



## Heavy Metals in Baby Food

News about heavy metals found in baby food can leave parents with a lot of questions.

Here's some information from the American Academy of Pediatrics about the risk of toxic metal exposure to children, and how to help minimize it.

### Can heavy metals in baby food harm my baby?

The low levels of heavy metals found in baby foods likely are a relatively small part of a child's overall toxic metal exposure risk. However, exposure from all sources should be minimized. Toxic metal exposure can be harmful to the developing brain. It's been linked with problems with learning, cognition and behavior. But keep in mind that many genetic, social, and environment factors influence healthy brain development, and toxic metal exposure is just one of these factors.



### How do heavy metals get into foods?

Metals are found naturally in the Earth's crust. They also are released into our environment as pollution and get into the water and soil used to grow food. Metals can also get into food from food manufacturing and packaging. Some of the most common metals that get into food, according to the U.S. Food & Drug Administration, include inorganic arsenic ([/English/safety-prevention/all-around/Pages/Arsenic-Health-Effects-and-Exposure.aspx](https://www.fda.gov/English/safety-prevention/all-around/Pages/Arsenic-Health-Effects-and-Exposure.aspx)), lead ([/English/safety-prevention/all-around/Pages/Lead-Screening-for-Children.aspx](https://www.fda.gov/English/safety-prevention/all-around/Pages/Lead-Screening-for-Children.aspx)), cadmium (<https://www.fda.gov/Food/FoodborneIllnessContaminants/Metals/ucm521427.htm>) and mercury (<https://www.fda.gov/Food/FoodborneIllnessContaminants/Metals/ucm2006760.htm>).

### How can I reduce my baby's exposure to toxic metals?

Stronger rules and regulations for testing and limiting (<https://services.aap.org/en/news-room/news-releases/aap/2021/aap-statement-on-fda-announcement-regarding-toxic-metals-in-baby-and-toddler-food/>) the amount of heavy metals in foods for babies and toddlers are most important. But there are several steps parents can take now to reduce the risk that kids will be exposed to toxic metals in their diet, and from other sources:

- **Serve a variety of foods.** Give your child a well-balanced diet that includes a variety of fruits, vegetables (wash in cool water before preparing and serving), grains and lean protein. Eating a variety of healthy foods that are rich in essential nutrients can lower the exposure to toxic metals and other contaminants found in some foods.
- **Read the labels.** Multi-ingredient baby food blends may be a good option. Be aware that many have the same first or second ingredient, though. Different flavor blends, like kale/pear and spinach/pumpkin, for example, may actually both have sweet potatoes as their first ingredient. It's important to read the ingredients label to be sure you are offering a true variety of foods.
- **Switch up your grains.** Fortified infant cereals can be a good source of nutrition for babies, but rice cereal does not need to be the first ([/English/ages-stages/baby/feeding-nutrition/Pages/Starting-Solid-Foods.aspx](https://www.aap.org/English/ages-stages/baby/feeding-nutrition/Pages/Starting-Solid-Foods.aspx)) or only cereal used. Rice tends to absorb more arsenic ([/English/safety-prevention/all-around/Pages/Arsenic-Health-Effects-and-Exposure.aspx](https://www.fda.gov/English/safety-prevention/all-around/Pages/Arsenic-Health-Effects-and-Exposure.aspx)) from groundwater than other crops. You can include a variety of grains in your baby's diet, including oat, barley, couscous, quinoa, farro, and bulgur. Multi-grain infant cereals can be a good choice. Try to avoid using rice milk and brown rice syrup, which is sometimes used as a sweetener in processed toddler foods.

[Back to Top](#)

## Tips for choosing & cooking rice for your children

Keep in mind that, among different types of rice, brown rice tends to have the highest arsenic levels. White basmati and sushi rice tends to have lower levels. When making rice from scratch, rinse it first. Cook it in extra water and then drain off the excess when it's done.

- **Check your water.** Heavy metals can get into tap water: for example, arsenic (</English/ages-stages/baby/feeding-nutrition/Pages/reduce-arsenic.aspx>) can contaminate well water (</English/safety-prevention/all-around/Pages/Where-We-Stand-Testing-of-Well-Water.aspx>), and older pipes may contain lead (</English/safety-prevention/all-around/Pages/Lead-Screening-for-Children.aspx>). You can contact your local health department to have your water tested if this is a concern.
- **Breastfeed if possible.** Breastfeeding, rather than formula feeding, also can help reduce exposure to toxic metals. The American Academy of Pediatrics (AAP) recommends (</English/ages-stages/baby/breastfeeding/Pages/Where-We-Stand-Breastfeeding.aspx>) breastfeeding as the sole source of nutrition for your baby for about 6 months.
- **Avoid fruit juice.** Offer toddlers and young children sliced or pureed whole fruits rather than juice (</english/healthy-living/nutrition/pages/fruit-juice-and-your-childs-diet.aspx>). Some fruit juices can contain concerning levels of heavy metals. Plus, juice is high in sugar and not as nutrient rich as whole fruit. Stick with breast milk or formula for babies under 6 months old, and water (</English/healthy-living/nutrition/Pages/Choose-Water-for-Healthy-Hydration.aspx>) and milk after they reach age 1.
- **Make healthy fish choices.** Some types of fish can be high in a form of mercury called methylmercury, and other metals. Of most concern are large, predatory fish that eat other fish and live longer, such as shark, orange roughy, swordfish, and albacore/white tuna. Eating too much contaminated fish can harm a child's developing nervous system. But fish is also an excellent source of protein and other nutrients (</English/news/Pages/AAP-Says-US-Children-Not-Eating-Enough-Seafood.aspx>) children need, and many are low in mercury. Look for better options (</English/safety-prevention/all-around/Pages/Protecting-Your-Children-From-Contaminated-Fish.aspx>) like light tuna (solid or chunk), salmon, cod, whitefish, and pollock.
- **Variety is important for homemade baby food, too.** There are several benefits to making your own baby food (</English/ages-stages/baby/feeding-nutrition/Pages/Starting-Solid-Foods.aspx>) fresh at home: it can be cost-effective, avoids potential contaminants from processing or packaging, and you can choose the ingredients. But keep in mind that offering a variety of foods is just as important when making your own baby food as when shopping for prepared baby foods.
- **Address lead hazards in your home.** There are other important ways to help reduce your baby's exposure to toxic metals. The most common source of lead exposure, for example, is from peeling or chipping paint from older homes. Soil, some cosmetics and spices, water, and certain occupations and hobbies can also be sources of exposure. Find more information about lead here (</English/safety-prevention/all-around/Pages/Lead-Screening-for-Children.aspx>).
- **Don't smoke or vape.** Secondhand and thirdhand (</English/health-issues/conditions/tobacco/Pages/How-Parents-Can-Prevent-Exposure-Thirdhand-Smoke.aspx>) smoke from both regular and e-cigarettes (</English/health-issues/conditions/tobacco/Pages/Facts-For-Parents-About-E-Cigarettes-Electronic-Nicotine-Delivery-Systems.aspx>), may expose children to metals such as cadmium and lead. Vaping allows toxic metals from the vape coils to get into the air and be inhaled. Secondhand smoke also contains harmful chemicals that can increase the risk of cancer.

## Is organic baby food better?

Organic (</English/healthy-living/nutrition/Pages/Differences-in-Organic-Natural-and-Health-Foods.aspx>) baby foods may have lower levels of certain pesticides and other chemicals. Because heavy metals are found in the soil and can get into prepared foods from processing, however, organic foods often contain similar levels of heavy metals as non-organic foods.

## Should my baby be tested for heavy metal exposure?

Until more information about metals in baby foods becomes available, experts say there's no need to get children tested. Tests that look at a child's hair for toxic metal exposure also are not recommended, since this type of testing is scientifically unproven and often inaccurate.

## Talk with your pediatrician

[Back to Top](#)

If you're concerned about heavy metals in baby food, talk with your pediatrician. Your regional Pediatric Environmental Health Specialty Unit (PEHSU (<http://www.pehsu.net/>)) have staff who can also talk with parents about concerns over environmental toxins.

## More information

- [Starting Solid Foods \(/English/ages-stages/baby/feeding-nutrition/Pages/Starting-Solid-Foods.aspx\)](#)
- [Choosing Healthy Snacks for Toddlers \(/English/ages-stages/toddler/nutrition/Pages/Selecting-Snacks-for-Toddlers.aspx\)](#)
- [Ask the Pediatrician: Is it OK to make my own baby food? \(/English/tips-tools/ask-the-pediatrician/Pages/Is-it-OK-to-make-my-own-baby-food.aspx\)](#)
- [Food Additives: What Parents Should Know \(/English/healthy-living/nutrition/Pages/Food-Additives.aspx\)](#)
- [AAP: Babies Should Eat a Varied Diet to Protect Against Heavy Metals in Commercial, Homemade food \(<https://publications.aap.org/aapnews/news/21916/AAP-Babies-should-eat-a-varied-diet-to-protect>\)](#)
- [Heavy Metals in Baby Food and Fruit Juice: Advice for Parents From Environmental Pediatricians \(\[https://nyscheck.org/wp-content/uploads/2020/03/NYSCEHC\\\_HeavyMetal\\\_Food\\\_March2020.pdf\]\(https://nyscheck.org/wp-content/uploads/2020/03/NYSCEHC\_HeavyMetal\_Food\_March2020.pdf\)\)](#)
- [Pediatric Environmental Health Specialty Units \(PEHSUs\) \(<https://www.pehsu.net/>\)](#)

**Last Updated** 8/12/2022

**Source** American Academy of Pediatrics (Copyright © 2021)

The information contained on this Web site 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.