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Opinion Article

Recognizing Breast Cancer: A Comprehensive Overview

Naomi Akiko*

Department of Oncology, University of Okayama, Okayama, Japan

DESCRIPTION

Breast cancer is a disease that arises when cells in the breast tissue grow uncontrollably, forming a malignant tumor. It is one of the most common cancers globally and affects both men and women, though it is significantly more prevalent in women. Understanding the complexities of breast cancer, including its risk factors, symptoms, diagnosis, and treatment options, is crucial for effective management and improved outcomes. Several factors can increase the risk of developing breast cancer. While some are beyond personal control, others can be managed through lifestyle choices. One of the most significant risk factors is having a family history of breast cancer. Mutations in the Breast Cancer Gene (*BRCA1*) and *BRCA2* genes significantly increase the likelihood of developing the disease. Women with these genetic mutations may opt for preventive measures such as mastectomy or regular screening. The risk of breast cancer increases with age. Most cases occur in women over 55, though younger women can also be affected. While men can develop breast cancer, it is much rarer. Prolonged exposure to estrogenic, such as from early menstruation or late menopause, can elevate risk. Additionally, Hormone Replacement Therapy (HRT) used during menopause has been linked to increased breast cancer risk. Obesity, excessive alcohol consumption, and lack of physical activity are associated with a higher risk of breast cancer. Adopting a healthy lifestyle, including regular exercise and a balanced diet, can help mitigate these risks. Women who have never had children or had their first child after age 30 may have a slightly higher risk of breast cancer. Additionally, not breastfeeding may also be a risk factor. Treatment for breast cancer depends on the type, stage, and individual patient factors. A multidisciplinary approach often yields the best outcomes.

This procedure involves removing the tumor and a small margin of surrounding tissue while preserving the rest of the breast. Involves removing one or both breasts, depending on the extent of the disease. A mastectomy may be recommended for larger tumors or if the cancer has spread. Often used after surgery to eliminate any remaining cancer cells in the breast or chest area. Radiation therapy uses high-energy rays to target and kill cancer cells. This treatment involves using drugs to kill or inhibit the growth of cancer cells. It is often used for more aggressive cancers or when the cancer has spread beyond the breast. Used for cancers that are hormone receptor-positive. It works by blocking the body's natural hormones, such as estrogenic, that fuel cancer growth. Medications like tamoxifen or aromatase inhibitors are commonly prescribed. This newer approach targets specific molecules involved in cancer cell growth. Drugs like Herceptin are used to treat Human Epidermal Receptor (HER2) positive breast cancers, which have high levels of the HER2 protein. Still in the experimental stages for breast cancer, immunotherapy aims to enhance the body's immune system to recognize and destroy cancer cells more effectively. Breast cancer diagnosis and treatment can be overwhelming. Support from healthcare professionals, family, and support groups can significantly improve emotional well-being and quality of life. Organizations such as the American Cancer Society and Breast Cancer Study Foundation offer valuable resources, including counselling, financial assistance, and information on the latest study and treatments. Breast cancer remains a significant health concern but advances in study and treatment have greatly improved survival rates. Early detection through regular screening, awareness of risk factors, and a comprehensive treatment approach are key to managing the disease effectively. By staying informed and proactive, individuals can better navigate the challenges of breast cancer and work towards a healthier future.

Correspondence to: Naomi Akiko, Department of Oncology, University of Okayama, Okayama, Japan, E-mail: naomi22@gmail.com

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