

What are Endocrine System Disruptors? The Issue and Action Steps for Comunity Members



What is the endocrine system?

The endocrine system is the network of glands in our bodies. These glands produce hormones which are released into the blood and carried to tissues and organs all over the body to control body functions. 1 Below is a visual of the glands and organs involved in the endocrine system.

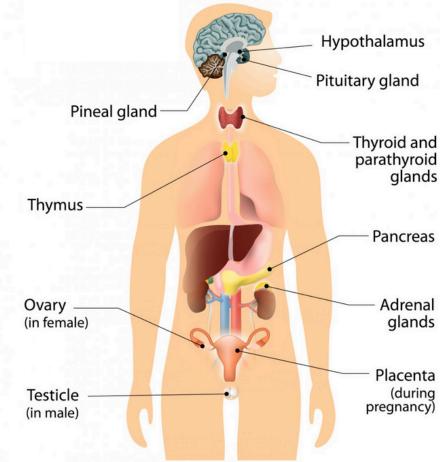


Image of the Endocrine system from the Environmental Protection Agency 1

The glands communicate with each other to control growth and development, metabolism, brain function, reproduction, and behavior.



What are endocrine distruptors?

<u>Endocrine disruptors</u> are chemicals that prevent the endocrine system from working properly.² ³ Several man-made chemicals can harm the body in many ways by interfering with the endocrine system, which plays an important role in maintaining the body's normal function. ² ³















Cosmetics Metal-lined cans Food pesticides Nonstick pans Fast food packaging Plastic bottles

Endocrine disruptors are found in many of the products that we use every day. We may be exposed to endocrine disruptors through:

- Breathing them in drinking
- Contaminated water
- Eating contaminated food
- Coming into contact with contaminated products through the clothes we wear or the cosmetics and soaps we use.⁴

Recent research on endocrine disruptors shows their possible connection with diseases such as endometriosis,⁵ breast cancer⁶, obesity⁷, diabetes⁸, and reproductive disorders such as uterine fibroids, menstrual irregularity, and polycystic ovary syndrome in women⁹ 10, and testicular cancer and lower sperm quality in men¹¹. Exposure to endocrine disruptors are also linked to poor pregnancy outcomes such as miscarriage, low birth weight and preterm birth¹².

What does this mean for me and my community?

Further research on these chemicals will help improve our ability to understand which chemicals and products are harmful to whom, and how to best regulate them.

Even as we continue to build that understanding, here are some steps we can take to protect ourselves and our communities:

- Use an app, such as Think Dirty, to evaluate the ingredients in cleaning, beauty, and household products before you buy them.
- Support continued regulation and environmental cleanup of known endocrine disruptors.
- Support continued research on products containing chemicals to properly understand their effect on the human body.
- Stay informed on new research. Scan the QR code to find resources.