

# TREATMENT APPROACHES IN AML: KEY TESTING FOR PERSONALIZED CARE



*INSIST! AML*

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## KEY TESTS FOLLOWING AN AML DIAGNOSIS

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### **Bone Marrow Biopsy to Assess Bone Marrow Blasts:**

- Doctors measure the percentage of blasts in marrow cells when making a diagnosis.
- Blasts are young abnormal white blood cells in the bone marrow.

### **Genetic Testing (Molecular Profiling) to:**

- Identify chromosomal abnormalities.
- Identify gene mutations associated with AML. Common AML mutations include:
  - FLT3
  - IDH1
  - IDH2
  - NPM1
  - TP53

Additional AML mutations with prognostic value include:

- ASXL1
- DNMP3A
- RUNX1

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## IMPORTANT QUESTIONS TO ASK YOUR DOCTOR

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- What type of leukemia do I have, and what is the bone marrow blast percentage?
- Do I have any mutations or chromosomal abnormalities?
- Are there any specific treatments for my AML?
- Do I have a choice between a high-intensity or low-intensity therapy?
  - What are the pros and cons of each treatment?

**View Treatment Approaches in AML: Key Testing for Personalized Care [here](#).**

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## GLOSSARY OF TERMS

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**Bone Marrow Biopsy:** Procedure that involves collecting a small sample of bone marrow, usually from the hip bone, in order to be examined by a laboratory. This procedure is used to confirm a diagnosis and may be used to monitor the disease over time.

**Differentiation Syndrome:** A side effect that usually occurs within 1 to 2 weeks after starting cancer treatment but can occur later.

**FLT3 Mutation:** FLT3 stands for Fms-like tyrosine kinase. This gene mutation occurs in approximately 30 percent of AML patients.

**Gene Mutation:** A permanent change in the DNA sequence that makes up a gene. Changes can occur due to mistakes when the DNA is copied or as the result of environmental factors.

**Genetic Testing (Molecular Profiling):** Laboratory testing that identifies certain genes, proteins, or other molecules in a sample of tissue, blood or other body fluid. In cancer, it may also be used to evaluate treatment or make a prognosis.

**IDH (Isocitrate Dehydrogenases) Mutations:** Mutations in IDH1 or IDH2 are detected in approximately 20 percent of patients with acute myeloid leukemia (AML).

**NPM1 (Nucleophosmin-1) Mutation:** The most common gene mutation identified in adult AML.