



Answers About Complementary and Integrative Medicine

What is complementary and integrative medicine (CIM)?

Many families of children with autism spectrum disorder (ASD) have questions about other types of treatments for symptoms of ASD. They may read about these online or hear about them from other parents.

Complementary medicine refers to practices that are used in addition to the educational, behavioral, and medical interventions recommended by your child's pediatrician and schools.

Alternative medicine refers to treatments that are used in place of the recommendations of your child's pediatrician.

When traditional and complementary practices are used together, it is often called *integrative medicine*.

CAM (complementary and alternative medicine) is another way of saying complementary and integrative medicine (CIM) treatments.

Pediatricians are trained to recommend evidence-based treatments. This means scientific studies have been done to see if the treatments work well and are safe. Studies are being done on CIM therapies to see if any of them work well and are safe. At this time, however, most CIM treatments are not proven to treat ASD.

Complementary and integrative medicine is often separated into the following categories:

- *Biological*. Examples are supplements, diets, and medicines. Some people think biologicals treat problems with the immune system, the digestive system, or the brain. These treatments are usually based on people's theories or ideas about ASD and not scientific research studies.
- *Mind-body medicine*. Examples include biofeedback, auditory integration training, and optometric (eye muscle) exercises.
- *Manipulation*. Massage and craniosacral manipulation are 2 examples.
- *Energy medicine*. One example is qigong.

How do families learn about CIM and alternatives to traditional medicine and educational practices?

Most families learn about CIM online, in books, in other media, and from other families. There are still not many studies of these methods in peer-reviewed scientific journals. *Peer-reviewed* means that other scientists have looked at the studies and made sure they were done well.

You will want to understand the evidence for any treatment you want to try for your child. Questions you might ask include

- Has it been published in a research journal where experts have reviewed the study and the results?
- How good was the study? Did it have enough children in it to make the claims it made? Was the treatment the same for all children? Was there a placebo (substitute with no expected effect, such as a sugar pill) so that the results could be compared with results of children not receiving the treatment but receiving similar attention? Did the children get other treatment that would change the result?
- Will your insurance cover it? How much will it cost? Most health care insurers will not cover treatments that are not evidence based.
- Will my child miss or have to stop other treatments to use it?
- What are the side effects? Every intervention or treatment has some potential side effects.

How do parents decide if it's safe to use a CIM treatment?

Many adults in the United States use CIM treatments themselves. Parents who use CIM treatments on themselves are more likely to use them with their children.

You can work with your pediatrician to look at the evidence for a treatment you are interested in and decide together if the chance of a benefit is worth any risk from the treatment.

Because there is little science to guide parents in CIM use, it is important to try any treatment step-by-step. Discuss with your pediatrician any CIM therapies you are thinking about.



How do parents decide if it's safe to use a CIM treatment? (continued)

Children with ASD learn skills and grow up, so over time, many children may seem to improve with or without a CIM treatment. It is important to also stop a treatment at times to see if it was helping. If it seems like it was not helping, you might want to stop it for good. If it seems like it was helping, restart the treatment and check again to see if the treatment keeps working. This can help you see if changes in your child are because of the CIM treatment or if they are because of something else. It is also important to only change one therapy at a time so that you can evaluate any results.

Are CIM methods harmful?

Some might be. For example, no one knows the long-term effects of high-dose vitamins or supplements in young children. Some vitamins may be given at doses high enough to cause side effects. Dietary restriction might also decrease needed nutrients.

Some CIM treatments, such as chelation and intravenous immunoglobulins, have known side effects and may put a child at risk. For example, chelation can cause seizures, heart arrhythmias, and kidney problems. Intravenous immunoglobulins are used to treat severe immune deficiencies but can cause allergic reactions and blood clots. Others, such as stem cell therapy and hyperbaric oxygen therapy, have not been shown to work for ASD at this time and have risks. Stem cell therapy can cause the growth of tumors. Hyperbaric oxygen can cause the eardrums to rupture.

There are costs for CIM treatments, and each family must decide if they can afford them.

Should I tell my child's pediatrician if I am planning to use or using a CIM therapy with my child?

Many families do not think that their child's pediatrician needs to know about a CIM treatment because they can get it without a prescription or from a complementary provider. Families may be concerned that their child's pediatrician may not understand the treatment or may not approve of it.

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It is important to tell your child's pediatrician about all the treatments you are using for your child. This way you can check for side effects or problems with other medications or treatments your child receives. If your child is on the gluten-free/casein-free diet, for example, your child's pediatrician can help you see if your child is getting enough calcium and vitamin D. He may then refer your child to a registered dietitian if there are concerns. If the pediatrician explains that he does not know about a CIM treatment, you could learn about the CIM together so that you can discuss benefits and risks.

In a medical home, which is not a place but a way of working together to care for your child, families and doctors partner to plan health care. It is important for families and pediatricians to have an open conversation about CIM treatments.

Your child's doctor may not agree that the treatment you wish to try has enough scientific evidence to support its use. But you still need to discuss it so that your child's doctor can help you keep an eye on your child for side effects or response. You and your child's pediatrician are partners in your child's health care.

Resources

American Academy of Pediatrics HealthyChildren.org:
www.HealthyChildren.org

Association for Science in Autism Treatment:
www.asatonline.org

Autism Watch: www.autism-watch.org

Freeman SK. *The Complete Guide to Autism Treatments: A Parent's Handbook; Make Sure Your Child Gets What Works!* Bellingham, WA: SKF Books; 2011

Interactive Autism Network: <https://iancommunity.org>

Interactive Autism Network "Vitamins and Supplements":
https://iancommunity.org/cs/what_do_we_know/vitamins_and_supplements

The information contained in this resource should not be used as a substitute for the medical care and advice of your pediatrician. There may be variations in treatment that your pediatrician may recommend based on individual facts and circumstances. Original resource included as part of *Caring for Children With Autism Spectrum Disorder: A Practical Resource Toolkit for Clinicians*, 3rd Edition.

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