

# Thymus Cancer Causes, Risk Factors, and Prevention

Learn about the risk factors for thymus cancer and if there are things you can do that might lower your risk.

### **Risk Factors**

A risk factor is anything that affects your chance of getting a disease such as cancer. Learn more about the risk factors for thymus cancer.

- What Are the Risk Factors for Thymus Cancer?
- Do We Know What Causes Thymus Cancer?

### Prevention

Because we do not know what causes most thymic cancers, it is not yet possible to know how to prevent them.

• Can Thymus Cancer Be Prevented?

# What Are the Risk Factors for Thymus Cancer?

No specific inherited, environmental, or lifestyle risk factors have been strongly linked to thymoma or thymic carcinoma. Some studies have suggested a possible link with exposure to radiation to the upper chest area, but this has not been confirmed.

• What is a risk factor?

Meneshian A, Oliver KR, Molina JR. Clinical presentation and management of thymoma

# Do We Know What Causes Thymus Cancer?

- hanges in genes that normally help cells • ese genes being more active than they s ncogenes. These genes can result in cells growing out of control.
- enes that normally help keep cell division under control or cause cells to die at the ght time are known as **tumor suppressor genes**. Changes that turn off these enes can result in cells growing out of cor

 Some genes normally help repair mistakes in a cell's DNA. Changes that turn off these **DNA repair genes** can result in the buildup of DNA changes within a cell, which might lead to them growing out of control.

Any of these types of DNA changes might lead to cells growing out of control and forming a tumor. To learn more, see Oncogenes, Tumor Suppressor Genes, and DNA Repair Genes<sup>1</sup>.

#### Inherited versus acquired gene mutations

People have 2 copies of each gene in their cells. One copy comes from each parent.

Some people inherit

## **Hyperlinks**

1. <u>www.cancer.org/cancer/understanding-cancer/genes-and-cancer/oncogenes-</u> <u>tumor-suppressor-genes.html</u>

#### References

National Cancer Institute. Thymoma and Thymic Carcinoma Treatment (PDQ®)–Health Professional Version. 2024. Accessed atwww.cancegov/t(Hys/t Thymo/hp/t Thymo-t Treatme-pdq on C

# **Can Thymus Cancer Be Prevented?**

Professional Version. 2024. Accessed at