Hind cures. SAVE LIVES.

Transplant and Acute Myeloid Leukemia (AML)

Learning more about you or your child's ("your") treatment options can help you make informed medical decisions.

This fact sheet tells you:

- What AML is
- What the transplant steps are
- When to see a transplant doctor
- Questions to ask your doctor

What is AML?

AML is a fast-growing blood cancer. In AML, your body makes unhealthy blood-forming cells (stem cells). The unhealthy cells don't work properly and they grow quickly in your bone marrow (soft, spongy tissue inside your bones). Then, your marrow can't make healthy red blood cells, white blood cells and platelets. With fewer healthy blood cells, your body can't fight infections or stop bleeding very well.

What is a blood or marrow transplant (BMT)?

BMT, also called bone marrow transplant, replaces your unhealthy blood-forming cells with healthy ones. Transplant is not surgery.

BMT can treat AML. For some people, transplant cures the disease. For others, it delays relapse (the disease coming back).

The type of transplant that treats AML is called an allogeneic transplant. It uses healthy blood-forming cells donated by someone else to replace the unhealthy ones. The donated cells can come from a family member, someone unrelated to you, or umbilical cord blood.

Allogeneic transplant steps

- First, your doctor searches for your donor. This can take weeks to months.
- 2. Then, you get chemotherapy, and possibly radiation to kill the unhealthy cells. This can take up to 2 weeks.
- On transplant day, the donated cells are given to you through an intravenous (IV) infusion. The new cells travel to the inside of your bones.
- 4. After a few weeks, the donated cells begin to make healthy blood cells.
- 5. Then, you'll need many months to recover. You'll spend some of this time in or near the hospital.

Doctors, nurses and social workers will closely care for you during the entire process to prevent and treat any side effects or complications.

When to see a transplant doctor

You should see a transplant doctor right away if:

- The AML is in first complete remission (no signs of disease) unless it has a low risk of coming back
- You had a disease such as myelodysplastic syndrome (MDS) that became AML
- The AML was caused by another treatment, such as chemotherapy for another disease
- The initial chemotherapy doesn't lead to remission (no signs of disease)
- The AML comes back 1 or more times after treatment
- Your child is under the age of 2 years when diagnosed



Even if you don't need a transplant right away, it's important to see a transplant doctor early. Most patients have a better chance of a cure if they have a transplant in the early stage of AML.

At your first appointment, the transplant doctor will:

- Review your medical history
- Talk with you about your treatment options and their risks and benefits
- Start searching for a donor even if you don't need a transplant right away. This could help you get a transplant faster if it's needed later.

Learn about your risk for relapse

Doctors do cytogenetic and molecular testing to see how likely it is that the AML will come back (relapse). This means they look at the chromosomes and genes in the unhealthy cells. Chromosomes and genes carry instructions that tell your body how to work.

Certain changes in the AML chromosomes and genes predict a lower risk of relapse. Others predict a higher risk. To do this testing, doctors study your blood and your bone marrow.

Ask your doctor for a copy of your cytogenetic and molecular test results and to explain what the results mean.

Questions to ask your doctor

- What are my chances of a cure or long-term remission if I get transplant? If I don't get a transplant?
- Does my health or age affect how well transplant might work for me?
- What do my cytogenetic and molecular markers mean for my treatment?
- What are the possible side effects of transplant? How are they treated?
- How will my quality of life change over time, with or without transplant?

Resources for you

Talk to someone who can help:

- Contact a BMT Patient Navigator:
 - Call: 1 (888) 999-6743
 - Email: <u>patientinfo@nmdp.org</u>

Order free resources to learn more. To see a full list, visit <u>BeTheMatch.org/request</u>.

Here are some that you might find helpful:

- VIDEO: *Basics of Blood and Marrow Transplant*
- BOOKLET: *Transplant Basics*
- BROCHURE: *Transplant Outcomes and Treatment Decisions*
- WORKSHEET: AML Treatment Conversation
 Guide

At every step, we're here to help

NMDPSM has a team dedicated to providing information and support to you before, during, and after transplant. You can contact our Patient Support Center to ask questions you may have about transplant, request professional or peer support, or receive free patient education materials.

Call: 1 (888) 999-6743 | Email: patientinfo@nmdp.org | Web: BeTheMatch.org/one-on-one



Every individual's medical situation: transplant experience, and recovery is unique. You should always consult with your own transplant team or family doctor regarding your situation. This information is not intended to replace, and should not replace, a doctor's medical judgment or advice.