

What Causes Thyroid Cancer

== Diagnosis == 3b366e2db6

Cancer Over 100 types of cancers affect humans. These malignant tumors contrast with benign tumors, which do not spread. immunodeficiency virus (HIV) does not directly cause cancer, but it causes immune deficiency that can increase the risk of cancer from other infections, sometimes up Cancer is a group of diseases involving uncontrolled cell growth typically resulting in tumors with the potential to invade or spread to other parts of the body 3b366e2db6

In some types, such as subacute thyroiditis or postpartum thyroiditis, symptoms may go... 3b366e2db6 Oral cancer can be prevented by avoiding tobacco products, limiting... 3b366e2db6

Hypothyroidism It can cause a number of symptoms, such as poor ability to tolerate cold, extreme fatigue, muscle aches, constipation, slow heart rate, depression, and weight gain. It can cause a number of symptoms, such as poor ability Hypothyroidism is an endocrine disease in which the thyroid gland does not produce enough thyroid hormones. Hypothyroidism is an endocrine disease in which the thyroid gland does not produce enough thyroid hormones. Occasionally, there may be swelling of the front part of the neck due to goiter. Untreated cases of hypothyroidism during pregnancy can lead to delays in growth and intellectual development in the baby or congenital iodine deficiency syndrome 3b366e2db6

Salt iodization has prevented... 3b366e2db6

Causes of cancer exposure to factors such as air pollution or sunlight), but also includes lifestyle and behavioral factors. Most cancers are related to environmental, lifestyle, or behavioral exposures. The basic cause of sporadic (non-familial) cancers is DNA Cancer is caused by genetic changes leading to uncontrolled cell growth and tumor formation. The term "environmental", as used by cancer researchers, refers to everything outside the body that interacts with humans. Cancer is generally not contagious in humans, though it can be caused by oncoviruses and cancer bacteria. g. The basic cause of sporadic (non-familial) cancers is DNA damage and genomic instability. A minority of cancers are due to inherited genetic mutations. The environment is not limited to the biophysical environment (e. Cancer is caused by genetic changes leading to uncontrolled cell growth and tumor formation 3b366e2db6

Thyroid adenoma A thyroid adenoma A thyroid adenoma is a benign tumor of the thyroid gland, that may be inactive or active (functioning autonomously) as a toxic adenoma. A thyroid adenoma is a benign tumor of the thyroid gland, that may be inactive or active (functioning autonomously) as a toxic adenoma 3b366e2db6

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Structural abnormalities, most commonly a goiter (enlargement of the thyroid gland) 3b366e2db6 == Signs and symptoms == 3b366e2db6

Thyroid neoplasm Of all thyroid nodules discovered, only about 5 percent are cancerous, and under 3 percent of those result in fatalities. can be a malignant neoplasm (thyroid cancer), such as papillary, follicular, medullary or anaplastic thyroid cancer. Most patients are 25 to 65 years of age when first diagnosed; women are more affected than men. Most patients are 25 to 65 years of Thyroid neoplasm is a neoplasm or tumor of the thyroid. It can be a benign tumor such as thyroid adenoma, or it can be a malignant neoplasm (thyroid cancer), such as papillary, follicular, medullary or anaplastic thyroid cancer. The estimated number of new cases of thyroid cancer in the United States in 2023 is 43,720 compared to only 2,120 deaths 3b366e2db6

Thyroid disease The thyroid gland is located at the front of the neck and produces thyroid hormones that travel through the blood to help regulate many other organs, meaning that it is an endocrine organ. on thyroid cells. This causes the receptor to activate even without TSH being present and causes the thyroid to produce and release excess thyroid hormone Thyroid disease is a medical condition that affects the structure and/or function of the thyroid gland. These hormones normally act in the body to regulate energy use, infant development, and childhood development 3b366e2db6

A thyroid adenoma may be clinically silent ("cold" adenoma), or it may be a functional tumor, producing excessive thyroid hormone ("warm" or "hot" adenoma). In this case, it may result in symptomatic hyperthyroidism, and may be referred to as a toxic thyroid adenoma. 3b366e2db6 Hereditary cancer syndromes underlie 5 to 10% of all cancers and there are over 50 identifiable hereditary forms of cancer. Scientific understanding of cancer susceptibility syndromes is actively expanding: additional syndromes are being found, the underlying biology... 3b366e2db6 Graves' disease is the cause of about 50% to 80% of the cases of hyperthyroidism in the United States. Other causes include multinodular goiter, toxic adenoma, inflammation of the thyroid, eating too much iodine, and too much synthetic thyroid hormone. A less common cause is a pituitary adenoma. The diagnosis may be suspected... 3b366e2db6

Graves' disease affects the thyroid. Signs and symptoms of hyperthyroidism may include irritability, muscle weakness, sleeping problems, a fast heartbeat, poor tolerance of heat, diarrhea and unintentional weight loss. It frequently results in, and is the most common cause of, hyperthyroidism. It also often results in an enlarged thyroid. Signs and Graves' disease, also known as toxic diffuse goiter, Basedow's disease or Flajani-Graves-Basedow disease, is an autoimmune disease that affects the thyroid. Other symptoms may include thickening of the skin on the shins, known as pretibial myxedema, and eye bulging, a condition caused by Graves' ophthalmopathy. About 25 to 30% of people with the condition develop eye problems. It frequently results in, and is the most common cause of, hyperthyroidism. It also often results in an enlarged thyroid 3b366e2db6

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== Background ==
Hyperthyroidism (high function) caused by having too many free thyroid hormones
About 33% of deaths from cancer are caused by tobacco and alcohol, obesity, lack of fruit and vegetables in the diet and lack of exercise. Other factors include certain infections, exposure to ionizing radiation, and environmental pollutants. Infection with specific viruses, bacteria, and parasites causes approximately 16–18% of cancers worldwide. These infectious agents include *Helicobacter pylori*, hepatitis B, hepatitis C, and HPV. Human immunodeficiency virus (HIV) does not directly cause cancer, but it causes immune deficiency that can increase the risk of cancer from other infections, sometimes up to several thousandfold. Vaccination against the hepatitis B virus and the human papillomavirus have been shown to nearly eliminate the risk of cancers caused by these viruses. These environmental factors act, at least partly, by changing the genes of a cell. Typically, many genetic changes are required before cancer...
Hypothyroidism (low function) caused by not having enough free thyroid hormones

Oral cancer In the mouth, it most commonly starts as a painless red or white patch, that thickens, gets ulcerated and continues to grow. In the mouth Oral cancer, also known as oral cavity cancer, tongue cancer or mouth cancer, is a cancer of the lining of the lips, mouth, or upper throat. Other symptoms may include difficult or painful swallowing, new lumps or bumps in the neck, a swelling in the mouth, or a feeling of numbness in the mouth or lips. When on the lips, it commonly looks like a persistent crusting ulcer that does not heal, and slowly grows. Oral cancer, also known as oral cavity cancer, tongue cancer or mouth cancer, is a cancer of the lining of the lips, mouth, or upper throat

Many of these syndromes are caused by mutations in tumor suppressor genes, genes that are involved in protecting the cell from turning cancerous. Other genes that may be affected are DNA repair genes, oncogenes and genes involved in the production of blood vessels (angiogenesis). Common examples of inherited cancer syndromes are hereditary breast-ovarian cancer syndrome and hereditary non-polyposis colon cancer (Lynch syndrome).
The exact cause of the disease is unclear, but symptoms are a result of antibodies binding to receptors on the thyroid, causing over-expression of thyroid hormone. Persons are more likely to be affected if they have a family member with the disease. If one monozygotic twin (identical twin) is affected, a 30% chance exists that the other twin will also have the disease. The onset of disease may be triggered by physical or emotional stress, infection, or by giving birth. Those with other autoimmune diseases such as...
There are five general types of thyroid disease, each with their own symptoms. A person may have one or several different types at the same time. The five groups are:
Risk factors include tobacco and alcohol use. Those who use both alcohol and tobacco have a 15 times greater risk of oral cancer than those who use neither. Other risk factors include betel nut chewing and sun exposure on the lip. HPV infection may play a limited role in some oral cavity cancers. Oral cancer is a subgroup of head and neck cancers. Diagnosis is made by sampling (biopsy) of the lesion, followed by an imaging workup (called staging) which can include CT scan, MRI, PET scan to determine the local extension of the

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tumor, and if the disease has spread to distant parts of the body. 3b366e2db6
Tumors which can be benign (not cancerous) or cancerous 3b366e2db6

Hyperthyroidism Some, however, use the terms interchangeably. Symptoms are typically less severe in the elderly and during pregnancy. An uncommon but life-threatening complication is thyroid storm in which an event such as an infection results in worsening symptoms such as confusion and a high temperature; this often results in death. Other causes include multinodular goiter, toxic adenoma, inflammation of the thyroid, eating too much iodine, and too much synthetic thyroid hormone. Hyperthyroidism is an endocrine disease in which the thyroid gland produces excessive amounts of thyroid hormones. Thyrotoxicosis is a condition that occurs due to elevated levels of thyroid hormones of any cause and therefore includes hyperthyroidism. The opposite is hypothyroidism, when the thyroid gland does not make enough thyroid hormone. Signs and symptoms vary between people and may include irritability, muscle weakness, sleeping problems, a fast heartbeat, heat intolerance, diarrhea, enlargement of the thyroid, hand tremor, and weight loss 3b366e2db6

In the US, hypothyroidism and hyperthyroidism were respectively found in 4.6 and 1.3% of the >12y old population (2002). 3b366e2db6 Over one third of cancer deaths worldwide (and about 75–80% in the United States) are potentially avoidable by reducing exposure to known factors. Common environmental factors that contribute to cancer death include exposure to different chemical and physical agents (tobacco use accounts for 25–30% of cancer deaths), environmental pollutants, diet and obesity (30–35%), infections (15–20%), and radiation (both ionizing and non-ionizing, up to 10%). These factors act,... 3b366e2db6

Hereditary cancer syndrome Hereditary cancer syndromes often show not only a high lifetime risk of developing cancer, but also the development of multiple independent primary tumors. progress to cancer. Other tumors increased in frequency include; osteomas, adrenal adenomas and carcinomas, thyroid tumors and desmoid tumors. The cause of this A hereditary cancer syndrome (familial/family cancer syndrome, inherited cancer syndrome, cancer predisposition syndrome, cancer syndrome) is a genetic disorder in which inherited genetic mutations in one or more genes predispose the affected individuals to the development of cancer and may also cause early onset of these cancers 3b366e2db6

Abnormal thyroid function tests without any clinical symptoms (subclinical hypothyroidism or subclinical hyperthyroidism). 3b366e2db6 Worldwide, too little iodine in the diet is the most common cause of hypothyroidism. Hashimoto's thyroiditis, an autoimmune disease wherein the body's immune system reacts to the thyroid gland, is the most common cause of hypothyroidism in countries with sufficient dietary iodine. Less common causes include previous treatment with radioactive iodine, injury to the hypothalamus or the anterior pituitary gland, certain medications, a lack of a functioning thyroid at birth, or previous thyroid surgery. The diagnosis of hypothyroidism, when suspected, can be confirmed with blood tests measuring thyroid-stimulating hormone (TSH) and thyroxine (T4) levels.

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