Bone Marrow Aspiration or Biopsy without Anesthesia

Purpose

Blood cells are produced mainly in the bone marrow. The marrow is the soft, spongy center part of the bone. Bone marrow aspiration and biopsy tests show how well the bone marrow is working. During a bone marrow aspiration, a sample of fluid with bone marrow cells is taken from the bone marrow. In a bone marrow biopsy, a small sample of solid bone core is removed. The sample is taken from the hipbone.

Preparation

- No special preparation is required. You may eat your normal diet.
- You may take your medicines as usual, but ask your clinic physician or physician assistant about any blood thinning medicines (blood thinners), including aspirin, before your procedure is scheduled. If you take these, you will be told when to stop taking them before the procedure. These drugs can cause bleeding or bruising at the site. Do not take your dose of this medicine before your procedure.
- Complete your lab work (CBC – complete blood count and PT – prothrombin time and PTT – partial thromboplastin time) within 48 hours before your procedure. Please make sure this is part of your procedure pre-workup schedule. (Labs done on the same day may delay your procedure).
- Report allergies or sensitivity to tape or anesthesia before your procedure.
- The nurse will review your allergies, any history of adverse drug reactions and any medicines you are taking before your procedure.

Procedure

- At the time of your appointment, report to the Bone Marrow Aspiration Clinic, Main Building, Floor 10, near Elevator C.
- After you check-in, your vital signs will be taken. You will lie on either your stomach or your side during the procedure.
- The aspiration site will be cleansed and numbed with a local anesthetic.
- A sample of bone marrow fluid will be aspirated (removed from the bone with a needle). You may feel quick discomfort during the aspiration. This is the bone marrow shift.
- If biopsy is ordered, a small “bone core” is then taken.
• You may be in the procedure area from 1 to 1½ hours.

**After the Procedure**

**Bleeding**
It is not unusual to have a small amount of bleeding after this procedure. However if you notice blood on your clothing, please do one of the following:
• If bleeding occurs while you are here at MD Anderson, apply pressure to the aspiration/biopsy site and return to the area where the test was done. The mid-level provider or technician will evaluate the site and apply another dressing.
• If bleeding occurs after you leave the hospital, call your nurse or doctor who ordered the test or go to the nearest emergency center.

**Bathing**
• **Bone marrow aspiration only:** No tub bath or shower for 24 hours. Remove the bandage after 24 hours.
• **Bone marrow biopsy:** No tub bath or shower for 48 hours. Remove the bandage after 48 hours.

**Problems to report**
• Bleeding through the pressure bandage – call your home clinic or go directly to the nearest emergency center
• Redness, swelling, or drainage from the bone marrow aspiration site after you have removed the dressing – call your home clinic
• Fever greater than 101 degrees Fahrenheit (38.3 degrees Celsius) – call your home clinic or go directly to the nearest emergency center
• Discomfort that is not relieved by walking – call your home clinic

Your doctor will discuss results with you.
If you have any questions contact the Bone Marrow Aspiration Clinic. They are open Monday through Friday, 7:30 a.m. to 5:00 p.m. The phone number is 713-563-3000.

**Resources**

For more information visit the National Institutes of Health [http://www.nhlbi.nih.gov/health/health-topics/topics/bmt/](http://www.nhlbi.nih.gov/health/health-topics/topics/bmt/)