
The Importance of Detoxification

Your body produces toxins during normal body functions. It is also exposed to pollutants, or toxicants, in the air, drinking water, and food. In functional medicine, detoxification or “detox” refers to the body’s process of making toxins, toxicants and hormones less harmful. This process is also referred to as “metabolic detoxification.”

Studies on how drugs are broken down and cleared from the body have helped us to understand the detox processes. There are well-defined pathways in the body that are responsible for changing toxicants into chemical compounds that are easier for the body to eliminate. This happens primarily through the urine or stools.

Scientists estimate the average adult has at least 300 toxins in their body and that a newborn may have over 200 toxins.

Our society is becoming more and more toxic. The constant exposure is resulting in an ever-increasing body burden, or toxic load, of chemicals. One of the most common exposures is to toxic farm chemicals: pesticides, herbicides, and fertilizers. Other sources of toxicants include materials used in new construction, carpet chemicals that can off-gas into the air, paint, household cleaners, mixed metals used in dental repairs, synthetic materials found in dental products, and even personal hygiene products applied to face, skin, and hair. Air pollutants are found in regional or work industrial areas, primary or second-hand smoke exposure, and auto exhaust.

On a daily basis, your liver, kidneys, large intestine, lymphatic system, and sweat glands work to reduce the body burden, or buildup, of these environmental contaminants.

Your toxic body burden is a result of three main factors:

- The amount of toxicant exposures from both internal and external sources.
- Your ability to produce detox enzymes for processing these compounds. This is based on your unique genetics and familial influence.
- The amount of detox supporting nutrients consumed in your diet. Specific foods support the processes of changing toxic chemicals and waste products to less harmful forms and assist in their elimination.

Toxic symptoms may occur when you reach your personal limit of accumulated toxins and are not able to clear them quickly or efficiently enough.

Researchers are recognizing the following symptoms related to the buildup of toxins:

- Obesity
- Type 2 diabetes
- Metabolic syndrome
- Cancer
- Fatigue
- Infertility
- Allergies
- Behavior and mood disorders
- Neurological conditions such as tremors, headaches, and cognitive difficulties
- Parkinson's and Alzheimer's Diseases

The goal of a clinically-directed metabolic detox protocol is to provide nutritional support for the pathways involved in the processing and elimination of toxins. A detox program results in improved symptoms and an increased sense of wellbeing for most people. Many who participate in a personalized detox program describe improvement in pain and fatigue levels, enhanced cognitive function and moods, more effective and satisfying sleep cycles, and weight loss.

REFERENCES

1. Sears ME, Genus SJ. Environmental determinants of chronic disease and medical approaches: Recognition, avoidance, supportive therapy, and detoxification. *J Environ Public Health*. 2012;2012:356798. doi:10.1155/2012/356798.