

[Home](#) > [Types of Cancer](#) > [Germ Cell Tumor - Childhood](#) > [Germ Cell Tumor - Childhood - Treatment Options](#)

PDF generated on July 22, 2016 from

<http://www.cancer.net/cancer-types/germ-cell-tumor-childhood/treatment-options>

[Germ Cell Tumor - Childhood - Treatment Options](#) [1]

This section has been reviewed and approved by the [Cancer.Net Editorial Board](#) [2], 03/2016

ON THIS PAGE: You will learn about the different ways doctors use to treat children with this type of tumor. To see other pages, use the menu.

In general, a tumor in a child is uncommon. This means it can be hard for doctors to plan treatments unless they know what has been most effective in other children. That is why more than 60% of children with cancer are treated as part of a clinical trial. Clinical trials are research studies that compare the standard of care with newer approaches to treatments that may be more effective. The “standard of care” is the best treatments known. Clinical trials may test such approaches as a new drug, a new combination of standard treatments, or new doses of current therapies. The health and safety of all children participating in clinical trials are closely monitored.

To take advantage of these newer treatments, children with a germ cell tumor should be treated at a specialized cancer center. Doctors at these centers have extensive experience in treating children and have access to the latest research. A doctor who specializes in treating children with cancer is called a pediatric oncologist. If a pediatric cancer center is not nearby, general cancer centers sometimes have pediatric specialists who are able to be part of your child’s care.

Treatment overview

In many cases, a team of doctors works with a child and the family to provide care; this is called a [multidisciplinary team](#) [3]. Pediatric cancer centers often have extra support services for children and their families, such as child life specialists, dietitians, physical and occupational therapists, social workers, and counselors. Special activities and programs to help your child and family cope may also be available.

Descriptions of the most common treatment options for a germ cell tumor are listed below. Treatment options and recommendations depend on several factors, including the type and stage of tumor, possible side effects, and the patient's preferences and overall health. Your child's care plan may also include treatment for symptoms and side effects, an important part of cancer care. Take time to learn about all of your child's treatment options and be sure to ask questions about things that are unclear. Also, talk about the goal of each treatment with your child's doctor and what your child can expect while receiving the treatment. Learn more about [making treatment decisions](#) [4].

Surgery

The goal of surgery is to remove the tumor and some surrounding healthy tissue, known as a margin, in an effort to remove all tumor cells. The surgery may be performed by a surgical oncologist, a doctor who specializes in treating tumors using surgery. Some patients with germ cell tumors can be treated with surgery alone, including boys with a [testicular germ cell tumor](#) [5] and girls with an ovarian germ cell tumor that is completely removed by surgery. For ovarian tumors, this can also be treated with surgery alone.

Talk with your child's doctor about the possible side effects of the specific surgery your child is having and how they will be managed. Learn more about the basics of [cancer surgery](#) [6].

Chemotherapy

Chemotherapy is the use of drugs to destroy tumor cells, usually by stopping the tumor cells' ability to grow and divide. Chemotherapy is given by a pediatric or medical oncologist, a doctor who specializes in treating a tumor with medication.

Systemic chemotherapy gets into the bloodstream to reach cancer cells throughout the body. Common ways to give chemotherapy include an intravenous (IV) tube placed into a vein using a needle or in a pill or capsule that is swallowed.

A chemotherapy regimen, your child's treatment schedule, usually consists of a specific number of cycles given over a set period of time. A patient may receive 1 drug at a time or combinations of different drugs at the same time. Most patients with a cancerous germ cell tumor will need chemotherapy.

The drugs that are commonly used for treating germ cell tumors include bleomycin (Blenoxane), cisplatin (Platinol), and etoposide (VePesid, Toposar).

The side effects of chemotherapy depend on the individual and the dose used, but they can include fatigue, risk of infection, nausea and vomiting, hair loss, loss of appetite, and diarrhea. These side effects usually go away once treatment is finished.

Learn more about the basics of [chemotherapy](#) [7] and [preparing for treatment](#) [8]. The medications used to treat germ cell tumors are continually being evaluated. Talking with your

child's doctor is often the best way to learn about the medications prescribed for your child, their purpose, and their potential side effects or interactions with other medications. Learn more about your prescriptions by using [searchable drug databases](#) [9].

Getting care for symptoms and side effects

A tumor and its treatment often cause side effects. In addition to treatment to slow, stop, or eliminate the tumor, an important part of care is relieving a child's symptoms and side effects. This approach is called palliative or supportive care, and it includes supporting the patient with his or her physical, emotional, and social needs.

Palliative care is any treatment that focuses on reducing symptoms, improving quality of life, and supporting patients and their families. Any person, regardless of age or type and stage of cancer, may receive palliative care. It works best when palliative care is started as early as needed in the treatment process. People often receive treatment for the tumor and treatment to ease side effects at the same time. In fact, people who receive both often have less severe symptoms, better quality of life, and report they are more satisfied with treatment.

Palliative treatments vary widely and often include medication, nutritional changes, relaxation techniques, emotional support, and other therapies. Your child may also receive palliative treatments similar to those meant to eliminate the cancer, such as chemotherapy, or surgery. Talk with your child's doctor about the goals of each treatment in the treatment plan.

Before treatment begins, talk with your child's health care team about the possible side effects of your child's specific treatment plan and palliative care options. And during and after treatment, be sure to tell the doctor or another health care team member if your child is experiencing a problem so it can be addressed as quickly as possible. Learn more about [palliative care](#) [10].

Remission and chance of recurrence

A remission is when a tumor cannot be detected in the body and there are no symptoms. This may also be called having "no evidence of disease" or NED.

A remission may be temporary or permanent. This uncertainty causes many people to worry that the cancer will come back. While many remissions are permanent, it is important to talk with your child's doctor about the possibility of the tumor returning. Understanding your risk of recurrence and the treatment options may help you feel more prepared if the tumor does return. Learn more about [coping with the fear of recurrence](#). [11]

If the tumor does return after the original treatment, it is called recurrent tumor. It may come back in the same place, meaning it is a local recurrence, or nearby, which is a regional recurrence. If it comes back in another place, it is a distant recurrence.

When this occurs, a cycle of testing will begin again to learn as much as possible about the

recurrence. After testing is done, your child's doctor will talk with you about treatment options. Often, the treatment plan will include the treatments described above, such as chemotherapy, but may be used in a different combination or given at a different pace. A recurrent tumor may be treated with carboplatin (Paraplat, Paraplatin, Becenum), ifosfamide (Cyfos, Ifex, Ifosfamidum), and paclitaxel (Taxol). [Bone marrow/stem cell transplantation](#) [12] or [radiation therapy](#) [13] may also be used. Your child's doctor may also suggest clinical trials that are studying new ways to treat this type of recurrent tumor. Whichever treatment plan you choose, palliative care will be important for relieving symptoms and side effects.

When a tumor recurs, patients and their families often experience emotions such as disbelief or fear. Families are encouraged to talk with their health care team about these feelings and ask about support services to help them cope. Learn more about [dealing with recurrence](#) [11].

If treatment fails

Although treatment is successful for the majority of children with a germ cell tumor, sometimes it is not. If a child's tumor cannot be cured or controlled, this is called advanced or terminal. This diagnosis is stressful, and advanced disease may be difficult to discuss. However, it is important to have open and honest conversations with your child's doctor and health care team to express your family's feelings, preferences, and concerns. The health care team is there to help, and many team members have special skills, experience, and knowledge to support patients and their families.

Parents or guardians are encouraged to think about where the child would be most comfortable: at home, in a home-like setting elsewhere, in the hospital, or in a hospice environment. Hospice care is a type of palliative care for people who are expected to live less than 6 months. It is designed to provide the best possible quality of life for people who are near the end of life. Nursing care and special equipment can make staying at home a workable alternative for many families.

Some children may be happier if they can arrange to attend school part-time or keep up other activities and social connections. The child's health care team can help parents or guardians decide on an appropriate level of activity. Making sure a child is physically comfortable and free from pain is extremely important as part of end-of-life care. Learn more about [caring for a terminally ill child](#) [14] and [advanced care planning](#) [15].

The death of a child is an enormous tragedy, and families may need support to help them cope with the loss. Pediatric cancer centers often have professional staff and support groups to help with the process of grieving. Learn more on [grieving the loss of a child](#) [16].

The [next section in this guide is About Clinical Trials](#) [17]. It offers more information about research studies that are focused on finding better ways to care for people with a germ cell tumor. Or, use the menu to choose another section to continue reading this guide.

Links

- [1] <http://www.cancer.net/cancer-types/germ-cell-tumor-childhood/treatment-options>
- [2] <http://www.cancer.net/about-us>
- [3] <http://www.cancer.net/node/25356>
- [4] <http://www.cancer.net/node/24582>
- [5] <http://www.cancer.net/node/19666>
- [6] <http://www.cancer.net/node/24462>
- [7] <http://www.cancer.net/node/24723>
- [8] <http://www.cancer.net/node/24473>
- [9] <http://www.cancer.net/node/25369>
- [10] <http://www.cancer.net/node/25282>
- [11] <http://www.cancer.net/node/25241>
- [12] <http://www.cancer.net/node/24717>
- [13] <http://www.cancer.net/node/24728>
- [14] <http://www.cancer.net/node/25280>
- [15] <http://www.cancer.net/node/25113>
- [16] <http://www.cancer.net/node/25288>
- [17] <http://www.cancer.net/node/18890>