

## Chronic thyroiditis (Hashimoto disease)

### Definition

Chronic thyroiditis is caused by a reaction of the immune system against the thyroid gland. It often results in reduced thyroid function (hypothyroidism).

The disorder is also called Hashimoto disease.

The thyroid gland is located in the neck, just above where your collarbones meet in the middle.

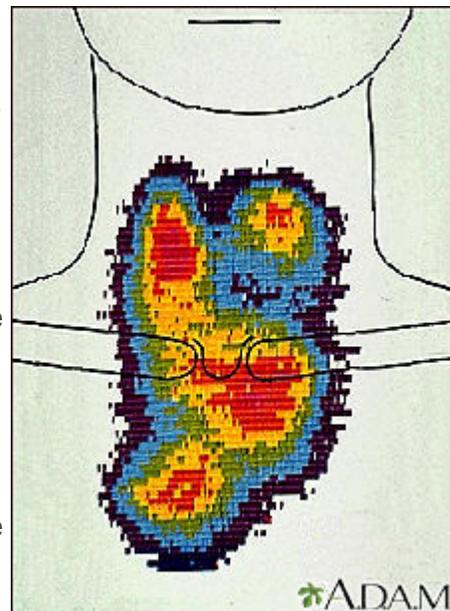
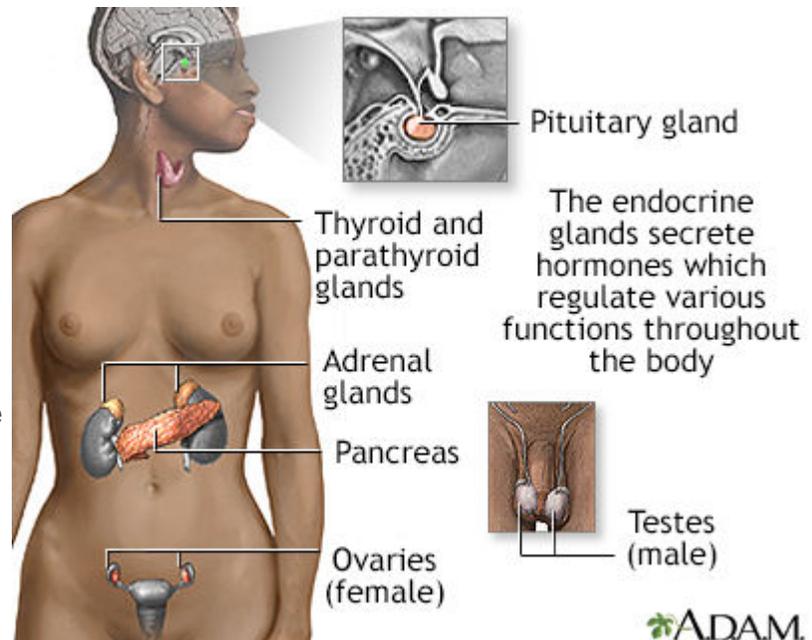
### Causes

Hashimoto disease is a common thyroid gland disorder. It can occur at any age, but is most often seen in middle-aged women. It is caused by a reaction of the immune system against the thyroid gland.

The disease begins slowly. It may take months or even years for the condition to be detected and for thyroid hormone levels to become lower than normal. Hashimoto disease is most common in people with a family history of thyroid disease.

In rare cases, the disease may be related to other hormone problems caused by the immune system. It can occur with poor adrenal function and type 1 diabetes. In these cases, the condition is called type 2 polyglandular autoimmune syndrome (PGA II).

Rarely (usually in children), Hashimoto disease occurs as part of a condition called type 1



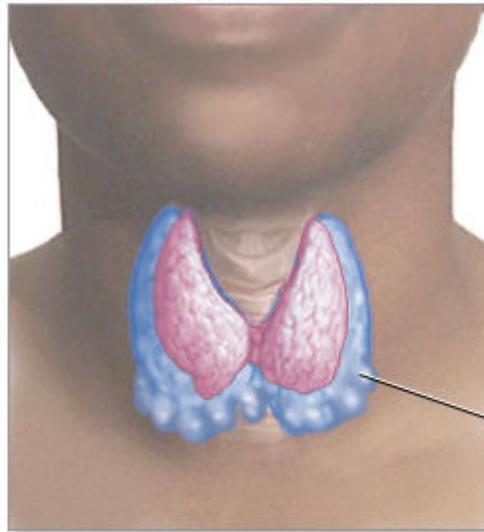
syndrome (PGA I), along with:

- Poor function of the adrenal glands
- Fungal infections of the mouth and nails
- Underactive parathyroid gland

### Symptoms

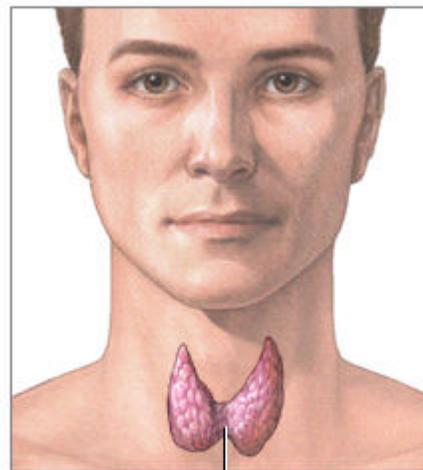
Symptoms of Hashimoto disease may include any of the following:

- Constipation
- Difficulty concentrating or thinking
- Dry skin
- Enlarged neck or presence of goiter, which may be the only early symptom
- Fatigue
- Hair loss
- Heavy or irregular periods
- Intolerance to cold
- Mild weight gain
- Small or shrunken thyroid gland (late in the disease)



Enlarged, inflamed underactive thyroid (goiter)

ADAM.



Thyroid

ADAM.

### Exams and Tests

Laboratory tests to determine thyroid function include:

- Free T4 test
- Serum TSH
- Total T3
- Thyroid autoantibodies

Imaging studies and fine needle biopsy are generally not needed to diagnose Hashimoto thyroiditis.

This disease may also change the results of the following tests:

- Complete blood count

- Serum sodium
- Total cholesterol

Untreated hypothyroidism can change how your body uses medicines that you may take for other conditions, such as epilepsy. You'll likely need to have regular blood tests to check the levels of the medicines in your body.

### Treatment

If you have findings of an underactive thyroid, you may receive thyroid replacement medicine.

Not everyone with thyroiditis or goiter has low levels of thyroid hormone. You may just need regular follow-up by a health care provider.

### Outlook (Prognosis)

The disease stays stable for years. If it does slowly progress to thyroid hormone deficiency (hypothyroidism), it can be treated with hormone replacement therapy.

### Possible Complications

This condition can occur with other autoimmune disorders. In rare cases, thyroid cancer or thyroid lymphoma may develop.

Severe untreated hypothyroidism can lead to a change in consciousness, coma, and death. This usually occurs if people get an infection, are injured, or take medicines, such as opioids.

### When to Contact a Medical Professional

Call your provider if you develop symptoms of chronic thyroiditis or hypothyroidism.

### Prevention

There is no known way to prevent this disorder. Being aware of risk factors may allow earlier diagnosis and treatment.

Hashimoto thyroiditis; Chronic lymphocytic thyroiditis; Autoimmune thyroiditis; Chronic autoimmune thyroiditis; Lymphadenoid goiter - Hashimoto; Hypothyroidism - Hashimoto; Type 2 polyglandular autoimmune syndrome - Hashimoto; PGA II - Hashimoto

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