



The Lebanese Society of Obstetrics and Gynecology

Women's health promotion series

Mammography

When breast cancer is diagnosed at an early stage it could be treated and the patient would have a high chance for recovery. A mammography is a safe X-Ray technique used to check for any growth or tumor in the breast. About 1 in 8 women will get breast cancer during their lives. The risk of getting breast cancer increases as a woman ages. Most cases of breast cancer occur in women who are past menopause (when the ovaries stop functioning and menstruation stops). By age 40 years, mammography should be a regular part of your health care. This pamphlet will explain:

- How the test is done
- What the test results mean
- When you should have mammography

Your Breasts

Your breasts are made up of glands, fat, and thickened (fibrous) tissue. They respond to changes in the levels of hormones during your monthly menstrual cycle. Hormones change the amount of liquid stored in the breast. This may make fibrous areas in the breast more painful.

Your breasts will change during pregnancy, breastfeeding, and menopause. You may notice changes if you use hormonal contraception (birth control) or hormone therapy. Even if you have breast implants (sacs filled with saline or silicone gel), there can be changes in your breasts.

What Is Mammography?

Some growths are very small or lie deep in the breast tissue. These growths can be hard to detect by self-examination. Some growths are benign (not cancer); others may be malignant (cancer). Mammography is a good way to find cancerous growths before they are large enough to be felt. When cancer is found in this early stage, it is easier to treat. Caught early enough, breast cancer often can be cured. Mammography is a simple X-ray process. It passes low doses of X-rays through the breasts. No dyes have to be injected or swallowed, and no instruments will be put in your body.

Mammography also is useful for checking lumps that have been felt during a physical exam by a doctor or a breast self-exam. It can be done in a doctor's office, a clinic, a mobile screening van, or a hospital. Your doctor can order the test. It is done by an X-ray technician trained in mammography. The results then are read by a specially trained doctor (radiologist). No matter where the test is done, you should get a report of the results from the radiologist or your doctor. Ask your doctor about anything you do not understand.

Who Should Have Mammography?

Women aged 40–49 years should have mammography done every 1–2 years. Women aged 50 years and older should have it done every year. If you have certain risk factors, your doctor may suggest you have the test at a younger age.

If a woman has any of the following risk factors, she may be at increased risk for developing breast cancer:

- Certain genes passed on from her parents (BRCA1 and BRCA2: Genes that increase your risk of breast cancer and certain other types of cancer)
- Breast cancer in her mother, daughter, or sister
- No term pregnancies or pregnancy later in life (age 30 years or older)
- Early menstruation (younger than age 12 years)
- Late menopause (age 55 years or older)
- Never breastfed a child

These factors also may increase the risk of breast cancer for some women:

- Personal history of cancer of the breast, endometrium, ovary, or colon
- Postmenopausal obesity
- Alcohol intake
- Recent hormone therapy
- Recent use of birth control pills
- Tall stature

You need mammography if you have any of these signs:

- Unexplained lump or thickening in the breast or in the armpit
- Wrinkles, depressions, redness, or other changes in the skin of the breast
- Secretion or bleeding that comes from the nipple
- A recent change in the nipple, such as a retracted nipple (a nipple that has pulled inward)

If any of these signs apply to you, talk to your doctor about having a physical exam and mammography.

Mammography is important for all women, especially women aged 40 years and older. The size of your breasts does not matter. Whether you have breast implants does not matter. Women who have had breast cancer surgery also may need mammography and other tests to check any breast tissue that remains. An ultrasound exam may be done first in younger women who are found to have a lump in their breasts.

What to Expect

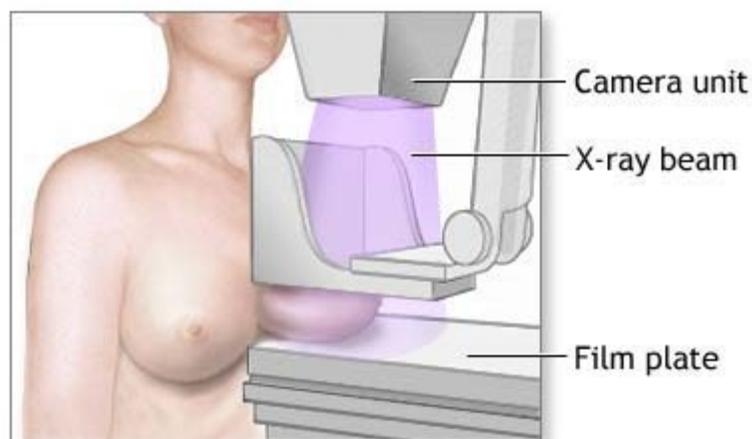
The day you have the test done, you should not wear powders, lotions, or deodorants. This is because most of these products have substances that can show on the X-ray films. They can make the films hard for the radiologist to read.

To get ready for the test, you will need to undress from the waist up and put on a gown. You will be asked to stand or sit in front of the X-ray machine. Two smooth, flat plastic or glass plates will be placed around one of your breasts. You will briefly feel pressure on your breast. The

plates will flatten your breast as much as possible so that the most tissue can be viewed with the least radiation. After the first X-ray, the plates may be removed so that the breast can be X-rayed from one or more other positions. The test then is done on the other breast.

The pressure of the plates may make the breasts ache. This discomfort will go away shortly. If you menstruate, you may want to have the test done in the week right after your period. The breasts often are less tender at this time.

If you have breast implants, tell your doctor. You also should mention your implants to the person who is giving the test. Breast implants can make it more difficult to see certain parts of the breast tissue. There is some risk that the implant may burst during the test. Therefore, extra care should be taken when the breast is compressed.



Are There Any Risks?

Mammography exposes a woman to a very low dose of X-rays. In the past, there was some concern about the amount of radiation a woman would be exposed to during the test. Improved equipment and techniques now result in very low doses. The dose is much lower than the natural level of radiation received from the environment during a 1-year period. Thus, risk is very low, even with repeated tests. If needed, mammography can be done during pregnancy.

Some types of cancer cannot be seen on a mammogram. Even lumps that can be felt may not show up. The combination of mammography, regular breast exams by your doctor, and self-exam may give the best results. If you feel a lump during a breast self-exam, see your doctor.

Waiting For The Results

It is normal to worry while you are waiting for the results of your mammogram can. If you feel that your fears and worries are getting in the way of your daily activities talk to a friend or to your family about it. You can also express your concerns to your doctor or ask for a referral to a counselor or psychologist.

What If the Test Result Is Positive?

Most lumps found in the breast are not cancerous. To confirm the results of mammography, other imaging tests, such as ultrasonography (A test in which sound waves are used to examine internal structures) and magnetic resonance imaging (a method of viewing internal organs) also may be useful. Magnetic resonance imaging of the breast is a method used to view tissue inside the breast by using a strong magnetic field and radio waves. With ultrasonography, sound waves are used to create pictures of the inside of body organs or tissues, such as the breast. This method can tell your doctor about certain types of breast lumps. It can show whether the lumps are solid or filled with fluid. You also may need to have the test again if the results of the first test were not clear.

Other tests can tell your doctor more about the type of lump. They include:

- Needle aspiration:

A needle is inserted into the lump to find out whether it is fluid filled or solid. A sample of fluid or tissue may be drawn out for study under a microscope.

- Biopsy:

A surgical procedure in which a small cut is made to remove the entire growth or a sample for study under a microscope.

In some cases, special breast X-rays also may be used along with these tests. This allows the doctor to get a better view of the area that is being studied.

What If the Test Result Is Negative?

This means that there were no abnormal changes found in your breast, however this does not mean that you are safe from breast cancer and should not do the mammogram again. A woman should get a mammogram every 1 to 2 years.

Finally...

Combined with regular checkups and breast self-exams, mammography is a good way to find cancer at an early and more curable stage. It has large benefits and small risks. For women aged 40 years and older, mammography should be part of your routine health care.

With the compliments of the Lebanese Society of Obstetrics and Gynecology

(Women's health promotion)