood@fda.hhs.gov](mailto:ood@fda.hhs.gov)

**Consumer Affairs Branch (CBER)**  
Division of Communication and Consumer Affairs  
Office of Communication, Outreach and Development  
Food and Drug Administration  
10903 New Hampshire Avenue  
Building 71 Room 3103  
Silver Spring, MD 20993-0002



## Approved Products

# YESCARTA (axicabtagene ciloleucel)

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## Resources for You

- [Licensed Biological Products with Supporting Documents](#)
- [Approved Cellular and Gene Therapy Products](#)

**STN:** BL 125643

**Proper Name:** axicabtagene ciloleucel

**Trade Name:** YESCARTA

**Manufacturer:** Kite Pharma, Incorporated

### Indication:

- A CD19-directed genetically modified autologous T cell immunotherapy indicated for the treatment of adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma (DLBCL) not otherwise specified, primary mediastinal large B-cell lymphoma, high grade B-cell lymphoma, and DLBCL arising from follicular lymphoma.

## Product Information

- [Package Insert - YESCARTA \(PDF - 210KB\)](#)
- [Demographic Subgroup Information – axicabtagene ciloleucel \(YESCARTA\) \(PDF - 804KB\)](#)  
Refer to Section 1.1 of the Clinical Review Memo for information about participation in the clinical trials and any analysis of demographic subgroup outcomes that is notable.

## Supporting Documents

- [October 18, 2017 Approval Letter - YESCARTA \(PDF - 82KB\)](#)
- [October 18, 2017 Summary Basis for Regulatory Action - YESCARTA \(PDF - 285KB\)](#)
- [Approval History, Letters, Reviews, and Related Documents - YESCARTA \(ZIP - 12.9MB\)](#)
- [Approved Risk Evaluation and Mitigation Strategies \(REMS\) – YESCARTA](#)

#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use YESCARTA safely and effectively. See full prescribing information for YESCARTA.

YESCARTA™ (axicabtagene ciloleucel) suspension for intravenous infusion  
Initial U.S. Approval: 2017

#### WARNING: CYTOKINE RELEASE SYNDROME AND NEUROLOGIC TOXICITIES

See full prescribing information for complete boxed warning.

- Cytokine Release Syndrome (CRS), including fatal or life-threatening reactions, occurred in patients receiving YESCARTA. Do not administer YESCARTA to patients with active infection or inflammatory disorders. Treat severe or life-threatening CRS with tocilizumab or tocilizumab and corticosteroids (2.2, 2.3, 5.1).
- Neurologic toxicities, including fatal or life-threatening reactions, occurred in patients receiving YESCARTA, including concurrently with CRS or after CRS resolution. Monitor for neurologic toxicities after treatment with YESCARTA. Provide supportive care and/or corticosteroids, as needed (2.2, 2.3, 5.2).
- YESCARTA is available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS) called the YESCARTA REMS (5.3).

YESCARTA is a CD19-directed genetically modified autologous T cell immunotherapy indicated for the treatment of adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma (DLBCL) not otherwise specified, primary mediastinal large B-cell lymphoma, high grade B-cell lymphoma, and DLBCL arising from follicular lymphoma.

**Limitation of Use:** YESCARTA is not indicated for the treatment of patients with primary central nervous system lymphoma (1).

#### DOSAGE AND ADMINISTRATION

For autologous use only. For intravenous use only.

- Do NOT use a leukodepleting filter.
- Administer a lymphodepleting regimen of cyclophosphamide and fludarabine before infusion of YESCARTA (2.2).
- Verify the patient's identity prior to infusion (2.2).
- Premedicate with acetaminophen and an H1-antihistamine (2.2).
- Confirm availability of tocilizumab prior to infusion (2.1, 5.1).
- Dosing of YESCARTA is based on the number of chimeric antigen receptor (CAR)-positive viable T cells (2.1).
- The target YESCARTA dose is  $2 \times 10^6$  CAR-positive viable T cells per kg body weight, with a maximum of  $2 \times 10^8$  CAR-positive viable T cells (2.1).
- Administer YESCARTA in a certified healthcare facility (2.2, 5.1, 5.2, 5.3).

#### FULL PRESCRIBING INFORMATION: CONTENTS\*

1	INDICATIONS AND USAGE
2	DOSAGE AND ADMINISTRATION
2.1	Dosage
2.2	Administration
2.3	Management of Severe Adverse Reactions
3	DOSAGE FORMS AND STRENGTHS
4	CONTRAINDICATIONS
5	WARNINGS AND PRECAUTIONS
5.1	Cytokine Release Syndrome (CRS)
5.2	Neurologic Toxicities
5.3	YESCARTA REMS to Mitigate CRS and Neurologic Toxicities
5.4	Hypersensitivity Reactions
5.5	Serious Infections
5.6	Prolonged Cytopenias
5.7	Hypogammaglobulinemia
5.8	Secondary Malignancies
5.9	Effects on Ability to Drive and Use Machines

#### DOSAGE FORMS AND STRENGTHS

- YESCARTA is available as a cell suspension for infusion.
- YESCARTA comprises a suspension of  $2 \times 10^6$  CAR-positive viable T cells per kg of body weight, with a maximum of  $2 \times 10^8$  CAR-positive viable T cells in approximately 68 mL (3).

#### CONTRAINDICATIONS

- None (4).

#### WARNINGS AND PRECAUTIONS

- Hypersensitivity Reactions: Monitor for hypersensitivity reactions during infusion (5.4).
- Serious Infections: Monitor patients for signs and symptoms of infection; treat appropriately (5.5).
- Prolonged Cytopenias: Patients may exhibit grade 3 or higher cytopenias for several weeks following YESCARTA infusion. Monitor complete blood counts (5.6).
- Hypogammaglobulinemia: Monitor and provide replacement therapy (5.7).
- Secondary Malignancies: In the event that a secondary malignancy occurs after treatment with YESCARTA, contact Kite at 1-844-454-KITE (5483) (5.8).
- Effects on Ability to Drive and Use Machines: Advise patients to refrain from driving and engaging in hazardous occupations or activities, such as operating heavy or potentially dangerous machinery, for at least 8 weeks after receiving YESCARTA (5.9).

#### ADVERSE REACTIONS

The most common non-laboratory adverse reactions (incidence greater than or equal to 20%) are: cytokine release syndrome, fever, hypotension, encephalopathy, tachycardia, fatigue, headache, decreased appetite, chills, diarrhea, febrile neutropenia, infections-pathogen unspecified, nausea, hypoxia, tremor, cough, vomiting, dizziness, constipation, and cardiac arrhythmias. (5.4, 6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Kite at 1-844-454-KITE (5483) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

11	DESCRIPTION
12	CLINICAL PHARMACOLOGY
12.1	Mechanism of Action
12.2	Pharmacodynamics
12.3	Pharmacokinetics
13	NONCLINICAL TOXICOLOGY
13.1	Carcinogenesis, Mutagenesis, Impairment of Fertility
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17	PATIENT COUNSELING INFORMATION

\* Sections or subsections omitted from the full prescribing information are not listed.



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Other drug names A-Z

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## Drugs: Y

Y-Cof DMX ® (as a combination product containing Brompheniramine, Dextromethorphan, Phenylephrine) see [Phenylephrine](#)

Y-Cof DMX ® (as a combination product containing Brompheniramine, Dextromethorphan, Phenylephrine) see [Dextromethorphan](#)

Y-Cof ® DMX (as a combination product containing Brompheniramine, Dextromethorphan, Phenylephrine) see [Brompheniramine](#)

Yasmin ® (as a combination product containing Drospirenone, Ethinyl Estradiol) see [Estrogen and Progestin \(Oral Contraceptives\)](#)

Yaz ® (as a combination product containing Drospirenone, Ethinyl Estradiol) see [Estrogen and Progestin \(Oral Contraceptives\)](#)

[Yellow Fever Vaccine](#)

Yervoy ® see [Ipilimumab Injection](#)

Yescarta ® see [Axicabtagene Injection](#)

YF-VAX ® see [Yellow Fever Vaccine](#)

Yondelis ® see [Trabectedin Injection](#)

Home → [Drugs, Herbs and Supplements](#) → [Axicabtagene Injection](#)

## Axicabtagene Injection

pronounced as (ax i cab" tay jeen)



[Why is this medication prescribed?](#)

[How should this medicine be used?](#)

[Other uses for this medicine](#)

[What special precautions should I follow?](#)

[What special dietary instructions should I follow?](#)

[What should I do if I forget a dose?](#)

[What side effects can this medication cause?](#)

[What other information should I know?](#)

[Brand names](#)

### IMPORTANT WARNING:

Axicabtagene injection may cause a serious or life-threatening reaction called cytokine release syndrome (CRS). A doctor or nurse will monitor you carefully during your infusion and for at least 4 weeks afterwards. Tell your doctor if you have an inflammatory disorder or if you have or think you may have any type of infection now. You will be given medications 60 minutes before your infusion to help prevent reactions to axicabtagene. If you experience any of the following symptoms during and after your infusion, tell your doctor immediately: fever, chills, fast or irregular heartbeat, shaking, diarrhea, tiredness, weakness, difficulty breathing, shortness of breath, confusion, nausea, vomiting, dizziness, or lightheadedness.

Axicabtagene injection may cause severe or life-threatening central nervous system reactions. These reactions can occur after treatment with axicabtagene. Tell your doctor if you have or have ever had seizures, a stroke, or memory loss. If you experience any of the following symptoms, tell your doctor immediately: headache, dizziness, difficulty falling asleep or staying asleep, restlessness, confusion, anxiety, uncontrollable shaking of a part of the body, loss of consciousness, agitation, seizures, loss of balance, difficulty understanding, or difficulty speaking.

Axicabtagene injection is only available through a special restricted distribution program. A Yescarta REMS program (Risk Evaluation and Mitigation Strategy) has been set up because of the risks of CRS and neurological toxicities. You can only receive the medication from a doctor and healthcare facility that participates in the program. Ask your doctor if you have any questions about this program.

Your doctor or pharmacist will give you the manufacturer's patient information sheet (Medication Guide) when you begin treatment with axicabtagene. Read the information carefully and ask your doctor or pharmacist if you have any questions. You can also visit the Food and Drug Administration (FDA) website (<http://www.fda.gov/Drugs/DrugSafety/ucm085729.htm>) or the manufacturer's website to obtain the Medication Guide.

### Why is this medication prescribed?

Axicabtagene injection is used to treat a certain type of non-Hodgkin's lymphoma (cancer that begins in white blood cells that normally fight infection) that has returned or is unresponsive to other treatment(s) in people who have already been treated with at least two other chemotherapy medications. Axicabtagene injection is in a class of medications called autologous cellular immunotherapy, a type of medication prepared using cells from the patient's own blood. It works by causing the body's immune system (a group of cells, tissues, and organs that protects the body from attack by bacteria, viruses, cancer cells, and other substances that cause disease) to fight the cancer cells.

## Inyección de axicabtageno



¿Para cuáles condiciones o enfermedades se prescribe este medicamento?

¿Cómo se debe usar este medicamento?

¿Qué otro uso se le da a este medicamento?

¿Cuáles son las precauciones especiales que debo seguir?

¿Qué dieta especial debo seguir mientras tomo este medicamento?

¿Qué tengo que hacer si me olvido de tomar una dosis?

¿Cuáles son los efectos secundarios que podría provocar este medicamento?

¿Qué otra información de importancia debería saber?

[Marcas comerciales](#)

### Advertencia:

La inyección de axicabtageno puede ocasionar una reacción grave o mortal denominada síndrome de liberación de citocinas (SLC). Un médico o enfermera lo supervisarán atentamente durante la infusión y al menos durante 4 semanas después de eso. Informe a su médico si tiene algún tipo de trastorno inflamatorio o si tiene o cree que puede tener algún tipo de infección en este momento. Se le darán medicamentos 60 minutos antes de su infusión para ayudar a prevenir las reacciones al axicabtageno. Si experimenta alguno de los síntomas siguientes durante y después de su infusión, llame a su médico de inmediato: fiebre, escalofríos, ritmo cardíaco irregular o rápido, temblores, diarrea, cansancio, debilidad, dificultad para respirar, falta de aliento, confusión, náuseas, vómitos, mareos o aturdimiento.

La inyección de axicabtageno puede ocasionar reacciones graves o mortales en el sistema nervioso central. Estas reacciones pueden ocurrir después del tratamiento con axicabtageno. Informe a su médico si tiene o alguna vez ha tenido convulsiones, un derrame cerebral o pérdida de la memoria. Si experimenta alguno de los síntomas siguientes, llame a su médico de inmediato: dolor de cabeza, mareos, dificultad para conciliar el sueño o mantenerse dormido, agitación, confusión, ansiedad, temblor incontrolable de una parte del cuerpo, pérdida del conocimiento, agitación, convulsiones, pérdida de equilibrio, dificultad para entender o problemas en el habla.

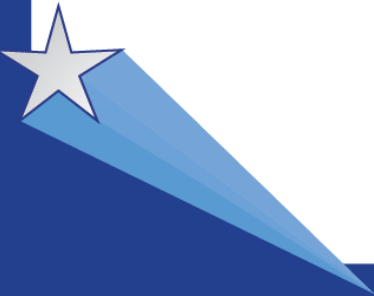
La inyección de axicabtageno únicamente está disponible a través del programa especial de distribución restringida. Se ha incluido un programa denominado Yescarta REMS (Estrategias de mitigación y evaluación de riesgos) debido a los riesgos de SLC y toxicidades neurológicas. Únicamente puede recibir el medicamento de un médico y del centro de atención médica que participa en el programa. Pregunte a su médico si tiene alguna duda sobre este programa.

Su médico o farmacéutico le dará la hoja de información del fabricante para el paciente (Guía del medicamento) cuando inicie su tratamiento con axicabtageno. Lea la información atentamente y si tiene alguna duda, pregúntele a su médico o farmacéutico. También puede visitar el sitio web de la Administración de Medicamentos y Alimentos (Food and Drug Administration, FDA) (<http://www.fda.gov/Drugs/DrugSafety/ucm085729.htm>) o el sitio web del fabricante para obtener la Guía del medicamento.

### ¿Para cuáles condiciones o enfermedades se prescribe este medicamento?

La inyección de axicabtageno se utiliza para tratar un tipo específico de linfoma que no es Hodgkin (cáncer que empieza en los glóbulos blancos que normalmente combaten las infecciones) que ha regresado o no responde a otros tratamientos en personas que ya han sido tratadas con, como mínimo, otros dos medicamentos de quimioterapia. La inyección de axicabtageno pertenece a una clase de medicamentos conocidos como

# Library Patron: Do you have any information on high blood sugar in Russian?

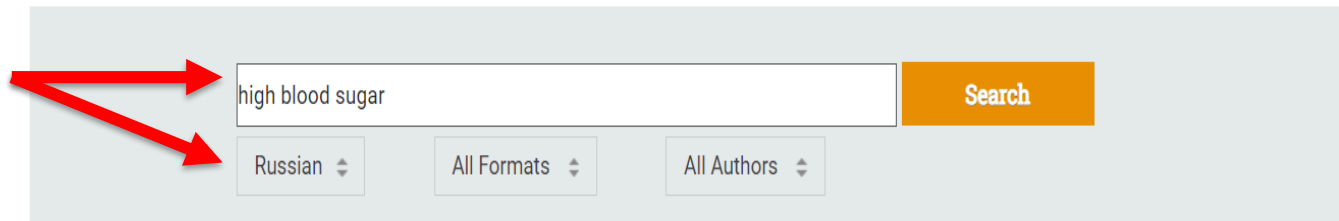


<https://healthreach.nlm.nih.gov/>



## Search for Patient Education Materials

Find multilingual, multicultural health information and patient education materials about health conditions and wellness topics. Learn about diseases, causes, symptoms, treatment, and prevention. Materials may be available as printable documents, audio, and video.



high blood sugar

Russian

### Featured Resources

#### 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 handouts, videos, and audio recordings in English and Spanish.

Opioids



1-7 of 7 results

Title	Format	Languages
<b>High Blood Sugar</b>	Document	English; Arabic; Chinese, Simplified (Mandarin dialect); Chinese, Traditional (Cantonese dialect); French; Hindi; Japanese; Korean; Nepali; Russian; Somali; Spanish; Ukrainian
<b>Diabetes During Pregnancy</b>	Document	English; Arabic; Chinese, Simplified (Mandarin dialect); Chinese, Traditional (Cantonese dialect); French; Japanese; Korean; Russian; Somali; Spanish; Ukrainian; Vietnamese
<b>Diabetes and Kidney Problems</b>	Document	English; Arabic; Nepali; Russian; Somali; Spanish
<b>Diabetes</b>	Document	English; Arabic; Chinese, Simplified (Mandarin dialect); Chinese, Traditional (Cantonese dialect); French; Hindi; Japanese; Korean; Nepali; Russian; Somali; Spanish; Ukrainian; Vietnamese
<b>Diabetes and Eye Problems</b>	Document	English; Arabic; Nepali; Russian; Somali; Spanish
<b>Diabetes and Wound Healing</b>	Document	English; Arabic; Nepali; Russian; Somali; Spanish
<b>Diabetes and Nerve Damage</b>	Document	English; Arabic; Nepali; Russian; Somali; Spanish

# High Blood Sugar

## Resource Properties

**Abstract:**

This three-page handout educates people about high blood sugar, also called hyperglycemia, which means having too much sugar, or glucose, in the blood. It identifies normal and high blood sugar readings, and explains that over time hyperglycemia can damage the eyes, kidneys, blood vessels, heart, nerves, and feet. It discusses diabetes and other causes of hyperglycemia, as well as reasons it can get worse. The document identifies warning signs of hyperglycemia, clarifying that it affects people differently and some do not have any symptoms. It recommends ways people can control their blood sugar levels, and outlines a diabetes treatment plan.

Unless otherwise stated, users may print or download this health information resource from [www.healthinfotranslations.org](http://www.healthinfotranslations.org) for personal, non-commercial use only. All images, logos, trademarks and all other applicable elements are copyright of their respective owners: the Ohio State University Wexner Medical Center, Mount Carmel Health System, OhioHealth, and Nationwide Children's Hospital.

**Author(s):** Health Information Translations

**Country of Origin:** United States

**Medical Review:** Reviewed

## Access Resource

Language	Document	Video	Audio
Arabic / English	Open <small>(PDF, 185.70 KB)</small>		
Chinese, Simplified / English	Open <small>(PDF, 220.61 KB)</small>		
Chinese, Traditional / English	Open <small>(PDF, 205.78 KB)</small>		
French / English	Open <small>(PDF, 143.78 KB)</small>		
Hindi / English	Open <small>(PDF, 90.12 KB)</small>		
Japanese / English	Open <small>(PDF, 175.52 KB)</small>		
Korean / English	Open <small>(PDF, 258.36 KB)</small>		
Nepali / English	Open <small>(PDF, 161.58 KB)</small>		
Russian / English	Open <small>(PDF, 148.47 KB)</small>		

# Повышенное содержание сахара в крови

## High Blood Sugar

High blood sugar means having too much sugar, also called glucose, in the blood. High blood sugar is also called hyperglycemia. The body's cells need blood sugar. A normal blood sugar level is 70 to 100. A blood sugar level above 140 is too high. You may not feel any signs of high blood sugar but damage may be happening to your body. Over time, high blood sugar can damage the eyes, kidneys, blood vessels, heart, nerves and feet.

### Causes

High blood sugar can happen with diabetes. When you have diabetes, your body does not make enough insulin or is not able to use the body's insulin as it should. The right amount of insulin is needed to let the sugar that is in your blood go into your cells. Without insulin, blood sugar will rise and cause high blood sugar, or hyperglycemia. High blood sugar can get worse because of:

- Stress
- Infection or illness
- Certain medicines such as steroids
- Pregnancy

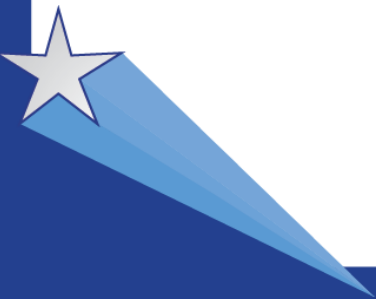
Повышенное содержание сахара в крови означает, что в крови содержится чрезмерное количество сахара или глюкозы. Повышенное содержание сахара в крови называется также гипергликемией. Клеткам организма нужен сахар в крови. Нормальный уровень сахара в крови – 70-100 единиц. Больше 140 единиц считается очень высоким показателем. Вы можете не чувствовать никаких признаков повышенного содержания сахара в крови, но в это время может происходить разрушение организма. Со временем повышенное содержание сахара может поразить глаза, почки, кровеносные сосуды, сердце, нервы и ноги.

### Причины

Повышенное содержание сахара в крови может возникнуть вследствие диабета, когда организм не вырабатывает достаточное количество инсулина или не может должным образом усвоить вырабатываемый инсулин. Без инсулина уровень сахара в крови повышается (состояние называемое гипергликемией). Ситуация с повышенным содержанием сахара в крови может осложниться вследствие:

- стресса;
- инфекции или болезни;
- употребления некоторых лекарств, таких как стероиды;
- беременности.

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- 24-Hour Urine Test
- A Healthy Pregnancy
- About Your Pain
- Active Hand Exercises
- Active Leg Range of Motion
- Active Range of Motion Exercises: Wrists, Elbows, Forearms and Shoulders
- Advance Directives
- AFP (Alpha-Fetoprotein) Test
- Allergies
- Alzheimer's Disease
- Amniocentesis
- Anemia
- Angina
- Angiogram
- Animal Bites and Scratches \*\*

### Helpful Links



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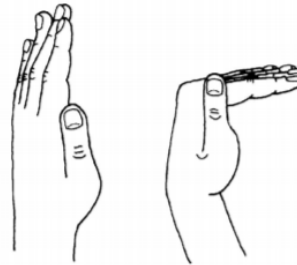
# 手の運動

## Active Hand Exercises

Repeat these exercises \_\_\_\_\_ times,  
\_\_\_\_\_ times a day.

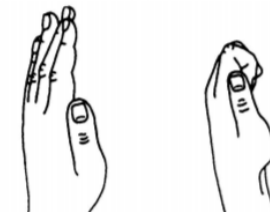
以下の運動を\_\_\_\_\_回繰返し、毎日\_\_\_\_\_回  
行います。

- With your wrists and your fingers straight, bend your fingers at the knuckles.



- 手首と指を真っ直ぐ伸ばし、指の付け根部分から指を曲げます。

- Keep your knuckles and wrist straight. Bend and straighten your fingers.



- 指の付け根と手首を真っ直ぐ伸ばして、指を曲げたり伸ばしたりします。



S\*P\*I\*R\*A\*L

SELECTED PATIENT INFORMATION RESOURCES IN ASIAN LANGUAGES







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SELECTED PATIENT INFORMATION RESOURCES IN ASIAN LANGUAGES

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**Thai** ภาษาไทย

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### [Translated Nurse-to-Patient Communication Handouts](#)

Source: EthnoMed/Harborview Medical Center - Seattle, WA

#### **A**

[AIDS/ HIV](#)

[Alcohol](#)

[Allergy](#)

## Alcohol

### Alcohol and Depression

Source: Royal College of Psychiatrists - United Kingdom

[Chinese 中文](#)

[English](#)

### Alcohol and drug problems happen in all kinds of families

Source: New South Wales Health Department - Australia

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[Vietnamese Tiếng Việt](#)

### Alcohol and Drug Treatment: How It Works, And How It Can Help You

Source: U.S. Substance Abuse and Mental Health Services Administration

[Chinese 中文](#)

[Cambodian Khmer](#)

[English](#)

## 參考資料

如欲閱讀原文參考資料及在英國之求助組織，請瀏覽以下網頁：

<http://www.rcpsych.ac.uk/mentalhealthinformation/mentalhealthproblem/s/alcoholanddrugs/alcoholdepression.aspx>

## 有用地址或電話

《譯者註：以下是香港資料，提供在港人士使用》

醫院管理局精神科電話諮詢服務：	2466 7350
社會福利署熱線：	2343 2255
香港心理衛生會健康諮詢服務：	2772 0047
衛生署中央健康教育熱線：	2833 0111
香港精神健康家屬協會： 九龍中央郵箱72368號（傳真：2760 4407）	

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翻譯者：青山醫院精神健康學院  
出版人：青山醫院精神健康學院  
地址：新界屯門青松觀路十五號  
電話：2456 7111  
傳真：2455 9330  
網址：[www.ha.org.hk/cph](http://www.ha.org.hk/cph)  
[www.imh.org.hk](http://www.imh.org.hk)



# 青山醫院精神健康教育 《關懷援助·垂手可得》

〈原文由英國皇家精神科學院撰寫印製，香港青山醫院獲該院特許進行中文翻譯〉

〈此單張乃中文譯本，旨在提供精神健康的資訊。原作是建基於英國的醫療健康服務情況，為保持原作者意見，譯者盡量原文照譯。因此，內文關於醫療健康服務的資料，因各地醫療制度不同，未必完全適用於香港。如有疑問，請與你的醫生商討，或聯絡本地之醫療健康服務部門。〉

## 酒精與抑鬱症

### 單張簡介

這單張是為以下人士而撰寫的：

- 任何常感到抑鬱並懷疑自己飲酒太多
- 任何人懷疑自己飲酒太多並正感到抑鬱
- 飲酒太多並抑鬱人士之朋友、家人或同事

這單張包括酒精與抑鬱的基本資料，如何幫助自己，如何尋求進一步協助，和在那裡尋找更多資料。

### 酒精與我們

在英國，每十個人便最少有九個飲酒，這是我們文化的一部份並且安然接受這情況。適量飲酒不會引致很多問題，但是在過往三十年，社會變得富裕而酒精也變得便宜，所以我們更年輕時便開始飲酒而且飲得更多。多過四分一男士及七分一女士飲超過醫學上建議的安全標準。根據英國衛生署的資料，大約八

<http://ethnomed.org/>



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## FEATURE: SEPTEMBER 2018

### IMPLICATIONS FOR HEALTH CARE AND SERVICE PROVIDERS FROM POSSIBLE IMMIGRATION LEGAL CHANGES

The [Protecting Immigrant Families \(PIF\) Campaign](#) and other organizations are organizing around the possibility of federal changes to public charge rules that would impact many immigrant families. Reports continue to circulate that many immigrants are turning down programs such as WIC and other nutrition programs out of fear that accessing this federal aid will make them ineligible for a green card if new rules are put into place.

#### Background

The change being considered would expand the categories of public benefits that could be held against an individual seeking legal status. These categories might include nutrition programs like

#### Welcome To EthnoMed

EthnoMed contains information about cultural beliefs, medical issues and related topics pertinent to the health care of immigrants to Seattle or the US, many of whom are refugees fleeing war-torn parts of the world.

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### RELATED WEBSITES

The following links to other websites are provided as a means of accessing information. EthnoMed does not claim to verify all information, including translations, found through links.

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[Asian Pacific Islander Cancer Education](#)

[Materials Tool](#)

[Breast, Cervical and Colon Health](#)

[Program - Seattle & King County](#)

## DIABETES PATIENT EDUCATION MATERIALS

keywords: [Diabetes](#)

Related content

[Diabetes Clinical Topics](#)

## ETHNIC FOODS AND BLOOD SUGAR: GUIDES FOR PATIENTS

### Cambodian Foods That Affect Blood Sugar: A Guide for Cambodian Patients

This presentation is intended to be used by clinicians during discussion with patients about carbohydrates and blood glucose. It is culturally tailored to reflect foods commonly consumed by Cambodian Americans. Authored by Julianne Williams. For more information about how it was developed, [click here](#), and select 'view documentation'. The narrated file may take a few moments to load. Scroll-over video for table of contents.

- [Narrated video presentation](#) (12 minutes)
- [PDF presentation](#) (59 slides)
- Note: If you have trouble viewing the video on EthnoMed, you can view it on [YouTube](#)



### How Foods Affect Blood Sugar: A Guide for Ethiopian and Eritrean Patients with Diabetes

This presentation is intended to be used by clinicians during discussion with patients about carbohydrates and blood glucose. It is culturally tailored to reflect foods commonly consumed by Ethiopian and Eritrean Americans and includes photos of foods, meal comparisons, portion sizes, and some information about managing diabetes during periods of fasting. Authored by Mei Yook Woo. For more information about how it was developed, [click here](#), and select 'view documentation'.







លោកអ្នកកុំពុងមើលការបង្ហាញពីម្ហូបអាហារនេះក៏ព្រោះតែគ្រូពេទ្យអ្នកប្រាប់ថាវាមានសារៈសំខាន់ចំពោះអ្នកដែលត្រូវរៀនពីម្ហូបអាហារផ្សេងព្រោះវានឹងធ្វើអោយប៉ះពាល់ដល់ឈាមផ្អែមរបស់អ្នក។ ការបង្ហាញអំពីម្ហូបអាហារនេះគឺជួយបង្រៀនអ្នកអោយស្គាល់ពីម្ហូបប្រភេទណាដែលមិនធ្វើអោយឈាមផ្អែមឡើងខ្លាំងចុះទាបឬមិនប៉ះពាល់ដល់អ្នកកើតរោគទឹកនោមផ្អែម។

You are watching this presentation because your medical provider has told you that it is important for you to learn about how different foods affect your blood sugar. This presentation is to help you learn about many foods that will raise, lower or have little effect on a person's blood sugar.

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## FEATURE: SEPTEMBER 2018

### IMPLICATIONS FOR HEALTH CARE AND SERVICE PROVIDERS FROM POSSIBLE IMMIGRATION LEGAL CHANGES

The [Protecting Immigrant Families \(PIF\) Campaign](#) and other organizations are organizing around the possibility of federal changes to public charge rules that would impact many immigrant families. Reports continue to circulate that many immigrants are turning down programs such as WIC and other nutrition programs out of fear that accessing this federal aid will make them ineligible for a green card if new rules are put into place.

#### Background

The change being considered would expand the categories of public benefits that could be held against an individual seeking legal status. These categories might include nutrition programs like

#### Welcome To EthnoMed

EthnoMed contains information about cultural beliefs, medical issues and related topics pertinent to the health care of immigrants to Seattle or the US, many of whom are refugees fleeing war-torn parts of the world.

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## CULTURES

Specific community cultural profiles and subjects related to ethnic groups.



Cambodian

Chin

Chinese

Eritrean

Ethiopian (The Ethiopian population includes many ethnic and linguistic groups. See also on EthnoMed: Tigrean.)

Hispanic/Latino

Hmong

Iraqi

Karen

Nepali-speaking Bhutanese

Oromo

Somali

Somali Bantu

Vietnamese

## OTHER CULTURES

## CAMBODIAN HOMEPAGE

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### CAMBODIAN CULTURAL PROFILE

Information about Cambodian history, culture and community with emphasis on health related issues. [Read more...](#)

### CLINICAL TOPICS

Articles and information about health care topics related to Cambodian culture. [Read more...](#)

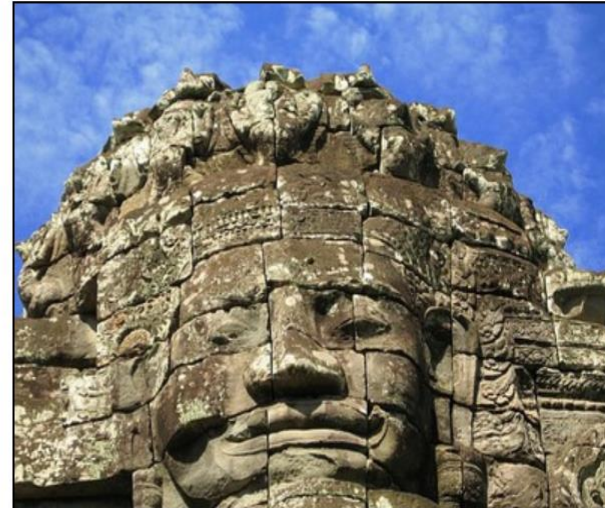
### PATIENT EDUCATION MATERIALS: KHMER

Health education materials in Khmer (Cambodian) language; English included or available separately. [Read more...](#)

### CULTURAL TOPIC ARTICLES

Articles and information about Cambodian culture, expanding on topics covered in the [Cambodian Cultural Profile](#). Some clinical information is included but culture is more the focus.

- [Cambodian Marriage](#)



# CAMBODIAN CULTURAL PROFILE

Author(s): Linda Wetzel, RN  
Reviewer(s): Jeniffer Huong  
Date Authored: January 02, 1995  
Reviewed and updated October 2008, by Jeniffer Huong and James Heng. Updates are indicated at the end of sections throughout this article.

## CAMBODIA

### Geography

Cambodia borders Thailand, Laos, and Vietnam in the southeastern part of Asia. Before 1970 Cambodia was fairly rich in natural and agricultural resources. Cambodia, unlike most Southeast Asian countries, enjoyed a stable export business and shipped rice, rubber, coal, and cotton worldwide. Many people lived in small villages near waterways, the majority working in agriculture.

### History and Politics

In contrast to this solid economic foundation, the political framework was unstable. The government was dominated by unpredictable leadership and erratic government policies. Some struggles ended when France established its protectorate over Cambodia in 1863. When Cambodia gained its independence from France in 1953, Prince Norodom Sihanouk ruled the country as an autocracy and continued to rule until 1970. In 1970 his prime minister, General Lon Nol, overthrew him and established a military government. The Khmer Rouge (Red or Communist Cambodians), a small movement of revolutionaries, began as a reaction to the military rule of Lon Nol and waged a war with the army until 1975 (Mattson, 1993).

### Khmer Rouge

In 1975, the Khmer Rouge overthrew the Lon Nol government and abolished the monarchy. This new regime was headed by Pol Pot and they began to systematically eliminate the Cambodian population in a reign of terror lasting from 1975 to 1979. An estimated 1.5 million to 3.0 million Cambodians, or 20% to 40% of the total population, died between 1975 and 1979 under the Khmer Rouge regime (Mollica et al., 1993). Hundreds of thousands were executed. Others died of disease and starvation during forced urban evacuation and brutal labor camps. The first to be killed were Buddhist monks, urban dwellers, government officials, and people with Western educations.

The purpose of this revolutionary movement was to make a new society in which all past influences were destroyed. Not only were millions of people killed, the Cambodian culture was largely destroyed. The term "autogenocide" was coined to characterize the savage acts committed by fellow Cambodians. The Vietnamese ousted the Khmer Rouge in 1979, ending the

#### Contents

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Enfermedades y afecciones

# <http://deafhealth.org/>

The screenshot displays the homepage of Deaf Health.org. At the top right, there is a link to "Subscribe to our Newsletter" and a search bar labeled "Search Deaf Health" with a "Submit" button. The logo "DEAF HEALTH.ORG" is prominently displayed in the center, with the tagline "Health Education in American Sign Language" below it. A navigation menu includes links for "ABOUT US", "NEWS", "DISEASES", "TESTS", "MEDICATIONS", "DOCTORS", "DONATE", and "CONTACT US". The main content area features a video player showing a woman in a grey polo shirt with the Deaf Health logo, signing. The video player has a play button in the center and navigation arrows on the sides. The YouTube logo is visible in the bottom right corner of the video player. The Windows taskbar at the bottom shows various application icons including File Explorer, Edge, Firefox, Chrome, Outlook, Teams, and several Microsoft Office applications.

Questions?

Thank you!

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