

Thyrodine® Thyromoto: A Thyroid Support That Could Benefit Hashimoto's Disease

The World's First Government Approved Health Canada, Thyroid Gland Medication without Iodine for Thyroid Support

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BACKGROUND: What is Hashimoto's Disease?

Hashimoto's disease is an *autoimmune disorder* that is the most common cause of *hypothyroidism* in the United States. It affects about 1 out of 20 people and at least 8 times more common in women than men. It can occur in teens or young women, though it is most common with women between ages 40 and 60. Hashimoto's disease is hereditary and your chances of developing it may increase if other family members have the disease. In this case all family members should be checked proactively if they have any autoimmune deficiencies.

Autoimmune disorders occur when the body's immune system attacks healthy cells and tissues in the brain or spinal cord, which results in inflammation. This inflammation may then cause impaired functioning, resulting in neurological or psychiatric symptoms. It is a breakdown due to diet, stress and environmental toxins leading to hormone deficiencies.

Under normal conditions your T-cells (T-lymphocytes) protect your body from invading cells. With Hashimoto's disease (chronic lymphocytic thyroiditis) your own immune system continues to attack itself to the point when damaged immune cells invade and destroy your entire thyroid gland if left untreated. In this case the immune system makes antibodies that attack the thyroid gland, which may enlarge or shrink, and lose its ability to produce adequate thyroid hormone.

Hashimoto's is associated with other autoimmune diseases, including type 1 diabetes, Addison's disease, rheumatoid arthritis, pernicious anemia, and even prematurely gray hair. In people with a genetic susceptibility, the onset of Hashimoto's thyroiditis can be triggered by factors such as high iodine intake, pregnancy, or cigarette smoking.¹ Autoimmune disorders such as Hashimoto's thyroiditis may go undetected for several years without any

¹ Harvard Health Publishing. 2019.



noticeable symptoms till they reach a tipping point from which they can emerge quickly and end up being devastating to your health.

What is Hypothyroidism?

The thyroid gland produces and stores hormones that regulate metabolism. It releases T3 (triiodothyronine) and T4 (thyroxine)—the two most important thyroid hormones—when the hypothalamus (a regulatory region of the brain) senses that their circulating levels have dropped. The hypothalamus signals the pituitary gland, which sends thyroid-stimulating hormone (TSH) to the thyroid to trigger the release of thyroid hormones. In *hypothyroidism* (low thyroid hormone production), the thyroid gland doesn't respond fully to TSH, so not enough T3 and T4 reach the body's organs, and functions begin to slow. The pituitary gland releases more and more TSH in an effort to stimulate thyroid hormone production. That's why TSH levels in the blood are high when thyroid function is low.

“Hypothyroidism is especially common in women. Between ages 35 and 65 about 13% of women will have an underactive thyroid, and the proportion rises to 20% among those over 65. Because the link between hypothyroidism symptoms and thyroid disease isn't always obvious, especially in older people, many women won't know they have an underactive thyroid and therefore won't be treated for it.”²

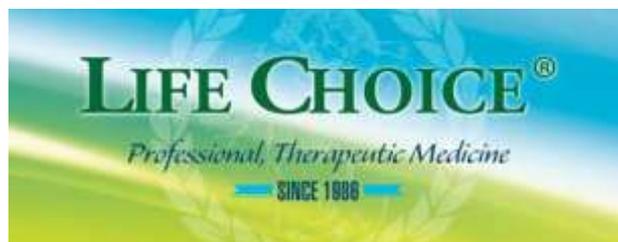
This lack of treatment can increase the risk for high cholesterol, high blood pressure and heart disease. This is why it is so important to beware of the hypothyroidism symptoms and have the thyroid function checked by your healthcare professional. My preference is to seek a naturopathic doctor since the disease will be treated holistically and not symptomatically.

Changes in our mental state, energy level or appearance (skin, hair, or weight) are not always the results of the aging process but many times the result of an underactive thyroid, the gland that influences virtually every organ system in the body. The hormones it secretes into the bloodstream play a vital role in regulating metabolism.

Hypothyroidism symptoms

- Fatigue
- Frequent, heavy menstrual periods
- Forgetfulness
- Weight gain
- Dry, coarse skin and hair

² Harvard Health Publishing. 2019.



- Hoarse voice
- Intolerance to cold

Symptoms Related to the Reproductive System are Gender-specific

Thyroid hormone imbalance is far reaching and results in multiple health concerns from depression to lack of energy or side effects of pregnancy, and it also affects a large percentage of women globally, as you can read in the Danish nationwide study reported in *European Journal of Endocrinology*. Its objective was that immunological changes in and after a pregnancy may influence the onset of autoimmune diseases, such as Hashimoto's Thyroiditis disease. An increased incidence of hyperthyroidism has been observed both in early pregnancy and postpartum, but it remains to be studied if the incidence of hypothyroidism varies in a similar way.

For example, women will notice changes in their menstrual cycle. Infertility could stem from hypothyroidism in both sexes. Hypothyroidism can affect exercise capacity, physical performance, and libido in both genders. Men may also experience *erectile dysfunction*, according to Frederick Singer, MD, endocrinologist and director of the endocrinology and bone disease program at the John Wayne Cancer Institute at Providence Saint John's Health Center in Santa Monica, California. Men and women may share the tendency to dismiss their symptoms, relating them to stress or aging. But getting a proper diagnosis is important so treatment can be started and symptoms stopped.³

Why Medication Is Not Working?

What is absorbed to the cells is far more important than what's consumed in the gut. This is true with most things in life from the food we eat to the medications taken, be it prescription drugs or naturally sourced nutraceuticals. A medicine that is beneficial for one may be poorly tolerated by another, while many taking synthetic medication may experience genetic mutations.

The human body is complex and interlinked with other endocrine gland stimulation. Taking a single gland—especially when synthetically based and created in a lab opposed to one naturally occurring—, may cause an imbalance with other endocrine glands involved: hypothalamus, pituitary gland, thyroid, parathyroid, adrenal glands, pineal glands, reproductive glands (which include the ovaries and testes) and the pancreas.

Synthetic and natural plant or animal nutraceuticals are a controversial subject and one of debate for several decades. Synthetic drugs are designed to mimic what nature naturally

³ Stewart, Kristen. 2014.



provides and is often produced with harsh chemicals—as recently discovered with so called hormone free thyroid gland. The body normally has difficulty recognizing synthetic drugs, making them harder to metabolize, and for this reason are more likely to induce toxicity and adverse side effects.

Treatment of subclinical hypothyroidism with levothyroxine, though commonly practiced, is not associated with improvements in quality of life or thyroid-related symptoms, according to a meta-analysis from 2018.

Twenty-one randomized clinical trials including 2,192 participants with subclinical hypothyroidism, thyroid hormone therapy was not significantly associated with improvements in general quality of life (standardized mean difference -0.11) or thyroid-related symptoms (standardized mean difference 0.01).

Among non-pregnant adults with subclinical hypothyroidism, the use of thyroid hormone therapy was not associated with improvements in general quality of life or thyroid-related symptoms. These findings do not support the routine use of thyroid hormone therapy in adults with subclinical hypothyroidism.⁴

Why Iodine Treatment with Hashimoto's Disease Does Not Work?

Iodine deficiency is one cause of hypothyroidism. However, studies are also showing that in the case of chronic autoimmune thyroiditis, the highest prevalence occurs in countries with the highest intake of iodine, such as the US and Japan. Although iodine supplementation should be implemented to prevent and treat iodine-deficiency disorders, supplementation with those with Hashimoto's disease should eliminate iodine from their diet and from supplements.

Possible Thyroid Support That Will Benefit Hashimoto's Disease

Raw desiccated whole thyroid gland concentrates derived from non-GMO grass-fed bovine that is non-medicated, hormone free and iodine free. Thyrodine® Thyromoto is a proprietary preparation without chemical residue, both safe and effective. It also contains *selenium* which is needed for treating thyroid disease, especially when combined with *zinc picolinate*, since they both help build immunity. It is also important to note that anemia is associated with hypothyroidism, thus low dose *iron* included in the formulation could also be effective in counteracting this deficiency. Thyrodine® Thyromoto is a four year achievement, and licensed by Health Canada.

⁴ Feller, M. et. al. 2018.



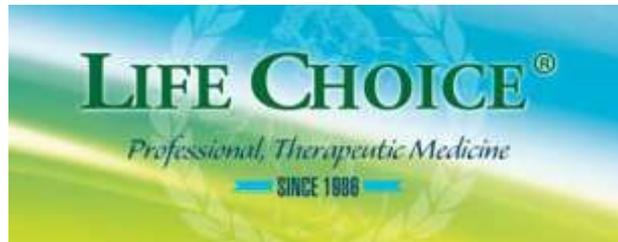
Thyrodine® Thyromoto – Raw Desiccated Whole Thyroid Gland Concentrate

Last year (2019) Life Choice® introduced Thyrodine® Thyroid Gland into the marketplace. It quickly became one of our highest-rated products because it was the first time that thyroid gland could be sold without a prescription drug. Life Choice® was successful in doing the first switch submission from prescription drug status to natural health product status—the first government approved hormone free thyroid gland—after submitting all the clinical evidence and lab testing to Health Canada. Thyrodine® Thyroid Gland is used for people who have both hypothyroidism and hyperthyroidism; it is fortified with iodine and zinc.

This year (2020) we were successful in having Thyrodine® Thyromoto licensed. It is made free from iodine to be suitable for those having Hashimoto's Disease as they need to restrict their iodine input. We believe that Thyrodine® Thyromoto will equal or surpass the success of Thyrodine® Thyroid Gland because of the massive need.

- Thyrodine® Thyromoto is the world's first government (Health Canada) approved thyroid gland medication for thyroid support.
- Formulated by a naturopathic doctor, manufactured under GMP guidelines and using USP pharmaceutical grade raw materials to ensure therapeutic results with all safety markers in place.
- Scientifically backed with clinically effective results, protected within Health Canada Master File.
- Researched-based and proven in published journals.
- This preparation is preserving the integrity of the thyroid gland without chemical residue (not an industry standard). The glands have been purchased from the same supplier for the last 25 years.
- A thyroid gland concentrate from non-GMO, grass-fed New Zealand bovine; non-medicated and hormone free.
- Made without iodine to be acceptable for those having Hashimoto's disease and fortified with selenium, zinc and iron, without any toxic chemical residue on the thyroid gland.
- Suitable, safe and effective treatment for anemia in a non-binding way. According to the last official report by the WHO from 2008, anemia affects 25% of the world's population, and it is estimated that up to half of all cases are due to iron deficiency.

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- Potent, pure, clean, honest and trustworthy—the way of Life Choice®.
- Thyrodine® Thyromoto is legally sold in Canada (only by Life Choice) with an NPN 80103792.

References:

- Feller M, et al. 2018. Association of thyroid hormone therapy with quality of life and thyroid related symptoms in patients with subclinical hypothyroidism: A systematic review and meta analysis. *JAMA* 2018; 320:1349-1359.
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