



If you have any English language difficulties, please ask staff to book an interpreter.

From home contact the Telephone Interpreter Service on 13 1450.

Services are provided free of charge. Ask staff if this information is available in your preferred language.

What is the bone marrow, and what does a bone marrow biopsy involve?

The bone marrow is the spongy and liquid matter in large bones, responsible for the making of normal red cells (carrying oxygen), white cells (fight infections) and platelets (assist with blood clotting).

A bone marrow biopsy is the procedure where both the liquid marrow (the aspirate) and a piece of solid bone (trephine) are removed (usually from the back of the hip bone). Both liquid and solid marrow are then examined under the microscope and tested in other ways.

Purpose

There are many reasons why a bone marrow biopsy is requested. The main ones are:

1. **For diagnosis** of a bone marrow disease, prompted by abnormal blood tests you may have had.
2. To **determine the extent of spread** of diseases such as lymphoma that has already been diagnosed on a biopsy at another site (staging).
3. To **assess the response** of a disease to therapy (e.g. for acute leukaemia after chemotherapy).

What does the bone marrow biopsy involve?

You will be asked to lie on your side, curled up with your knees toward your chest. A nurse will administer a sedative, and your breathing rate and oxygen levels will be monitored.

Most bone marrow biopsies are obtained from the pelvic (hip) bone and performed by a trained doctor. The skin of the site of the biopsy will be cleaned and made numb with a local anaesthetic. The doctor will make a small incision in the skin and insert the bone marrow needle. A sample of bone marrow and a small piece of the bone is taken. A waterproof dressing will be applied to the site of the biopsy. You will then be required to lie flat for an hour, after which you may go home if there are no complications.

For a minimum of 12 hours after receiving intravenous sedation, you are not to drive, nor operate any machinery requiring careful attention, as your reaction time and reflexes are likely to be slower than normal. It is also suggested that you do not make legal decisions/sign any legal documents in that time period.

What preparations are required for the bone marrow biopsy?

You are required to fast (no solid food) for at least 6 hours before the procedure but can have clear fluids and medications up to 2 hours prior to the biopsy.

If you are on medications that thin the blood [warfarin, dabigatran (Pradaxa), rivaroxaban (Xarelto), apixaban (Eliquis); aspirin, clopidogrel, prasugrel etc], or diabetic medications, please inform the medical staff beforehand.

Please make arrangements for your transportation to and from the hospital. Somebody else will need to drive you home.

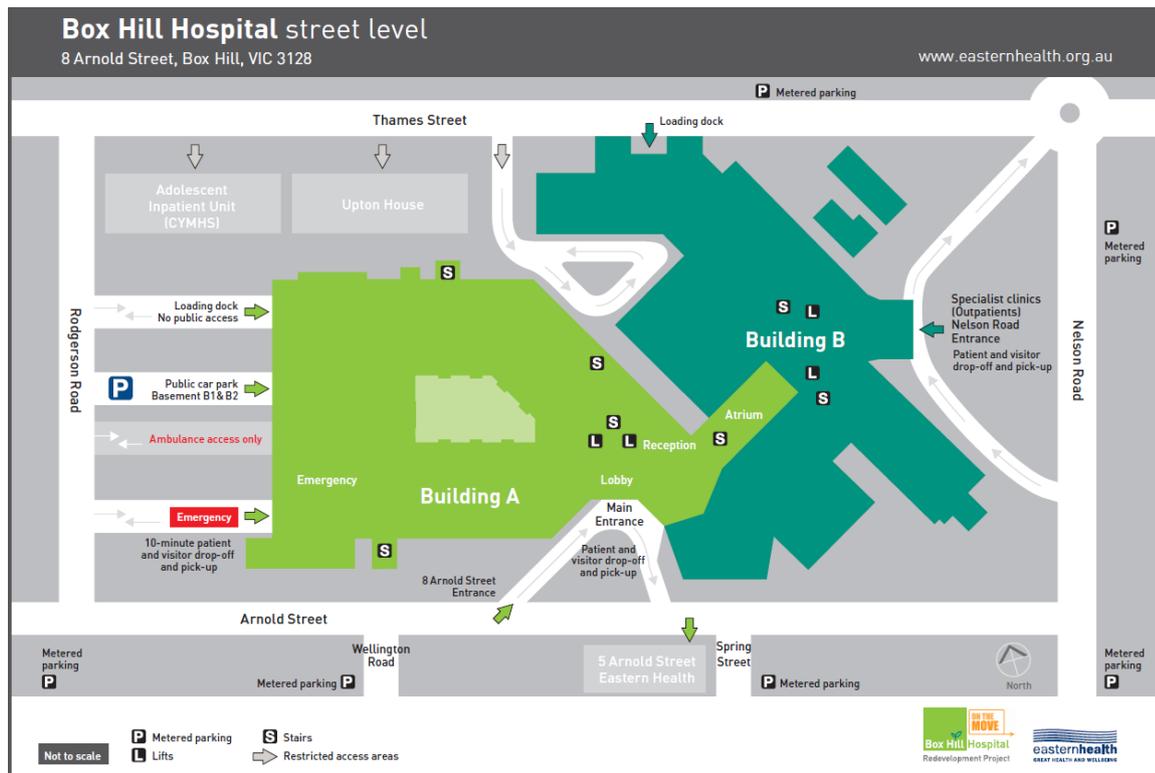
What can I expect after a bone marrow biopsy?

You will have a dressing placed on your hip at the site of the biopsy. Please keep the dressing dry for the first 24 hours, and the dressing on for 3 days.

Serious complications from bone marrow biopsies are rare. The most common complication is bleeding. It is very rare that bleeding will require medical intervention however, a slight ooze after the procedure may occur. There will be some discomfort for the first few days after the biopsy at the site of the procedure. This is normal, and should improve with time. Simple analgesia such as paracetamol should suffice. Infection is very rare, and in previous cases, have responded well to antibiotic treatment.

Should any of the above be a concern, please call the Laboratory Haematology Registrar (via switch board) for further instructions.

Map of Box Hill Hospital (Building A). Day Oncology is Ward 4.3 on level 4 (use the main lifts from the carpark or behind reception at street level (item "L" on map of building A, below). Please report to the Level 4 reception desk.



Checklist

1. Arrange transportation.
2. Inform doctor about medications (especially blood thinners and diabetic medications) and allergies.
3. Fast - 6 hours for solids, clear fluids until 2 hours prior to procedure, medications permissible.
4. Wound and dressing care - dry for 24 hours, in place for 3 days.
5. Contact number (9975 6435) - contact if any concerns.

Protecting Your Privacy

Eastern Health is committed to protecting your privacy. We will keep your personal information secure and will disclose information about you only when required by law. We comply with relevant information and privacy legislation. If you would like more information, please ask a staff member or visit our Web site www.easternhealth.org.au
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