

ASCO ANSWERS

ACUTE LYMPHOCYTIC LEUKEMIA

WHAT IS ACUTE LYMPHOCYTIC LEUKEMIA?

Acute lymphocytic leukemia (ALL) is a cancer of the lymphocytes, a type of white blood cell involved in the body's immune system. Also called acute lymphoid leukemia or acute lymphoblastic leukemia, ALL begins and worsens quickly. Patients with ALL usually need immediate treatment.

WHAT IS THE FUNCTION OF LYMPHOCYTES?

Lymphocytes fight disease and infection. The three types of lymphocytes—B cells, T cells, and natural killer cells—are found in the bone marrow (spongy tissue inside of bones), blood, lymph nodes, and spleen. In people with ALL, lymphoblasts (lymphocytes that do not mature) replace healthy lymphocytes and crowd other important cells in the bone marrow. Lymphoblasts can collect in a person's lymphatic tissues and spread to other organs, including the brain, liver, spleen, or a man's testicles. The B-cell subtype is the most common.

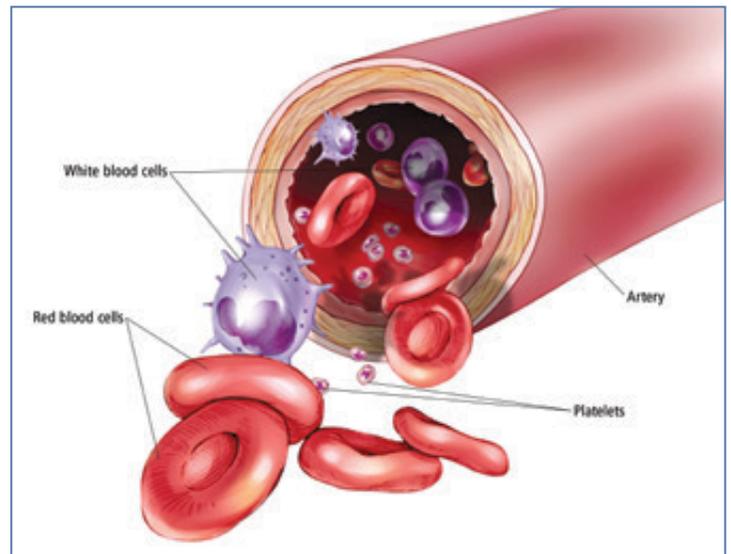


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Find additional cancer information at www.cancer.net.

WHAT DOES CLASSIFICATION MEAN?

To help plan treatment and predict prognosis, doctors classify ALL based on whether B-cell or T-cell lymphocytes are affected. ALL is also classified as newly diagnosed and untreated, in remission (blood counts are back to normal after the patient received treatment), recurrent (disease that has come back after treatment), or refractory (disease that has not responded to treatment). More information is available at www.cancer.net/all.

HOW IS ACUTE LYMPHOCYTIC LEUKEMIA TREATED?

The treatment of ALL depends on the subtype, classification, possible side effects, and the patient's preferences and overall health. Many subtypes of ALL can be cured with treatment. The type and specific genetic features of the ALL and the patient's age affect how well treatment works. Chemotherapy with several drugs may be given during different stages of treatment to destroy cancer cells. In some cases, targeted therapy directed against genes or proteins that contribute to cancer growth is used. Radiation therapy is sometimes used to destroy cancerous cells around the brain and spinal column. A stem cell transplant may also be a treatment option. When making treatment decisions, people may consider a clinical trial; talk with your doctor about all treatment options. The side effects of ALL treatment can often be prevented or managed with the help of your health care team. This is called supportive care and is an important part of the overall treatment plan.

HOW CAN I COPE WITH ACUTE LYMPHOCYTIC LEUKEMIA?

Absorbing the news of a cancer diagnosis and communicating with your doctor are key parts of the coping process. Seeking support, becoming organized, and considering a second opinion are other steps. Take care of yourself during this time. Understanding your emotions and those of people close to you can be helpful in managing the diagnosis, treatment, and healing process.

QUESTIONS TO ASK THE DOCTOR

Regular communication is important in making informed decisions about your health care. Consider asking the following questions of your health care team:

- What subtype of ALL has been diagnosed?
- Can you explain my pathology report (laboratory test results) to me?
- Would you explain my treatment options? What clinical trials are open to me?
- What treatment plan do you recommend? Why?
- What is the goal of each treatment? Is it to eliminate the leukemia, help me feel better, or both?
- Who will be part of my treatment team, and what does each member do?
- How will this treatment affect my daily life? Will I be able to work, exercise, and perform my usual activities?
- Will this treatment affect my ability to become pregnant or have children?
- What long-term side effects may be associated with my treatment plan?
- What follow-up tests will I need, and how often will I need them?
- If I'm worried about managing the costs related to my cancer care, who can help me with this concern?
- Where can I find emotional support for me and my family?
- Whom should I call for questions or problems?

Additional questions to ask the doctor can be found at www.cancer.net/all.



Doctor-Approved Patient Information from ASCO[®]

For more information, visit ASCO's patient website, www.cancer.net, or call 888-651-3038.

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TERMS TO KNOW

Bone marrow biopsy:

Removal and analysis of a bone marrow sample from the center of the bones

Chemotherapy:

The use of drugs to destroy cancer cells

Clinical trial:

A research study that tests a new treatment or drug

Cytogenetics:

Analysis of a cell's chromosomes

Flow cytometry and cytochemistry:

Blood tests used to identify the subtype of ALL

Hematologist:

A doctor who specializes in treating blood disorders

Leukemia:

A cancer of the blood

Lymph node:

A tiny, bean-shaped organ that fights infection

Oncologist:

A doctor who specializes in treating people with cancer

Prognosis:

Chance of recovery

Radiation therapy:

The use of high-energy x-rays to destroy cancer cells

Remission:

The absence of any signs or symptoms of disease

Stem cell transplant:

Procedure that replaces diseased bone marrow with healthy stem cells that create new bone marrow