

GENOVA Toxic Effects CORE

Toxic body burden is the lifelong accumulation of chemicals to which we are exposed through our food, air, and environment. This accumulation is not without consequences, and chronic health conditions like autoimmune and neurodegenerative diseases, as well as cancer and even diabetes, have been associated with ongoing exposure to environmental toxins.

Research suggests that this exposure begins very early in life. Once thought to be protected by the placental barrier, even infants have shown signs of in-utero toxic exposure. In fact, a 2005 Environmental Working Group (EWG) investigation found over 200 toxic compounds (in aggregate) in the cord blood of 10 newborns.

A comprehensive and cost-effective tool, Toxic Effects Chemical Occurrence & Related Exposure (CORE) narrows down the areas of toxic burden that could be related to chronic, intractable symptoms in your patients.

Why are the environmental toxic effects tests clinically useful?

Pervasive chemical compounds have been found to disrupt the immune, nervous, and endocrine systems. As more toxicants are used in products that increase the 'convenience factor' of our busy lives, there continues to be increases in infertility, certain cancers, developmental delays, asthma, chemical sensitivities, and hormonal imbalances. Environmental toxicants have been implicated in causing and exacerbating many of these conditions.

Populations at increased risk from the effects of these toxicants include:

- Infants - including in utero development and children
- Couples involved in preconception planning or infertility
- People with multiple and repeated toxicant exposures - jobs and hobbies
- People with immune impairment
- People with poor nutrient status
- People experiencing significant weight loss - post bariatric surgery
- Elderly - as toxicants bioaccumulate over time

Additionally, the impact of various exposures (whether individual, simultaneous, sequential, or cumulative over a lifetime) may not be simply additive. Instead, combinations of exposures may have synergistic effects that intensify or otherwise alter their impact, when compared with the effects of each contaminant alone.

The presence of toxicants can be a burden, hindering patients from responding to treatment. Practitioners searching for a patient's underlying causes of illness should consider testing for toxicants as a priority in their assessment. The CORE Profile can help identify a patient's specific toxic burden and allow the clinician to determine the optimal way to biotransform the toxicants and help the patient avoid further exposure.

GENOVA TOXIC EFFECTS CORE (blood) [4100]

❖ **Volatile solvents** – Benzene, Ethylbenzene, Styrene, Toluene, Xylene, Hexane, 2-methylpentane, 3-methylpentane; **Chlorinated pesticides** – DDE (p,p1), DDT (p,p1), Dieldrin, Heptachlor Epoxide, Hexachlorobenzene (HCB), Mirex, Oxychlorane, Endosulfan Sulfate, Trans-Nonachlor; Polychlorinated biphenyls (PCBs) – PCB 118, PCB 126, PCB 138, PCB 153, PCB 156, PCB 169, PCB 180, PCB 74, PCB 77; **Organophosphates** – Atrazine, Atrazine Mercapturate, Diethyldithiophosphate (DEDTP), Diethylthiophosphate (DETP), Dimethyldithiophosphate (DMDTP), Dimethylthiophosphate (DMTP); **Bisphenol A (BPA)**, 4-Nonylphenol, Triclosan; **Phthalates** - mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP), mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP), mono-2-ethylhexyl phthalate (MEHP), mono-ethyl phthalate (MEtP); **Parabens** - butylparaben, ethylparaben, methylparaben, propylparaben

Other environmental toxin tests available

- **Genova Phthalates & Parabens Profile (urine) [4101]:** MEHHP, MEOHP, MEHP, MEtP; Butylparaben, Ethylparaben, Methylparaben, Propylparaben
- **Genova Chlorinated Pesticides (blood) [4102]:** DDE (p,p1), DDT (p,p1), Dieldrin, Heptachlor Epoxide, Hexachlorobenzene (HCB), Mirex, Oxychlorane, Endosulfan Sulfate, Trans-Nonachlor
- **Genova Polychlorinated Biphenyls (PCBs) (blood) [4103]:** PCB 118, PCB 126, PCB 138, PCB 153, PCB 156, PCB 169, PCB 180, PCB 74, PCB 77
- **Genova Volatile Solvents (blood) [4104]:** Benzene, Ethylbenzene, Styrene, Toluene, Xylene, Hexane, 2-methylpentane, 3-methylpentane
- **Genova Organophosphates (urine) [4105]:** Atrazine, Atrazine Mercapturate, Diethyldithiophosphate (DEDTP), Diethylthiophosphate (DETP), Dimethyldithiophosphate (DMDTP), Dimethylthiophosphate (DMTP)
- **Genova Bisphenol A (BPA) (urine) [4106]:** Bisphenol A (BPA), 4-Nonylphenol, Triclosan

How to order a test kit:

To order a test kit simply request the test name or test code on a NutriPATH request form and have the patient phone **NutriPATH Customer Service** on **1300 688 522**.

