

Instructions for Autologous MNC, Apheresis Collection



As part of your/your child's treatment plan, we will need to collect Peripheral mononuclear cell (MNC, Apheresis). This information will answer any questions you/your child may have about the collection process. It will also help you/your child care for yourself/themselves throughout the collection process. You/your child may ask questions at any time about this procedure.

Testing

Before the procedure, we will test the donor to see if they can donate. We do these tests to protect the health of the donor and the person getting the donation. Donor testing may include but is not limited to:

- Complete blood work with tests for disease
- Health history & physical

What is apheresis?

- Apheresis is a process that takes out blood and separates it into parts. The machine removes the cells we need, and gives the rest of the blood back to you/your child.
 - MNC, Apheresis are peripheral blood mononuclear cells. We get these cells by apheresis.

How do I care for myself or my child before the procedure?

- Do not use alcohol or tobacco for at least 2 to 3 days before you/your child donates.
- You/your child can take a multivitamin with iron to help your/your child's body make red blood cells and to not get anemia (low red blood cells) after collection.

What happens on the day of collection?

- Apheresis collections happen in our Infusion Center or on an inpatient unit. We place a temporary line so that the apheresis machine can connect to you/your child. Sometimes we use peripheral veins in the arms instead.
 - You/your child may take medicine to keep you/your child calm for when we add the temporary line.
- Do not eat or drink anything after midnight the day before the procedure.
- Before starting the collection, the Apheresis Team doctor will come see you/your child and have you/your child agree to the procedure. A licensed nurse will do the collection through an apheresis machine.
- You/your child's blood will go through the apheresis machine to take out and collect the stem cells. The procedure can take 4 to 6 hours to get enough cells. Plan to be here all day.
- At the end of the procedure, a medical staff member will see you/your child and will take blood samples. If you/your child do not need more collections, you/your child will be able to go home. If you/your child had a temporary line put in, we will take it out.

Transplantation and Cellular Therapy

Procedure risks

- We will watch you/your child during the whole procedure. We will check for any changes in vital signs, signs of an allergic reaction, or electrolyte abnormalities. We will give pre-medications to you/your child to prevent reactions.
- Bleeding and infection are possible but rare side effects. You/your child will take an anticoagulant (a medicine to stop the blood from clotting during collection). The apheresis team uses safe and clean steps for this process. It is common for the temporary line area to bleed, notify the Transplant Team if you/your child is bleeding a lot.

Call 911 for any serious emergency.

If you are an outpatient, you can call (323) 361-2546 on Monday through Friday, 8 a.m. to 5 p.m. You may need to leave a message. You can call the hospital number (323) 660-2450 during the evening, nighttime, and weekends or holidays. Ask for the doctor on-call (doctor who is there) for Transplantation and Cellular Therapy. They may ask you to leave a message with the page operator, and the doctor on-call will give you a call back as soon as they can. If you/your child is an inpatient, you may ask one of your care providers or doctors to see you/your child.

Disclosure

We will protect you/your child's medical information and privacy. If required and medically or administratively necessary, law and regulatory agencies may look at your or your child's health information.

Case histories, results of treatment, laboratory and pathologic data, photographs, and x-ray may be used and/or published for scientific purposes. If we use any information, we make sure to protect and do not share your or your child's identity. We will keep your or your child's privacy.

Use the information on this sheet with advice from healthcare providers at Children's Hospital Los Angeles. CHLA makes no warranties of any kind, expressed or implied, about MNC, Apheresis collection.