

Breast Cancer: Understanding the Disease and Its Impact

Selva Raghavan*

Department of Women's Health, University of Madras, Chennai, India

Breast cancer is a type of cancer that develops in the breast tissue. It is one of the most common cancers that affect women, but it can also occur in men. The disease occurs when cells in the breast tissue begin to grow abnormally and uncontrollably, forming a tumour that can invade nearby tissues and spread to other parts of the body. The incidence of breast cancer varies around the world, but it is estimated that about one in eight women will develop breast cancer at some point in their lives. While the disease can occur at any age, the risk increases as a woman gets older, with the majority of cases diagnosed in women over 50 years old [1].

The exact causes of breast cancer are not fully understood, but there are several known risk factors that can increase a woman's likelihood of developing the disease. These include:

Age: As mentioned, the risk of breast cancer increases with age, with the majority of cases occurs in women over 50.

Gender: Breast cancer is more common in women than in men, as women have more breast tissue than men.

Family history: Women with a family history of breast cancer, especially in first-degree relatives (mother, sister, daughter), are at a higher risk of developing the disease.

Genetic mutations: Inherited mutations in certain genes, such as BRCA1 and BRCA2, can increase the risk of breast cancer [2].

Reproductive factors: Women who have never had children or who had their first child after the age of 30 may have a slightly higher risk of breast cancer.

Hormone therapy: Women who have taken hormone therapy, such as estrogen and progesterone, for an extended period of time may have a slightly higher risk of breast cancer.

Symptoms of breast cancer may include a lump or thickening in the breast tissue, changes in the size or shape of the breast, changes in the skin texture or color of the breast or nipple, nipple discharge, or pain in the breast or nipple area. However, not all breast cancer cases present with symptoms, which is why regular screening is so important. Breast cancer screening typically involves a mammogram, which is an X-ray of the breast tissue, along with a clinical breast exam, where a healthcare provider examines the

breasts for any lumps or abnormalities. For women at high risk of breast cancer, additional screening, such as breast MRI, may be recommended [3].

If breast cancer is detected, the treatment will depend on several factors, including the stage of the cancer, the location of the tumour, and the woman's overall health. Treatment options may include surgery to remove the tumour, radiation therapy, chemotherapy, hormone therapy, or targeted therapy. While breast cancer can be a serious and life-threatening disease, there are many resources available to help women and their families cope with the disease. Support groups, counselling, and educational programs can all provide valuable information and emotional support for those affected by breast cancer [4].

In addition to these resources, there are also many organizations dedicated to raising awareness about breast cancer and funding research into its causes, prevention, and treatment. Breast cancer awareness campaigns, such as Breast Cancer Awareness Month in October, help to educate the public about the disease and encourage women to get regular screening [5].

In conclusion, breast cancer is a disease that affects millions of women around the world. While the causes of the disease are not fully understood, there are several known risk factors that can increase a woman's likelihood of developing breast cancer. Regular screening, along with a healthy lifestyle, can help to reduce the risk of breast cancer and increase the chances of early detection and successful treatment. With continued research and education, we can work together to improve the lives of women affected by breast cancer and ultimately find a cure for this devastating disease.

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*Correspondence to: Selva Raghavan, Department of Women's Health, University of Madras, Chennai, India, E-mail: selvarag@unom.ac.in

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