

Measles, Immunizations and Finding Accurate Health Information with



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Warm-up

- Have you had a patron come to you seeking health information?
- How comfortable do you feel responding to health information questions from your patrons?



What is being said. How will you respond?

- Vaccines can cause autism.
- Vaccines contain mercury, that's poison!
- Measles isn't that bad, and it is better than the dangers of a vaccine.
- NIH and CDC are in the pockets of big pharma, so why trust them?
- I'm so confused, what should I do about vaccinating my child?
- [Insert celebrity names here] has doubts about vaccinations

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Debuted October **1998**

22 health topics pages



116,000 hits in the first month



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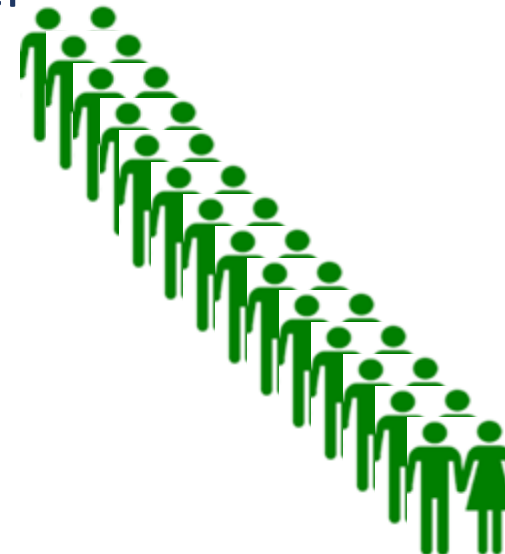
Today

1,000 health topic pages



172 million page views per quarter

693 million page views in FY 2018



Why MedlinePlus?

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- Licensed content especially for consumers
- Accurate and up to date
- Reviewed by MedlinePlus staff regularly
- Spanish mirror site
- No advertising

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Find information on health, wellness, disorders and conditions

~1,000 drugs
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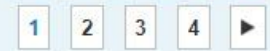
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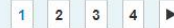
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Page last updated on 12 June 2019 URL for this page: <https://medlineplus.gov>

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 - MedlinePlus links only to original content
- Purpose: educational not commercial
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- Availability & maintenance
 - Links to only to reliable sources and maintains these links
 - Information is current or an update date is given

Evaluating Health Information

Evaluating Health Information

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Summary

Millions of consumers get health information from magazines, TV or the Internet. Some of the information is reliable and up to date; some is not. How can you tell the good from the bad?

First, consider the source. If you use the Web, look for an "about us" page. Check to see who runs the site: Is it a branch of the government, a university, a health organization, a hospital or a business? Focus on quality. Does the site have an editorial board? Is the information reviewed before it is posted? Be skeptical. Things that sound too good to be true often are. You want current, unbiased information based on research.

NIH: National Library of Medicine

Start Here

- [Evaluating Internet Health Information: A Tutorial from the National Library of Medicine](#) (National Library of Medicine)
- [Find Quality Resources: How Do I Know if I Can Trust the Information I Find Online?](#) (Office of the National Coordinator for Health Information Technology)



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<https://medlineplus.gov/evaluatinghealthinformation.html>

<https://medlineplus.gov/webeval/webeval.html>

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Childhood Immunization

Also called: Shots



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Summary

Today, children in the United States routinely get vaccines that protect them from more than a dozen diseases such as measles, polio, tetanus, diphtheria, and pertussis (whooping cough). Most of these diseases are now at their lowest levels in history, thanks to years of immunization. Children must get at least some vaccines before they may attend school.

Vaccines help make you immune to serious diseases without getting sick first. Without a vaccine, you must actually get a disease in order to become immune to the germ that causes it. Vaccines work best when they are given at certain ages. For example, children don't receive measles vaccine until they are at least one year old. If it is given earlier it might not work as well. The Centers for Disease Control and Prevention publishes a schedule for childhood vaccines.

Although some of the vaccines you receive as a child provide protection for many years, adults need immunizations too.

Centers for Disease Control and Prevention

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Measles

Also called: Rubella



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- Fever
- Cough
- Runny nose
- Conjunctivitis (pink eye)
- Feeling achy and run down
- Tiny white spots inside the mouth

Sometimes measles can lead to serious problems. There is no treatment for measles, but the measles-mumps-rubella (MMR) vaccine can prevent it.

"German measles", also known as rubella, is a completely different illness.

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Childhood Immunization

Also called: Shots



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Summary

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(American Academy of Family Physicians)
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- [For Parents: Vaccines for Your Children](#) (Centers for Disease Control and Prevention)
- [Frequently Asked Questions about Immunizations](#) (Nemours Foundation)
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- [Immunization Schedule](#) (Nemours Foundation)
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- [Instant Childhood Immunization Schedule](#) (Centers for Disease Control and Prevention)
- [Recommended Immunizations for Children from 7 Through 18 Years Old](#)
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- [Vaccines for Your Children: Protect Your Child at Every Age](#)
(Centers for Disease Control and Prevention)
- [Vaccines.gov](#) (Department of Health and Human Services)
Also in [Spanish](#)
- [What Is a Vaccine](#)  (National Institute of Allergy and Infectious Diseases)

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- [Whooping Cough](#)

Other Languages

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NIH MedlinePlus Magazine

- [Back-to-School Health Tips: Immunizations](#)
- [Vaccines Stop Illness](#)
- [Vaccines: What You Need to Know](#)

Latest News



- **New!** [Vaccination Is the Best Protection Against Measles](#) (05/03/2019, Food and Drug Administration)

Related Issues

- [After the Shots... What to Do If Your Child Has Discomfort](#) (Immunization Action Coalition) - PDF

Vaccines for Your Children: Protect Your Child at Every Age

[< Back to For Parents Home](#)



Vaccines by Age

Vaccines are recommended throughout your child's life to protect against serious, sometimes deadly diseases. Find out which vaccines are recommended for your child based on their age.

 Pregnancy	 Birth	 1-2 Months
 4 Months	 6 Months	 7-11 Months
 12-23 Months	 2-3 Years	 4-6 Years
 7-10 Years	 11-12 Years	 13-18 Years

Stay on track with your child's vaccines. [Full Vaccine Schedule](#)

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Vaccination Is the Best Protection Against Measles

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Measles is one of the most contagious respiratory diseases in the world that has the potential to be life-threatening. It is caused by a virus and is still common in many countries.

There are FDA-approved vaccines that provide lasting protection against measles that are proven both safe and effective. Most people who get the recommended two doses of the vaccine will never get sick with measles, even if they're exposed to the virus.

Still, outbreaks in the United States continue to occur. One main reason is because of unvaccinated people who are exposed to the virus abroad and bring it into the United States. Another is because of the spread of measles in communities that include unvaccinated individuals.

According to the [Centers for Disease Control and Prevention \(CDC\)](#), before the U.S. measles vaccination program started in 1963, about 3 million to 4 million people nationwide got measles each year. Of those, 400 to 500 people died, 48,000 were hospitalized, and 1,000 developed encephalitis (swelling of the brain) because of measles. In the United States, widespread use of the vaccine has led to a 99 percent reduction in measles cases compared with before the vaccination program began.

The measles virus is very skillful at finding vulnerable people and infecting them. Particularly at risk are people who cannot get vaccinated because they are too young or have certain health conditions. After an infected person leaves a location, the virus can remain in the air and on surfaces for up to two hours and infect others. Measles spreads so easily that if one person has it, 90 percent of the people close to that person who are not vaccinated or otherwise immune will also become infected.



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- [Current Vaccine Shortages and Delays](#) (Centers for Disease Control and Prevention)
- [Do Vaccines Cause Autism? Is it OK to Skip Certain Vaccines? Get the facts.](#)
(Mayo Foundation for Medical Education and Research)
- [Frequently Asked Questions about Thimerosal \(Ethylmercury\)](#)
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- [Ingredients of Vaccines](#) (Centers for Disease Control and Prevention)
- [Is There a Connection Between Vaccines and Autism?](#) (Nemours Foundation)
Also in Spanish
- [Possible Side-Effects from Vaccines](#) (Centers for Disease Control and Prevention)
- [Questions Parents Ask about Baby Shots](#) (Immunization Action Coalition) - PDF
- [Travelers' Health: Vaccine Recommendations for Infants and Children](#)
(Centers for Disease Control and Prevention)
- [Understanding Thimerosal, Mercury, and Vaccine Safety](#)
(Centers for Disease Control and Prevention) - PDF
- [Vaccinating Your Preteen: Addressing Common Concerns](#) (American Academy of Pediatrics)
- [Vaccination Records for Kids](#) (Centers for Disease Control and Prevention)
- [Vaccine Safety](#) (Centers for Disease Control and Prevention)
- [What Would Happen If We Stopped Vaccinations?](#) (Centers for Disease Control and Prevention)
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- [Immunizations for Preterm Babies](#) (American Academy of Pediatrics)
Also in Spanish
- [Your Baby's First Vaccines](#) (Centers for Disease Control and Prevention)

Images

- [Vaccine-Preventable Disease Photos](#) (Immunization Action Coalition)

Health Check Tools

- [Instant Childhood Immunization Schedule](#) (Centers for Disease Control and Prevention)

Statistics and Research

- [2012 National Immunization Survey Data](#) (Centers for Disease Control and Prevention)
- [FastStats: Immunization](#) (National Center for Health Statistics)
- [Safeguarding Our Health: Vaccines Protect Us All](#)  (National Institutes of Health)
- [VaxView: Vaccination Coverage \[data\] in the U.S.](#) (Centers for Disease Control and Prevention)

Clinical Trials

- [ClinicalTrials.gov: Childhood Immunization](#)  (National Institutes of Health)

Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine) 

- [Article: Introduction of a second MenB vaccine into Europe - needs and...](#)
- [Article: Oral Sucrose Versus Breastfeeding in Managing Infants' Immunization-Related Pain: A Randomized...](#)
- [Article: Clinical experience with the inactivated hepatitis A vaccine, Avaxim 80U Pediatric.](#)
- [Childhood Immunization -- see more articles](#)

Reference Desk

- [Overview of the Immune System](#)  (National Institute of Allergy and Infectious Diseases)

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- [Centers for Disease Control and Prevention](#)
Also in Spanish

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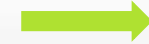
- [Kids' Guide to Shots](#) (Nemours Foundation)
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- [Vaccination: An Act of Love](#) (Pan American Health Organization) - PDF
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- [Immunizations](#) (Nemours Foundation)
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- [Vaccinations for Preteens and Teens, Age 11-19 Years](#) (Immunization Action Coalition) - PDF
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Patient Handouts

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Measles

Also called: Rubeola



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Summary

Measles is an infectious disease caused by a virus. It spreads easily from person to person. It causes a blotchy red rash. The rash often starts on the head and moves down the body. Other symptoms include

- Fever
- Cough
- Runny nose
- Conjunctivitis (pink eye)
- Feeling achy and run down
- Tiny white spots inside the mouth

Sometimes measles can lead to serious problems. There is no treatment for measles, but the measles-mumps-rubella (MMR) vaccine can prevent it.

"German measles", also known as rubella, is a completely different illness.



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Diagnosis and Tests

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- [Don't Let Measles Be Your Travel Souvenir](#) (Centers for Disease Control and Prevention)
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- [Frequently Asked Questions about Measles in the U.S.](#) (Centers for Disease Control and Prevention)
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- [Measles \(Rubeola\) Cases and Outbreaks](#) (Centers for Disease Control and Prevention)
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- [Measles, Mumps, and Rubella \(MMR\) Vaccine: Vaccine Safety](#) (Centers for Disease Control and Prevention)
- [Subacute Sclerosing Panencephalitis](#)  (National Institute of Neurological Disorders and Stroke)

National Institutes of Health

The primary NIH organization for research on *Measles* is the National Institute of Allergy and Infectious Diseases

Other Languages

Find health information in languages other than English on *Measles*

NIH MedlinePlus Magazine

NLM Grantee's "HealthMap" Helps Uncover Measles Vaccination Gap

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- [FastStats: Measles](#) (National Center for Health Statistics)

Clinical Trials

- [ClinicalTrials.gov: Measles](#)  (National Institutes of Health)

Journal Articles

References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- [Article: Increase in Measles Cases - United States, January 1-April 28, 2019.](#)
- [Article: Being unvaccinated and having a contact history increased the risk of...](#)
- [Article: Progress towards elimination of measles in Kenya, 2003-2016.](#)
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- [Measles, Mumps, Rubella and the MMR Vaccine during Pregnancy](#) (Organization of Teratology Information Specialists) - PDF
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- [Facts about Measles for Adults](#) (National Foundation for Infectious Diseases)



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I Measles, Mumps, Rubella and the MMR Vaccine

This sheet talks about exposure to measles, mumps, rubella, and the MMR vaccine in pregnancy or while breastfeeding. This information should not take the place of medical care and advice from your health care provider.

What are measles, mumps and rubella? How do they spread?

Measles (rubeola), mumps, and rubella (German measles) are viruses that can spread from person to person through coughing, sneezing, or sharing cups or utensils with an infected person. Measles, mumps and rubella used to be common in the United States, but vaccination programs have greatly lowered the number of cases. These viruses are still common in some parts of the world where people have not been vaccinated. Outbreaks of measles and mumps still happen in the U.S., especially in areas where vaccination rates are not high enough to protect the population. Once a person has been infected with measles, mumps, or rubella, it is rare to get the virus again.

What are the symptoms of measles, mumps, and rubella?

Measles causes rash, high fever, cough, sore throat, runny nose, and red, watery eyes. The person can spread the virus to other people from 4 days before the rash appears until 4 days after it goes away.

Mumps causes fever, headache, body aches, and swelling of the salivary glands under the ears, which can cause puffy and tender cheeks and jaw.

Rubella (German measles) usually causes a mild rash with a fever. Other symptoms may include headache, achy joints, runny nose and red eyes.

Rarely, serious problems can occur with these viruses, including pneumonia, meningitis, deafness and death.

What is the MMR vaccine?

The MMR vaccine is a mixture of live but weakened viruses from measles, mumps, and rubella. The vaccine causes a person to develop antibodies to these viruses and gives protection against the viruses in the future. These antibodies usually last for life. The vaccine may cause mild side effects including rash or joint aches.

People who have had severe reactions to the antibiotic called neomycin or to the MMR shot in the past should not receive the vaccine. People who take certain medications or have health conditions that severely lower their immunity (such as HIV/AIDS or steroid treatments), or who have cancer, should not receive this vaccine until their immunity improves. Talk to your health care provider if you have concerns about getting this vaccine.

How can I lower the chance of getting measles, mumps or rubella?

Measles, mumps, and rubella are very contagious (easily spread from person to person). Getting the MMR vaccine provides protection against these. Two doses of the vaccine are recommended for the most protection. All members of a household should be vaccinated. Non-vaccinated people who are exposed to someone with a confirmed case of measles may be given the MMR vaccine within 72 hours of exposure. This can provide some protection against the disease. If measles still develops, the illness usually has milder symptoms and lasts for a shorter time.

Other ways to lower the chance of spreading these viruses are to isolate and avoid those who are sick, properly wash hands with soap and water, and avoid sharing cups or utensils with someone who has been exposed.

Measles Home

About Measles

History of Measles

Signs and Symptoms

Transmission

Photos of Measles

Complications

Questions About Measles

Top Things Parents Need to Know

Measles Vaccination

Cases and Outbreaks

For Healthcare Professionals

Plan for Travel

Lab Tools

For Public Health Professionals

Resources

Related Links

[Measles and Rubella Initiative](#)



[World Health Organization](#)

[Pan American Health Organization](#)

Photos of Measles and People with Measles

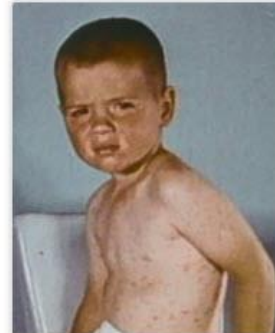
[Español \(Spanish\)](#)

Some of these photos might be unsuitable for children. Viewing discretion is advised.

Measles Skin Rash



Young child with moderate illness: runny nose, teary eyes caused by measles infection.
Source: "Measles Clinical Features" video



Young boy five to six days into illness with rash and cough.
Source: "Measles Clinical Features" video



Young, dark-skinned child with watery eyes, runny nose, and raised rash.
Source: "Measles Clinical Features" video



Face of boy after three days with measles rash.
Source: [CDC/PHIL](#)

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Skin of a patient after three days with measles rash.
Source: [CDC/PHIL](#)

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Child with a classic measles rash after four days.
Source: [CDC/PHIL](#)

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Drugs & Supplements

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Drugs, Herbs and Supplements

Drugs

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[V](#) [W](#) [X](#) [Y](#) [Z](#) [0-9](#)

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

Herbs and Supplements

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

[All herbs and supplements](#)

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

A

- [Acai](#) ^{NH} (National Center for Complementary and Integrative Health)
- [Activated Charcoal](#) (Natural Medicines Comprehensive Database)
- [Alfalfa](#) (Natural Medicines Comprehensive Database)
- [Aloe Vera](#) ^{NH} (National Center for Complementary and Integrative Health)
- [American Ginseng](#) (Natural Medicines Comprehensive Database)
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Drugs Database: Sample page

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Other drug names A-Z

[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](#) [0-9](#)

Drugs: C

[C Phen ® \(as a combination product containing Chlorpheniramine, Phenylephrine\)](#) see [Phenylephrine](#)

[C Phen DM ® \(as a combination product containing Chlorpheniramine, Dextromethorphan, Phenylephrine\)](#) see [Phenylephrine](#)

[C Phen DM ® \(as a combination product containing Chlorpheniramine, Dextromethorphan, Phenylephrine\)](#) see [Dextromethorphan](#)

[C-500 ® Chewable Tablet](#) see [Ascorbic Acid](#)

[C/T/S ®](#) see [Clindamycin Topical](#)

[C-Time ®](#) see [Ascorbic Acid](#)

[cA2](#) see [Infliximab, Infliximab-dyyb, Infliximab-abda Injection](#)

[Cabazitaxel Injection](#)

[Cabergoline](#)

[Cabometyx ®](#) see [Cabozantinib \(advanced renal cell carcinoma\)](#)

[Cabozantinib \(advanced renal cell carcinoma\)](#)

[Cabozantinib \(thyroid cancer\)](#)

[Caduet ® \(as a combination product containing Amlodipine, Atorvastatin\)](#) see [Atorvastatin](#)

[Caduet ® \(as a combination product containing Amlodipine, Atorvastatin\)](#) see [Amlodipine](#)

[Cafatine ® Rectal Suppository](#) see [Ergotamine and Caffeine](#)

[Home](#) → [Drugs, Herbs and Supplements](#) → [Ergotamine and Caffeine](#)



Ergotamine and Caffeine

pronounced as (er got' a meen) (kaf' een)



[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 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](#)



IMPORTANT WARNING:

Do not take ergotamine and caffeine if you are taking antifungals such as itraconazole (Sporanox) and ketoconazole (Nizoral); clarithromycin (Biaxin); erythromycin (E.E.S., E-Mycin, Erythrocin); HIV protease inhibitors such as indinavir (Crixivan), nelfinavir (Viracept), and ritonavir (Norvir); or troleandomycin (TAO).

Why is this medication prescribed?




The combination of ergotamine and caffeine is used to prevent and treat migraine headaches. Ergotamine is in a class of medications called ergot alkaloids. It works together with caffeine by preventing blood vessels in the head from expanding and causing headaches.

How should this medicine be used?

The combination of ergotamine and caffeine comes as a tablet to take by mouth and as a suppository to insert rectally. It is usually taken at the first sign of a migraine headache. Follow the directions on your prescription label carefully, and ask your doctor or pharmacist to explain any part you do not understand. Take ergotamine and caffeine exactly as directed. Do not take more or less of it or take it more often than prescribed by your doctor.

Herbs & Supplements Database: Sample page

H

- ➔ Hawthorn  (National Center for Complementary and Integrative Health)
- Hibiscus (Natural Medicines Comprehensive Database)
- ➔ Honey (Natural Medicines Comprehensive Database)
- Hoodia  (National Center for Complementary and Integrative Health)
- Hops (Natural Medicines Comprehensive Database)
- ➔ Horny Goat Weed (Natural Medicines Comprehensive Database)
- Horse Chestnut  (National Center for Complementary and Integrative Health)
- Horsetail (Natural Medicines Comprehensive Database)
- Hydrazine Sulfate (PDQ)  (National Cancer Institute)

Horny Goat Weed



What is it?

How effective is it?

How does it work?

Are there safety concerns?

Are there interactions with medications?

Are there interactions with herbs and supplements?

Are there interactions with foods?

What dose is used?

Other names

Methodology

References

What is it?

Horny goat weed is an herb. The leaves are used to make medicine. As many as 15 horny goat weed species are known as "yin yang huo" in Chinese medicine.

Horny goat weed is commonly used by mouth for sexual performance problems, such as erectile dysfunction (ED) and low sexual desire. It is also used for weak back and knees, joint pain, arthritis, mental and physical fatigue, and memory loss along with many other conditions. But there is limited scientific research to support any of these uses.

How effective is it?

Natural Medicines Comprehensive Database rates effectiveness based on scientific evidence according to the following scale: Effective, Likely Effective, Possibly Effective, Possibly Ineffective, Likely Ineffective, Ineffective, and Insufficient Evidence to Rate.


The effectiveness ratings for **HORNY GOAT WEED** are as follows:

Insufficient evidence to rate effectiveness for...

- **Osteoporosis.** Taking a specific extract of horny goat weed for 24 months in combination with calcium supplements decreases bone loss of the spine and hip in women who have passed menopause better than taking calcium alone. Chemicals in the extract act somewhat like the hormone estrogen.
- **Postmenopausal conditions.** Taking horny goat weed water extract for 6 months can decrease cholesterol and increase estrogen levels in postmenopausal women.

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Exercises: Is this site acceptable for MedlinePlus?

Open a new window.

Go to <https://medlineplus.gov/criteria.html>

Open a new tab in this window and go to: <https://vaxopedia.org>

The screenshot shows the Vaxopedia website interface. At the top, there is a teal navigation bar with the Vaxopedia logo on the left and a menu with buttons for Home, A-Z Index, Blog, Categories (with a dropdown arrow), About, and Contact. The main content area features an article titled "The 3 Components of Anti-Vaccine Propaganda" with a sub-headline "Can you recognize anti-vaccine propaganda?". Below the text is a historical anti-vaccination caricature envelope from 1879, depicting a man in a top hat and a woman with a child, with a skeleton representing disease. The envelope has handwritten text: "Alexander Hutchison Esq's Broughty Ferry, Dundee". To the right of the article is a "WHAT'S NEW?" section with a list of article titles, and a "SEARCH VAXOPEDIA" section with a search input field and a "Sort by" dropdown menu set to "Relevance".

vaxopedia
an A to Z guide to Vaccines

Home A-Z Index Blog Categories About Contact

The 3 Components of Anti-Vaccine Propaganda

Can you recognize anti-vaccine propaganda?

Alexander Hutchison Esq's
Broughty Ferry
Dundee

This anti-vaccination caricature envelope was likely issued by the Anti-Vaccination Society in 1879.

Do you know how some folks scare parents away from vaccinating and protecting their kids?

WHAT'S NEW?

- Do Vaccinated Kids Who Get Sick Have Milder Disease?
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- Is There a Plan to Send Unvaccinated People to Concentration Camps to Be Force Vaccinated?
- Are There Generic Vaccines?
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- Do Vaccines Cause Psoriasis?
- Why Is Lying About Vaccines Not Criminal?

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HOMEOPATHIC MEDICINE ▶

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ABOUT VACCINE EXEMPTIONS

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Dr. A. H. Grimmer*

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*The IAC
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PRODUCT DESCRIPTION

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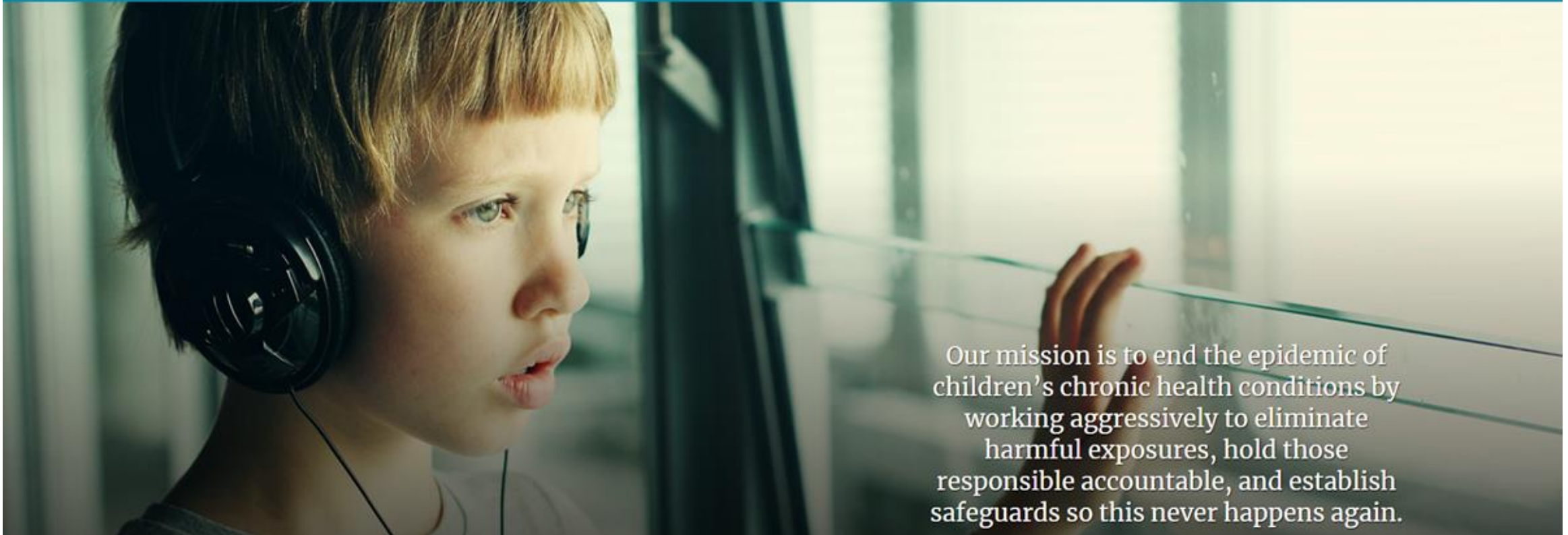
This ASD matrix Shield is designed to help to realign and clear some of the passages in the brain. It will help balance the person at mental, physical and emotional energy levels. It will provide EMF protection, and may help with certain aspects of life including focus, staying calmer than usual, be more aware of their own space, and may help balance out some anxiety.

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<https://store.bioelectricshield.com/asd-aspergers-autism-spectrum-bioelectric-shield/>



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Thank you!

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