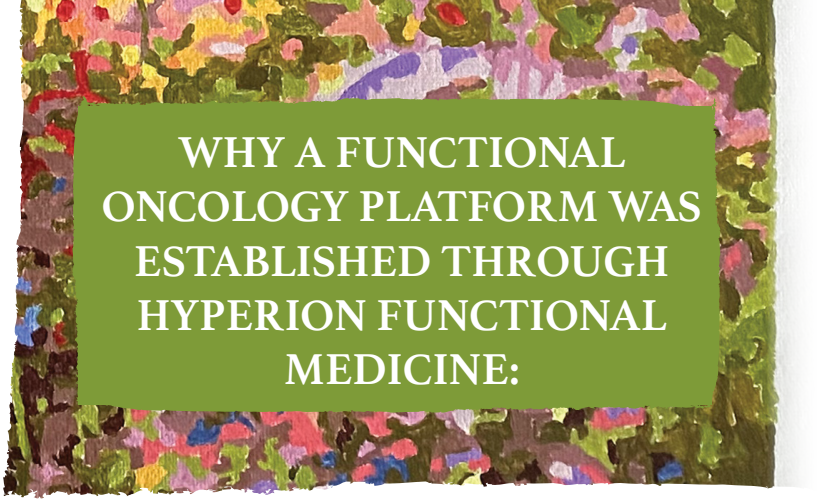
Cleveland's Center for Healing
HYPERION™
Functional Medicine



WHY A FUNCTIONAL ONCOLOGY PLATFORM WAS ESTABLISHED THROUGH HYPERION FUNCTIONAL MEDICINE:

In Memory of My Daughter, Hannah.

- I lost my beautiful 30-year-old daughter, Hannah, to a rare nasopharyngeal carcinoma 2020. In her memory for others' lives I can touch, I am offering tools to discover your roots of cancer and teach you about how these functional tools work to support your efforts to restore health, optimize your cancer treatment, and once you're in remission, prevent recurrence.
- LemonSpark Podcast. Sometimes it takes a lemon to spark a dream.....A Mother's Mission After Daughter's Cancer Battle: Get to the Root Cause.
- https://www.buzzsprout.com/1320676/13863713
- Too often people think of wellness and temporary terms, you are led to take short and maybe long-term steps, multiple treatment protocols, using chemicals, surgeries, radiation, and other pharmaceuticals to heal your body from cancer. All put into place to improve your cancer survival outcome. The cancer roots are never addressed in Western oncology platforms. Education on these cancer roots is not part of standard of care oncology education platforms. Oncologists don't have time to focus on the functional roots, they are focusing on research-based cancer treatment plans and protocols. In oncology, cancer roots are addressed through research on cancer stem cells.
- If the functional oncology cancer roots are not addressed, standard oncology treatment may not work, and if it does, cancer can and will likely reoccur without addressing cancer's true cause.
- Hyperion functional medicine augments the standard of care cancer treatment plans by addressing the root causes of cancer and chronic disease, then utilizing a research-based supplement plan applied to the cancer hallmarks driving cancer growth for that specific cancer.
- I want to teach cancer patients to improve their overall wellness and give them tools they can use the through utilization of multiple healing protocols to successfully continue a lifelong journey through health and disease, ultimately to optimize cancer treatment and ultimately, cancer survival.

Where Does Cancer Come From?

- Cancer has many roots you will discover in functional oncology. The functional oncology tree has been put together for patients to use as a tool to understand what the cancer roots are and how the effects of these roots impact development of cancer.
- Cancer develops in stages, and each one of the cancer hallmarks identified in the functional oncology tree roots play a role.

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HALLMARKS OF CANCER

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FUNCTIONAL ONCOLOGY TREATMENT PLAN

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The roots of cancer and their impact on the cancer hallmarks are not addressed in the standard of care of Western oncology pharmacological, surgical, and radiation treatment platforms. In the September 2021 issue of JNCCN -- Journal of the National Comprehensive Cancer Network finds that of the therapies tested, more than 80 in Phase III oncology trials did not achieve meaningful clinical benefit in prolonging survival. . Each one of cancer's roots will be addressed through educational programs offered through Healing Strong. Toxin exposures are the first root we will introduce.

Toxin Exposures and Cancer

Exposure to toxins is not addressed standard of care oncology treatment programs even though toxins in our environment contribute to toxic pollution in people leading to and contributing to cancer's progression:

- More than 1,400 chemicals and chemical groups are known to be or are likely carcinogens. Food, water, and air contaminants are causing daily exposures to these cancer-causing compounds, which invade the body and build up in blood and urine. Many of these compounds are retained in our fat and are not excreted. Detoxification protocols and careful nutrition planning must be implemented to aid in their removal from our body's cells.
- The scope and range of carcinogenic pollution in people, known as "body burden" has been calculated and federal health officials have measured many of these chemicals in our bodies' organ systems.
- Through a review of the scientific literature and publicly available human biomarker datasets, the Environmental Working Group, EWG.org, compiled the first comprehensive inventory of known or likely carcinogens that have been measured in people. Through their work, up to 420 known or likely carcinogens have been measured in a diverse array of populations.
- Data from the nationally representative National Health and Nutrition Survey, or NHANES, collected annually by the Centers for Disease Control and Prevention, confirms that many of these carcinogens are in the bodies of Americans, at any given time some people may harbor dozens or hundreds of cancer-causing chemicals in their workplaces. The need for greater awareness of our everyday exposure to chemicals and how to avoid them is evidenced by looking at the increasing rates of cancer in this country.
- Carcinogens detected in biomonitoring studies that measure toxins in people come from these sources:
- Industrial chemicals
- Commercial products such as food, personal care products such as lotions and makeup, home cleaning products, methods of food and personal care products storage in plastics and cans.
- Pesticides, glyphosate in particular, on our fruits and vegetables and in our cereals, processed foods, and other wheat products.
- Chemical Solvents
- Heavy metals from paints, water sources, dental amalgams, and industry.
- Byproducts of combustion, heating, and disinfection.
- So, we know all of us are being exposed to toxins daily in some way or form. Scientists are looking at new ways in which chemicals are likely to contribute to cancer — rethinking what constitutes a chemical carcinogen. Cancer develops in stages and many carcinogens disrupt multiple or overlapping biological pathways. These carcinogens affect cancer development by impacting specific cancer hallmarks that drive cancer, see the functional oncology tree leaves to identify these hallmarks. We look deeply at the role chemicals play in cancer development in functional oncology. It is not enough to simply consider the effects of individual chemicals on the body. The combined effects of the many chemicals we are exposed to are a clear threat to our health. In the combined effects of these toxins with the other cancer hallmarks add to cancer risk and progression.

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- The potential for chemicals that disrupt specific biological pathways, known as the hallmarks of cancer, to form carcinogenic combinations, was addressed in The Halifax Project. A consortium of hundreds of scientists and physicians from around the world. The World Health Organization has identified key mechanisms by which carcinogens act. This signifies the recognition that many carcinogens act on multiple biologic pathways that result in the cellular changes necessary for cancer development and reflect the need for initiatives to address these toxin exposures.
- The 2008-2009 report of the President's Cancer Panel is detailed below:
- The Presidents Cancer panel was especially concerned to find that the true burden of environmentally induced cancer has been grossly underestimated. Nearly 80,000 chemicals on the market in the United States, many of which are used by millions of Americans in their daily lives and are largely unregulated and understudied, exposure to potential environmental carcinogens is widespread. The public remains unaware of many common environmental carcinogens. Children are far more vulnerable to environmental toxins than adults.
- The array of carcinogens detected in humans is alarming. Much work is needed to reduce and eliminate toxic chemicals from our daily lives. Bans on PCBs and lead in gasoline have led to reductions of some of these chemicals – but regulations put into place by our government can take decades to enact, in addition, politics can compromise their effectiveness. In the interim, cancer rates continue to increase.
- We should all become aware of the sources of carcinogens in our environment, toxic foods, and consumers products. Reducing exposures to carcinogens, through government regulation and personal choices, can have important health benefits.

HOW CAN YOU KNOW WHAT TOXINS ARE IN YOUR BODY?

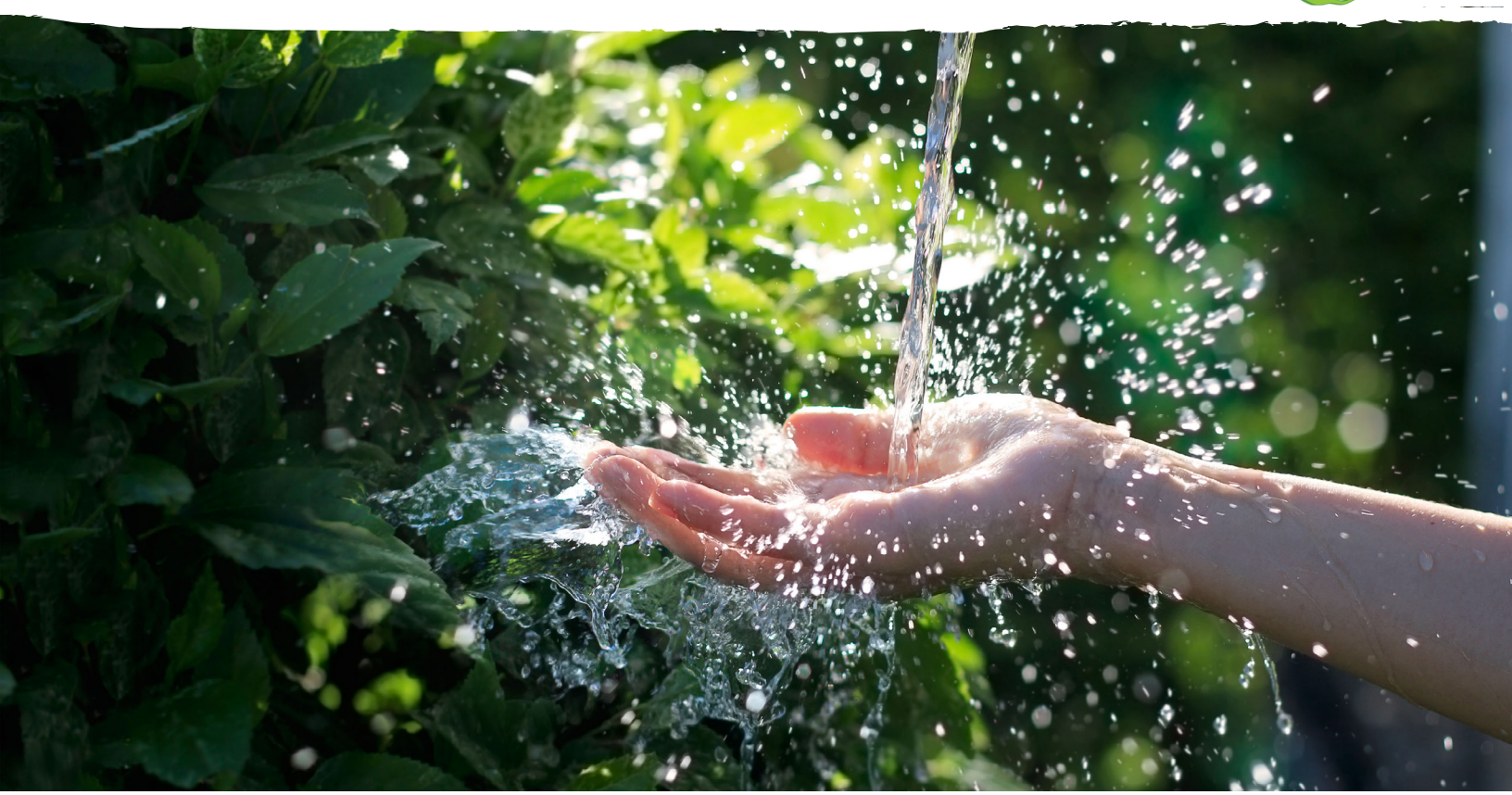
- The gold standard for assessing exposure to chemical carcinogens is called biomonitoring –measurement of chemicals or their metabolites in blood, urine, breast milk, hair or other human samples is vital for accurate determination and tracking of exposures. Biomonitoring is part of policy and procedure for most companies that use chemicals and have the risk of exposures of the workers on a routine basis. Hyperion functional medicine's functional oncology platform uses testing as indicated by patient history to identify chemical loads and types of chemicals in our bodies as indicated. Specific detoxification plans are implemented to reduce the burden on the kidney and the liver, and other cells in the body. Cleaning up toxins in the cancer microenvironment, where your roots live and thrive, makes an impact on healing from cancer. All patients are placed on a detoxification plan in their initial functional oncology visit.
- Cancer develops in stages and many carcinogens disrupt multiple or overlapping biological pathways. Scientists and physicians increasingly recognize that we need to look more expansively at the role chemicals play in cancer development. It is not enough to simply consider the effects of individual chemicals on the body. The combined effects of the many chemicals we are exposed to in real-life leading to the toxic load in our bodies and exposure circumstances must be considered.
- Chemicals that cause cancer: Acrylamide, arsenic, benzene, bromodichloromethane, bromoform, DDT, DDE, dibromochloromethane, hexachlorobenzene, and glyphosate. Xenoestrogens are endocrine disruptors and another source of cancer that must be discussed. Endocrine disruptors are a category of chemicals that alter the normal function of hormones. These include synthetic industrial chemicals: solvents/lubricants and byproducts such as plastics (bisphenol A, BPA), plasticizers (phthalates), flame retardants (polybrominated diphenyl ethers, PBDEs), pesticides (dichlorodiphenyltrichloroethane, DDT), and pharmaceutical agents (diethylstilbestrol, DES). They are serious environmental hazards that have hormone-disruptive effects on both wildlife and humans. These chemicals have a specific role in breast cancer development and other hormone driven cancers which are discussed specifically for breast cancer. We are all exposed to pesticides daily through our lifetimes. Populations living within areas with high pesticide use have an increased risk of developing multiple types of cancers, including non-Hodgkin's lymphoma, multiple myeloma, soft-tissue sarcoma, lung sarcoma, pancreatic, skin, brain, stomach, liver, bladder, and gall bladder cancer.

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- Testing for chemicals in the body is a window into the amount of exposure, but do not address the source or route of exposure. Exposure risks need to be identified and eliminated.
- We focus on mitochondria because these cell structures are a fundamental component of the cell that play a vital part in our energy metabolism. In addition, Mitochondria are highly sensitive to environmental toxicants. When our mitochondria become stressed, they then are metabolically altered and can provide support for cancer cell growth and tumor development. . Mitochondria are already susceptible to damage, which may be exacerbated by environmental exposures.
- With damaged and ineffective mitochondria, increased cancer mutations have been found in colorectal cancer, breast cancer, gastric cancer, and hepatocellular cancer to name a few. Mutations in mitochondrial DNA have been reported in cancers of the thyroid, renal adenocarcinoma, colon cancer, head and neck cancers, and prostate cancer .
- Altered mitochondrial function is a hallmark of many cancers although the nature of mitochondrial dysfunction depends on the type of cancer. Dysfunctional mitochondrial signaling can bring about broad changes in gene expression that alters cell structure and function in cancer go Many of the cancer hallmarks leading to cancer development and proliferation are impacted directly by mitochondrial damage.

We must avoid exposure to toxins!

In partnership with healingstrong™



[1]https://www.ewg.org/research/pollution-people