Children and the Use of Complementary Health Approaches

What’s the Bottom Line?

How much do we know about complementary health approaches for children?
We know a lot about the usage rates of complementary health approaches for children but little about their effects and safety.¹

What do we know about the effectiveness of complementary health approaches for children?
Studies have looked at many complementary health approaches for children with different conditions, but the evidence generally isn’t strong enough to show what works and what doesn’t.

What do we know about the safety of complementary health approaches for children?
Many complementary approaches haven’t been tested for safety in children.

Patterns in the Use of Complementary Health Approaches for Children
The 2012 National Health Interview Survey (NHIS) included a comprehensive survey on the use of complementary health approaches by almost 45,000 Americans,

¹ In the past, children were often excluded from research studies due to special protections, and findings from studies of adults were applied to children. Today, the National Institutes of Health requires that children be included in all studies, unless there are scientific and ethical reasons not to.
including more than 10,000 children aged 4 to 17. The survey found that 11.6 percent of the children had used or been given some form of complementary health product or practice, such as yoga or dietary supplements, during the past year.

The most frequently used approaches for children were natural products\(^2\) (fish oil, melatonin, and probiotics), and chiropractic or osteopathic manipulation.

For children, complementary health approaches were most often used for back or neck pain, other musculoskeletal conditions, head or chest colds, anxiety or stress, attention-deficit hyperactivity disorder (ADHD) or attention-deficit disorder (ADD), and insomnia or trouble sleeping.

For more information from the NHIS study on children’s use of complementary health approaches, including natural products and mind and body practices, visit the National Center for Complementary and Integrative Health’s (NCCIH) NHIS Statistics pages at nccih.nih.gov/research/statistics/NHIS/2012.

<table>
<thead>
<tr>
<th>10 most common complementary health approaches among children—2012</th>
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<tbody>
<tr>
<td><strong>Natural Products</strong>(^*)</td>
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<tr>
<td>Chiropractic or Osteopathic Manipulation</td>
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<tr>
<td>Yoga, Tai Chi, or Qi Gong</td>
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<tr>
<td>Deep Breathing</td>
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<td>Homeopathy</td>
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<td>Meditation</td>
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<td>Special Diets</td>
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<td>Massage</td>
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<td>Guided Imagery</td>
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<td>Movement Therapies</td>
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\(^*\)Dietary supplements other than vitamins and minerals.

\(^2\) This does not include vitamins and minerals.

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Other studies show that children in the United States who use or are given complementary health approaches vary in age and health status. For example:

— About 10 percent of infants are given teas or botanical supplements, usually for fussiness or stomach problems.

— About 40 percent of children aged 2 to 8 are given dietary supplements containing vitamins or minerals. However, that age group generally eats a nutritionally adequate diet.

— Teens are particularly likely to use products that claim to improve sports performance, increase energy levels, or promote weight loss.

— Children with chronic medical conditions, including anxiety, musculoskeletal conditions, and recurrent headaches, are more likely than other children to use complementary health approaches, usually along with conventional care.

What the Science Says About the Safety and Side Effects of Complementary Health Approaches for Children

— Dietary supplements result in about 23,000 emergency room visits every year. Many of the patients are young adults who come to the emergency room with heart problems from taking weight-loss or energy products. One-fifth of the visits are children; most of whom took a vitamin or mineral when unsupervised. (Child-resistant packaging isn’t required for dietary supplements.)

— Some dietary supplements contain contaminants, including drugs, chemicals, or metals.

— Children’s small size, developing organs, and immature immune system make them more vulnerable than adults to having allergic or other adverse reactions to dietary supplements.
— Some products may worsen conditions. For example, echinacea is a type of ragweed so people sensitive to ragweed may also react to echinacea.

— Do not rely on asthma products sold over-the-counter and labeled as homeopathic, the U.S. Food and Drug Administration (FDA) warns. Homeopathic remedies and dietary supplements are not evaluated by the FDA for safety or effectiveness. To learn more, visit NCCIH's Web page on homeopathy.

— Biofeedback, guided imagery, hypnosis, mindfulness, and yoga are some of the mind and body practices that have the best evidence of being effective for children for various symptoms (such as anxiety and stress) and are low-risk. However, spinal manipulation, a common complementary approach, is associated with rare but serious complications.

More to Consider
— Make sure that your child has received an accurate diagnosis from a licensed health care provider.

— Educate yourself about the potential risks and benefits of complementary health approaches.

— Ask your child’s health care provider about the effectiveness and possible risks of approaches you’re considering or already using for your child.

— Remind your teenagers to talk to their health care providers about any complementary approaches they may use.

— Do not replace or delay conventional care or prescribed medications with any health product or practice that hasn’t been proven safe and effective.

— If a health care provider suggests a complementary approach, do not increase the dose or duration of the treatment beyond what is recommended (more isn’t necessarily better).

— If you have any concerns about the effects of a complementary approach, contact your child’s health care provider.

— As with all medications and other potentially harmful products, store dietary supplements out of the sight and reach of children.

— The NCCIH Web site offers safety tips on dietary supplements and mind and body practices for children and teens.

— Tell all your child’s health care providers about any complementary or integrative health approaches your child uses. Give them a full picture of what you do to manage your child’s health. This will help ensure coordinated and safe care.

Selecting a Complementary Health Practitioner
If you’re looking for a complementary health practitioner for your child, be as careful and thorough in your search as you are when looking for conventional care. Be sure to ask about the practitioner’s:

— Experience in coordinating care with conventional health care providers.

— Experience in delivering care to children.

— Education, training, and license. For more information on credentialing, see the NCCIH Web site.

NCCIH offers more information on how to find a complementary health practitioner on its Web site.
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
E-mail: 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.


Cochrane Database of Systematic Reviews
The Cochrane Database of Systematic Reviews is a collection of evidence-based reviews produced by the Cochrane Library, an international nonprofit organization. The reviews summarize the results of clinical trials on health care interventions. Summaries are free; full-text reviews are by subscription only.

Web site: www.cochranelibrary.com
Office of Dietary Supplements (ODS), National Institutes of Health

ODS seeks to strengthen knowledge and understanding of dietary supplements by evaluating scientific information, supporting research, sharing research results, and educating the public. Its resources include online publications (such as Dietary Supplements: What You Need to Know), fact sheets on a variety of specific supplement ingredients and products (such as vitamin D and multivitamin/mineral supplements), and the PubMed Dietary Supplement Subset.

Web site: ods.od.nih.gov
E-mail: ods@nih.gov
PubMed Dietary Supplement Subset:
ods.od.nih.gov/Research/PubMed_Dietary_Supplement_Subset.aspx

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. See its Web page on Dietary Supplements.

Web site: www.fda.gov
Toll-free in the U.S.: 1-888-463-6332

Federal Trade Commission (FTC)

The FTC is the Federal agency charged with protecting the public against unfair and deceptive business practices. A key area of its work is the regulation of advertising (except for prescription drugs and medical devices).

Web site: www.ftc.gov
Toll-free in the U.S.: 1-877-382-4357

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 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/

Key References


