The American Academy of Pediatrics

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American Academy of Pediatrics Says Some Common Food Additives May Pose Health Risks to Children

7/23/2018 New report calls for stronger federal food safety requirements and outlines ways families can limit exposure to chemicals used to process, package and preserve everyday foods that aren't adequately proven safe

Itasca, IL – With growing evidence that some chemicals found in food colorings, preservatives, and packaging materials may harm children's health, a new American Academy of Pediatrics (AAP) policy statement calls for urgently needed reforms to the U.S. food additive regulatory process. According to the statement in the August 2018 *Pediatrics*, "Food Additives and Child Health" (published online July 23), some currently allowed chemicals may best be avoided--especially for children.

An Increasing number of studies suggest some food additives can interfere with a child's hormones, growth, and development, according to the policy statement and accompanying technical report. Some may also increase the risk of childhood obesity, rates of which have tripled since the 1970s.

The United States allows the use of more than 10,000 additives to preserve, package, or modify the taste, appearance, texture, or nutrients in foods. Many were grandfathered in for approval during the 1950s, and roughly 1,000 additives are used under a "Generally Recognized as Safe" designation process that doesn't require U.S. Food and Drug Administration (FDA) approval.

"There are critical weaknesses in the current food additives regulatory process, which doesn't do enough to ensure all chemicals added to foods are safe enough to be part of a family's diet," said Dr. Leonardo Trasande, MD, MPP, FAAP, an AAP Council on Environmental Health member and lead author of the policy statement. "As pediatricians, we're especially concerned about significant gaps in data about the health effects of many of these chemicals on infants and children." Some additives are put directly in foods, while "indirect" additives may include chemicals from plastic, glues, dyes, paper, cardboard, and different types of coatings used for processing and packaging. The additives of most concern, based on rising research evidence cited in the report, include:

- Bisphenols, such as BPA, used to harden plastic containers and line metal cans, can act like estrogen in the body and potentially change the timing of puberty, decrease fertility, increase body fat, and affect the nervous and immune systems. BPA is now banned in baby bottles and sippy cups.
- Phthalates, which makes plastic and vinyl tubes used in industrial food production flexible, may affect male genital development, increase childhood obesity, and contribute to cardiovascular disease. In 2017, the Consumer Product Safety Commission banned the use of some phthalates in child-care products such as teething rings.
- Perfluoroalkyl chemicals (PFCs), used in grease-proof paper and cardboard food packaging, may reduce immunity, birth weight, and fertility. Research also shows PFCs may affect the thyroid system, key to metabolism, digestion, muscle control, brain development, and bone strength.
- Perchlorate, added to some dry food packaging to control static electricity, is known to disrupt thyroid function, early life brain development and growth.
- Artificial food colors, common in children's food products, may be associated with worsened attention-deficit/hyperactivity disorder (ADHD) symptoms. Studies cited in the report found a significant number of children who cut synthetic food colorings from their diets showed decreased ADHD symptoms.
- Nitrates/nitrites are used to preserve food and enhance color, especially in cured and processed meats. These chemicals can interfere with thyroid hormone production and the blood's ability to deliver oxygen in the body. Nitrates and nitrites also have been linked with gastrointestinal and nervous system cancers.

Potentially harmful effects of food additives are of special concern for children, according to the AAP. Children are more sensitive to chemical exposures because they eat and drink more, relative to body weight, than adults do, and are still growing and developing.

"Chemicals that affect the endocrine system, for example, can have lasting effects on a child since hormones coordinate complex functions throughout the body," Dr. Trasande said. "Even small disruptions at key moments during development can have lifelong consequences," he said. Annual estimated health-care costs tied to endocrine disrupting chemicals, he added, are estimated to be roughly \$340 billion.

Among its recommendations, the AAP calls for a more rigorous and transparent "Generally Recognized as Safe" designation process, including new requirements for toxicity testing before use in the marketplace and re-testing previously approved chemicals.

"We need more research to better understand how food additives affect human health," said AAP Council on Environmental Health Chairperson Dr. Jennifer Lowry, MD, FAAP. "Retesting is most important for the chemicals with increasing evidence of risks, but also those with safety data based on outdated testing methods or animal studies." She points to a recent review of nearly 4,000 food additives found that 64 percent of them had had no research showing they were safe for people to eat or drink.

Some of the AAP's recommendations may require congressional action. For example, the FDA currently lacks the authority it needs to review existing data on additives already on the market, or to re-test their safety for people to eat. In meantime, the AAP recommends safe and simple steps families can take to limit exposures to the chemicals of greatest concern. These include:

- Buy and serve more fresh or frozen fruits and vegetables, and fewer processed meats-especially during pregnancy.
- Since heat can cause plastics to leak BPA and phthalates into food, avoid microwaving food or beverages (including infant formula and pumped human milk) in plastic when possible. Also try to avoid putting plastics in the dishwasher.
- Use alternatives to plastic, such as glass or stainless steel, when possible.
- Avoid plastics with recycling codes 3 (phthalates), 6 (styrene), and 7 (bisphenols) unless they are labeled as "biobased" or "greenware."
- Wash hands thoroughly before and after touching food and clean all fruits and vegetables that cannot be peeled.

"Despite a tough political climate, there is an urgent need for decision makers to fix this issue," Dr. Trasande said, "starting by rolling back the presumption of safety for chemicals added to foods."

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The American Academy of Pediatrics is an organization of 67,000 primary care pediatricians, pediatric medical subspecialists and pediatric surgical specialists dedicated to the health, safety and well-being of infants, children, adolescents and young adults. For more information, visit <u>www.aap.org</u> and follow us on Twitter @AmerAcadPeds