

YOUR AML NAVIGATOR

Resource Guide



THE ROLE OF GENETIC TESTING IN AML

- Identifies genetic mutations.
 - Determines your specific AML subtype.
 - Provides insight into your risk and disease prognosis.
 - Informs and personalizes your treatment options.
 - Monitors your treatment response and assesses the effectiveness of therapy.
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TYPES OF GENETIC TESTS IN AML

- Cytogenetic Analysis (or Karyotyping)
 - Fluorescence in situ Hybridization (FISH test)
 - Molecular Testing, which includes:
 - Polymerase Chain Reaction (PCR)
 - DNA Sequencing
 - Next-Generation Sequencing
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COMMON BIOMARKERS IN AML

FLT3 (Fms-Like Tyrosine Kinase) Mutation:	This gene mutation occurs in approximately 30 percent of AML patients.
IDH (Isocitrate Dehydrogenases) Mutation	Mutations in IDH1 or IDH2 are detected in approximately 20 percent of patients with AML.
NPM1 (Nucleophosmin-1) Mutation	The most common molecular mutation identified in adult AML.
TP53 (Tumor Protein 53)	A gene that helps stop the growth of tumors. TP53 is the most frequently mutated gene in human tumors. TP53 mutation rates are low in AML.

TAKE ACTION

- Make sure you see an AML specialist.
 - Discuss which tests you should undergo with your doctor.
 - Review the results with your doctor
 - Do your own research on the findings.
 - Work with your healthcare team to determine a personalized treatment plan for your AML.
 - Ask your doctor when you should be re-tested
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TARGETED THERAPY

Targeted Therapies block the growth of cancer by interfering with specific molecules involved in the progression and spread of cancer. Targeted therapies include a class of treatment called **Inhibitors**.

FDA-Approved AML Inhibitor Therapies include:

- **FLT3 Inhibitors:** Midostaurin (Rydapt); Gilteritinib (Xospata); Sorafenib (Nexavar)
- **IDH Inhibitors:** Enasidenib (Idhifa); Ivosidenib (Tibsovo)

FDA-Approved Novel Inhibitor Therapies are used across all mutational subtypes of AML include:

- **BCL-2 Inhibitors:** Venetoclax (Venetoclax)
- **Hedgehog Inhibitors:** Glasdegib (Daurismo)