

PHASES OF DETOXIFICATION

Healthy Function

A healthy intestine provides a barrier against many toxins. A healthy gut helps to eliminate toxins before they can be transported to the liver

Unhealthy Function

Ingested toxins and toxins formed as metabolic by-products of an unhealthy microbiota can leak through a weakened intestine and are transported to the liver. This can result in systemic accumulation and re-circulation of metabolic toxins and contribute to chronic adverse health conditions

Generation of Water Soluble Intermediates:

- Fat soluble toxins are transformed into intermediate, slightly water soluble substances that may be more reactive
- Phase I enzymes also produce free radicals that are transformed by antiox-

Neutralization of toxic water-soluble intermediates:

- Conversion of reactive intermediates, from Phase I, to non toxic water soluble molecules
- Phase II reactions conjugate (attach) the toxin to other water-soluble substances to increase its solubility

Excretion of Neutralized Intermediates:

- substances released into bile for excretion
- biliary and intestinal toxins and facilitate

Incomplete Generation Of Water Soluble Intermediates:

- Incomplete transformation of fat soluble
- · Accumulation of toxins in fatty tissues,
- Stored toxins may recirculate in the body and contribute to chronic adverse health conditions

Incomplete Neutralization Of Toxic Water Soluble Intermediates

• Incomplete biotransformation of accumulation of 'activated toxins'

Failure to Excrete Neutralized Intermediates:

- results in reduced elimina-
 - Toxins are re-absorbed and re-circulate in the

HOW WE CAN START REDUCING OUR TOXINS EXPOSURE



Do all you can to purify your work space or home.



Protect Yourself When Needed

Remove all toxic and/or chemical substances such as insecticides, dyes, and paints. If you're using these, be sure to wear protective gloves and gear. If these items can't be removed, use an air purification system,



Nurture To Neutralize

Eat wholesome, healthy foods as a primary part of your diet. Try to avoid anything with refined sugar or high in preservatives. Consume meat from organically raised animals and organic produce whenever you can