References


This fact sheet has been written as a companion to the report In Harm’s Way: Toxic Threats to Child Development, issued by Greater Boston Physicians for Social Responsibility (GBPSR) in May, 2000. The 140 page report can be viewed, downloaded, or ordered at http://www.igc.org/psr. It is part of a series of fact sheets developed by GBPSR in collaboration with the JSI Center for Environment and Health Studies, for the project Harm Way Training Materials for Health Professionals. For more information on this and other fact sheets in the series, contact: Greater Boston Physicians for Social Responsibility, 11 Garden Street, Cambridge, MA 02138: 617-497-7440. jpm@igc.org.

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In Harm’s Way: Preventing Toxic Threats to Child Development

Why Breast-Feeding is Still Best for Baby

Out of Harm’s Way:

Preventing Toxic Threats to Child Development

Each of us wants to start our babies off with the best possible nutrition and health protection. Doctors advise that breast-feeding is the best start for your child. You may have heard recent reports that pollution in the environment can make it into the breast milk of nursing mothers. Does that mean that it is no longer safe to breast-feed? The answer is that despite concerns about pollutants, breast-feeding is by far the best form of nutrition for your baby.

Both breast milk and infant formula provide infants with essential nutrients. However, breast-feeding provides important health benefits when compared with infant formula. In addition, infant formula itself can also be a source of chemical exposure. This fact sheet provides women, their families, and their health care providers with a summary of currently available scientific evidence, which continues to indicate that breast is still best.

Fact Sheet Series for Patients

Greater Boston Physicians for Social Responsibility

April 2001
Out of Harm’s Way: Preventing Toxic Threats to Child Development

Why Breast-Feeding is Still Best for Baby

With all the concern about contaminants in breast milk, should women breast-feed their babies?

Yes. Even though chemicals from the environment are commonly found in breast milk, there is compelling evidence that breast-feeding is still the healthiest way to feed infants. While the contaminants in breast milk are of concern, studies to date do not demonstrate increased health risks from typical breast milk contamination. On the other hand, studies do show increased health risks from feeding infants formula rather than breast milk. Studies of both infant and maternal health show that breast-feeding continues to provide important and unique benefits. For this reason, the American Academy of Pediatrics characterizes human breast milk as uniquely superior for infant feeding over all substitutes. In short, considering all currently available scientific evidence, breast is still best.

What are some of the benefits?

Research shows that breast-feeding reduces the risk for a wide range of diseases, including both life-threatening and mild illness. There is strong evidence that breast-fed infants are less likely to develop a wide variety of illnesses such as pneumonia, diarrhea, ear infections, bacterial meningitis, bacteremia, urinary infections, and bacterial infections of the intestines. And, if one of these illnesses does develop, it is likely to be less severe among breast-fed infants than in infants who’ve been formula fed. There is good evidence that breast-feeding also improves intellectual development and reduces the risks of asthma, obesity, cancer, and diabetes. There is suggestive evidence that at least some of these benefits increase in infants that are breast-fed for longer periods of time. Breast-feeding also has a positive influence on attachment and behavior.

Mothers benefit too.

Many studies also indicate breast-feeding benefits the health of mothers. These benefits include less postpartum bleeding, earlier return to pre-pregnancy weight, improved bone strength, fewer hip fractures in later life, and reduced risk of ovarian and premenopausal breast cancers. Environmental contaminants – also of concern in formula feeding.

In addition to increasing risks for some health problems, formula-feeding may also increase a variety of chemical exposures. In the Midwest farming states, for example, many infants fed formula mixed with tap water are exposed to the pesticide atrazine at levels of concern. Formula feeding also results in elevated infant hair-manganese levels due to the high manganese content in formula (10-50 times the manganese concentration of breast milk). This is potentially of concern because elevated manganese has been associated with behavior and attention problems in children. Manganese levels are highest in supplemented and soy-based formulas.

By reducing their own exposure to environmental chemicals, women can reduce the contaminants in their breast milk.

While chemical contamination of breast milk has not been shown to cause adverse health effects, it does, however, increase the amount of these chemicals that are stored in the bodies of breast-fed children. This increased “body-burden” lasts throughout childhood. In a large study of Dutch children, for example, children aged three and one-half years who had been breast-fed for an average of four months had PCB body burdens that were four times greater than those who were not breast-fed. While adverse effects have not been demonstrated for these elevated body burdens, women are nonetheless advised to reduce potential risks by reducing their exposure to environmental chemicals.

Reducing or ending the production of harmful chemicals is the best way to protect mothers and babies.

Many toxic chemicals in food are “persistent,” that is, they remain in the environment for years, decades, or more, and build up in the body. Other harmful chemicals in consumer products and the environment are not persistent, but pass easily from mother to fetus or nursing infant. As long as we produce and use them, we risk contamination of the environment, our bodies, and the nourishment of our children, especially in the earliest and most vulnerable period of life. Decreasing or ending the production and use of harmful chemicals is the best way to safeguard breast-feeding and fetal development, and to ensure children the healthy start they deserve.