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# Homeopathy

Homeopathy, also known as homeopathic medicine, is an alternative medical system that was developed in Germany more than 200 years ago. This fact sheet provides a general overview of homeopathy and suggests sources for additional information.

## Key Points

- There is little evidence to support homeopathy as an effective treatment for any specific condition.
- Although people sometimes assume that all homeopathic remedies are highly diluted and therefore unlikely to cause harm, some products labeled as homeopathic can contain substantial amounts of active ingredients and therefore could cause side effects and drug interactions.
- Homeopathic remedies are regulated by the U.S. Food and Drug Administration (FDA). However, FDA does not evaluate the remedies for safety or effectiveness.
- Several key concepts of homeopathy are inconsistent with fundamental concepts of chemistry and physics. There are significant challenges in carrying out rigorous clinical research on homeopathic remedies.
- Tell all your health care providers about any complementary health approaches you use. Give them a full picture of all you do to manage your health. This will help ensure coordinated and safe care.

## Overview

The alternative medical system of homeopathy was developed in Germany at the end of the 18th century. Supporters of homeopathy point to two unconventional theories: “like cures like”—the notion that a disease can be cured by a substance that produces similar symptoms in healthy people; and “law of minimum dose”—the notion that the *lower* the dose of the medication, the *greater* its effectiveness. Many homeopathic remedies are so diluted that no molecules of the original substance remain.

Homeopathic remedies are derived from substances that come from plants, minerals, or animals, such as red onion, arnica (mountain herb), crushed whole bees, white arsenic, poison ivy, belladonna (deadly nightshade), and stinging nettle. Homeopathic remedies are often formulated as sugar pellets to be placed under the tongue; they may also be in other forms, such as ointments, gels, drops, creams, and tablets.

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Treatments are “individualized” or tailored to each person—it is not uncommon for different people with the same condition to receive different treatments.

### Use in the United States

According to the 2012 National Health Interview Survey (NHIS), which included a comprehensive survey on the use of complementary health approaches by Americans, an estimated 5 million adults and 1 million children used homeopathy in the previous year. The 2012 survey also reported that although about 1.8 percent of children used homeopathy, only 0.2 percent of children went to a homeopathic practitioner. According to the 2007 NHIS, out-of-pocket costs for adults were \$2.9 billion for homeopathic medicines and \$170 million for visits to homeopathic practitioners.

### The Status of Homeopathy Research

Most rigorous clinical trials and systematic analyses of the research on homeopathy have concluded that there is little evidence to support homeopathy as an effective treatment for any specific condition.

A 2015 comprehensive assessment of evidence by the Australian government’s National Health and Medical Research Council concluded that there are no health conditions for which there is reliable evidence that homeopathy is effective.

Homeopathy is a controversial topic in complementary health research. A number of the key concepts of homeopathy are not consistent with fundamental concepts of chemistry and physics. For example, it is not possible to explain in scientific terms how a remedy containing little or no active ingredient can have any effect. This, in turn, creates major challenges to rigorous clinical investigation of homeopathic remedies. For example, one cannot confirm that an extremely dilute remedy contains what is listed on the label, or develop objective measures that show effects of extremely dilute remedies in the human body.

Another research challenge is that homeopathic treatments are highly individualized, and there is no uniform prescribing standard for homeopathic practitioners. There are hundreds of different homeopathic remedies, which can be prescribed in a variety of different dilutions for thousands of symptoms.

### Side Effects and Risks

- Certain homeopathic products (called “nosodes” or “homeopathic immunizations”) have been promoted by some as substitutes for conventional immunizations, but data to support such claims are lacking. The National Center for Complementary and Integrative Health (NCCIH) supports the Centers for Disease Control and Prevention’s recommendations for immunizations/vaccinations. To learn more about vaccines visit [www.vaccines.gov](http://www.vaccines.gov).
- While many homeopathic remedies are highly diluted, some products sold or labeled as homeopathic may not be highly diluted; they may contain substantial amounts of active ingredients. Like any drug or dietary supplement that contains chemical ingredients, these homeopathic products may cause side effects or drug interactions. Negative health effects from homeopathic products of this type have been reported.

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- A 2007 systematic review found that highly diluted homeopathic remedies, taken under the supervision of trained professionals, are generally safe and unlikely to cause severe adverse reactions. However, like any drug or dietary supplement, these products could pose risks if they are improperly manufactured (for example, if they are contaminated with microorganisms or incorrectly diluted).
- A 2012 systematic review of case reports and case series concluded that using certain homeopathic treatments (such as those containing heavy metals like mercury or iron that are not highly diluted) or replacing an effective conventional treatment with an ineffective homeopathic one can cause adverse effects, some of which may be serious.
- Liquid homeopathic remedies may contain alcohol. The FDA allows higher levels of alcohol in these remedies than it allows in conventional drugs.
- Homeopathic practitioners expect some of their patients to experience “homeopathic aggravation” (a temporary worsening of existing symptoms after taking a homeopathic prescription). Researchers have not found much evidence of this reaction in clinical studies; however, research on homeopathic aggravations is scarce. Always discuss changes in your symptoms with your health care provider.
- The FDA has warned consumers about different products labeled as homeopathic. For example, in 2015 it warned consumers not to rely on asthma products labeled as homeopathic that are sold over-the-counter. These products have not been evaluated by the FDA for safety and effectiveness.

## Regulation of Homeopathic Treatments

Homeopathic remedies are regulated as drugs under the Federal Food, Drug and Cosmetic Act (FDCA). However, under current Agency policy, FDA does not evaluate the remedies for safety or effectiveness. FDA enforcement policies for homeopathic drugs are described in FDA’s Compliance Policy Guide entitled *Conditions Under Which Homeopathic Drugs May be Marketed* (CPG 7132.15).

FDA allows homeopathic remedies that meet certain conditions to be marketed without agency preapproval. For example, homeopathic remedies must contain active ingredients that are listed in the *Homeopathic Pharmacopeia of the United States (HPUS)*. The HPUS lists active ingredients that may be legally included in homeopathic products and standards for strength, quality, and purity of that ingredient. In addition, the FDA requires that the label on the product, outer container, or accompanying leaflet include at least one major indication (i.e., medical problem to be treated), a list of ingredients, the number of times the active ingredient was diluted, and directions for use. If a homeopathic remedy claims to treat a serious disease such as cancer, it must be sold by prescription. Only products for minor health problems, like a cold or headache, which go away on their own, can be sold without a prescription.

## Licensing

Laws regulating the practice of homeopathy in the United States vary from state to state. Usually, individuals who are licensed to practice medicine or another health care profession can legally practice homeopathy. In some states, non-licensed professionals may practice homeopathy.

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Arizona, Connecticut, and Nevada are the only states with homeopathic licensing boards for doctors of medicine (holders of M.D. degrees) and doctors of osteopathic medicine (holders of D.O. degrees). Arizona and Nevada also license homeopathic assistants, who are allowed to perform medical services under the supervision of a homeopathic physician. Some states explicitly include homeopathy within the scope of practice of chiropractic, naturopathy, and physical therapy.

### If You Are Thinking About Using Homeopathy

- Do not use homeopathy to replace conventional care or to postpone seeing your health care provider about a medical problem.
- If you are considering using a homeopathic remedy, bring the product with you when you visit your health care provider. The provider may be able to help you determine whether the product might pose a risk of side effects or drug interactions.
- Follow the recommended conventional immunization schedules for children and adults. Do not use homeopathic products as substitutes for conventional immunizations.
- Women who are pregnant or nursing, or people who are thinking of using homeopathy to treat a child, should consult their (or their child's) health care providers.
- Tell all your health care providers about any complementary or integrative health approaches you use. Give them a full picture of all you do to manage your health. This will ensure coordinated and safe care.

### For More Information

#### NCCIH Clearinghouse

The NCCIH Clearinghouse provides information on NCCIH and complementary and integrative health approaches, including publications and searches of Federal databases of scientific and medical literature. The Clearinghouse does not provide medical advice, treatment recommendations, or referrals to practitioners.

Toll-free in the U.S.: 1-888-644-6226

TTY (for deaf and hard-of-hearing callers): 1-866-464-3615

Web site: [nccih.nih.gov](http://nccih.nih.gov)

E-mail: [info@nccih.nih.gov](mailto:info@nccih.nih.gov)

#### PubMed®

A service of the National Library of Medicine, PubMed contains publication information and (in most cases) brief summaries of articles from scientific and medical journals.

Web site: [www.ncbi.nlm.nih.gov/pubmed](http://www.ncbi.nlm.nih.gov/pubmed)

#### U.S. Food and Drug Administration (FDA)

The FDA oversees the safety of many products, such as foods, medicines, dietary supplements, medical devices, and cosmetics.

Web site: [www.fda.gov](http://www.fda.gov)

Toll-free in the U.S.: 1-888-463-6332

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### NIH Clinical Research Trials and You

The National Institutes of Health (NIH) has created a Web site, NIH Clinical Research Trials and You, to help people learn about clinical trials, why they matter, and how to participate. The site includes questions and answers about clinical trials, guidance on how to find clinical trials through [ClinicalTrials.gov](http://ClinicalTrials.gov) and other resources, and stories about the personal experiences of clinical trial participants. Clinical trials are necessary to find better ways to prevent, diagnose, and treat diseases.

Web site: [www.nih.gov/health/clinicaltrials/](http://www.nih.gov/health/clinicaltrials/)

### Research Portfolio Online Reporting Tools Expenditures & Results (RePORTER)

RePORTER is a database of information on federally funded scientific and medical research projects being conducted at research institutions.

Web site: [projectreporter.nih.gov/reporter.cfm](http://projectreporter.nih.gov/reporter.cfm)

### MedlinePlus

To provide resources that help answer health questions, MedlinePlus (a service of the National Library of Medicine) brings together authoritative information from the national Institutes of Health as well as other Government agencies and health-related organizations.

Web site: [www.medlineplus.gov](http://www.medlineplus.gov)

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