

8. Disruption of Biological Rhythm and Shift work
9. Exposure to Carcinogenic Substances
10. Exposure to Radiation
11. Certain Medical Conditions such as Fibrocystic Breast Disease and Lupus Erythematosus

## **Genetic consideration of Breast Cancer**

To some extent, Breast Cancer can be hereditary in nature. The BRCA genes are the tumor suppressor genes which prevent uncontrolled cell growth and abnormal cells turning into cancerous. The harmful mutations in these BRCA 1 and BRCA 2 genes may produce a “Heredity Ovarian Breast Cancer Syndrome” in the affected individuals. Such women may have five times higher risk of Breast Cancer, and about ten to thirty times higher risk of ovarian cancer than normal women. Mutations can be inherited from either parent and may pass on to son or daughter both. BRCA-related breast cancer appears at an earlier age than sporadic breast cancer. It has been asserted that BRCA-related Breast Cancer is more aggressive than normal Breast Cancer. These mutated genes are also associated with triple-negative Breast Cancer, which does not respond to hormonal treatment or any other drug.

## **Classification of Breast Cancer**

### **1. Histopathological classification**

1. DUCTAL CARCINOMA IN-SITU: Its a non-invasive Breast Cancer in which abnormal cells are present in the lining of breast milk duct.
2. INVASIVE DUCTAL CARCINOMA (IDC): In IDC, abnormal cells originating in the lining of breast milk duct invades the surrounding tissues.



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