

Ready to start planning your care? Call us at [800-525-2225](tel:800-525-2225) to make an appointment.

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Memorial Sloan Kettering  
Cancer Center

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of cells and the amounts of different types of blood cells in circulation, changes in the bone marrow, or specific alterations in the genetic and molecular makeup of the diseased cells.

Tests we may recommend include:

cytogenetic studies to look for chromosomal changes in cells

immunohistochemistry studies, in which antibodies are used to distinguish between types of cancer cells

flow cytometry, which involves passing cells through a laser beam for analysis

molecular genetic studies, which are highly sensitive DNA and RNA tests to determine specific genetic traits of cancer cells

## New Patient Appointments

Call [646-497-9154](tel:646-497-9154)

Available Monday through Friday, 8:00 a.m. - 6:00 p.m. (Eastern time)

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In order to do these tests, physicians need to collect blood and tissue samples. There are several procedures that allow them to obtain these samples.

## Leukemia and Other Blood Cancers in Kids

Looking for information about diagnosing and treating leukemia in children, adolescents, and young adults?

[Learn more](#)

Blood Tests

+

Bone Marrow Aspiration & Biopsy

+

Lumbar Puncture

+

## Additional Tests & Procedures

Doctors sometimes use imaging tests including chest x-rays, ultrasound, CT scans, MRI, and PET scans to determine whether leukemia cells have affected the bones or organs such as the kidneys, the brain, or the lymph nodes.

In addition, a physical exam is an important part of diagnosis for leukemia. Your doctor will check the lymph nodes, spleen, and liver because leukemic cells can accumulate in these spots and cause swelling.

Subtypes of Acute Lymphocytic Leukemia

+

Subtypes of Acute Myeloid Leukemia

+

Stages of Chronic Lymphocytic Leukemia

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Phases of Chronic Myeloid Leukemia

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PREVIOUS

[Clonal Hematopoiesis \(CH\)](#)

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[Treatment for Leukemia](#)

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