



## Epidemiology and Histopathology of Breast Cancer in Iran versus other Middle Eastern Countries

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Breast Cancer is malignant growth that structures in the cells of the breast. After skin malignancy, Breast Cancer disease is the most widely recognized malignancy analyzed in ladies in the United States. Breast malignant growth can happen in the two people, however it's unmistakably increasingly regular in ladies. Generous help for bosom malignant growth mindfulness and examination financing has helped made advances in the determination and treatment of bosom disease. Bosom malignant growth endurance rates have expanded, and the quantity of passing related with this illness is consistently declining, to a great extent because of elements, for example, prior location, another customized way to deal with treatment and a superior comprehension of the malady. Breast malignant growth happens when some bosom cells start to develop strangely. These cells partition more quickly than sound cells do and keep on collecting, shaping a knot or mass. Cells may spread (metastasize) through your bosom to your lymph hubs or to different pieces of your body. There are a few sorts of breast malignant growth, and they are broken into two principle classifications: "intrusive" and "noninvasive," or in situ. While obtrusive malignancy has spread from the breast conduits or organs to different pieces of the bosom, noninvasive disease has not spread from the first tissue. These two classes are utilized to depict the most widely recognized sorts of breast malignancy, which incorporate Ductal carcinoma in situ. Ductal carcinoma in situ (DCIS) is a noninvasive condition. With DCIS, the disease cells are kept to the channels in your bosom and haven't attacked the encompassing bosom tissue. Lobular carcinoma in situ. Lobular carcinoma in situ (LCIS) is malignant growth that develops in the milk-creating organs of your bosom. Like DCIS, the malignant growth cells haven't attacked the encompassing tissue.

Intrusive ductal carcinoma. Intrusive ductal carcinoma (IDC) is the most widely recognized sort of bosom malignant growth. This sort of bosom malignant growth starts in your bosom's milk conduits and afterward attacks close by tissue in the bosom. When the breast malignant growth has spread to the tissue outside your milk conduits, it can start to spread to other close by organs and tissue. Invasive lobular carcinoma. Intrusive lobular carcinoma (ILC) first creates in your bosom's lobules and has attacked close by tissue. Breast malignant growth regularly starts with cells in the milk-creating channels (obtrusive ductal carcinoma). Breast malignancy may likewise start in the glandular tissue called lobules (intrusive lobular carcinoma) or in different cells or tissue inside the breast. Researchers have distinguished hormonal, way of life and natural factors that may build your danger of bosom disease. Be that as it may, it's not satisfactory why a few people who have no hazard factors create malignant growth, yet

others with chance factors never do. Almost certainly, bosom malignant growth is brought about by an intricate connection of your hereditary cosmetics and your environment. Doctors gauge that 5 to 10 percent of bosom diseases are connected to quality changes went through ages of a family. A number of acquired transformed qualities that can improve the probability of bosom malignancy have been recognized. The most notable are bosom malignancy quality 1 (BRCA1) and bosom disease quality 2 (BRCA2), the two of which altogether increment the danger of both bosom and ovarian malignancy. In its beginning phases, bosom malignancy may not bring on any side effects. As a rule, a tumor might be too little to even consider being felt, however a variation from the norm can in any case be seen on a mammogram. In the event that a tumor can be felt, the principal sign is generally another protuberance in the bosom that was not there previously. Be that as it may, not all protuberances are malignant growth. Fiery bosom disease (IBC) is an uncommon yet forceful sort of bosom malignant growth. IBC makes up just somewhere in the range of 1 and 5 percent Trusted Source of all bosom malignant growth cases.

With this condition, cells hinder the lymph hubs close to the bosoms, so the lymph vessels in the bosom can't appropriately deplete. Rather than making a tumor, IBC makes your bosom swell, look red, and feel warm. A harmful bosom may seem hollowed and thick, similar to an orange peel. IBC can be forceful and can advance rapidly. Breast cancer is the most prevalent cancer among females worldwide. This study compares the results of the most cited published Iranian studies and studies from other Middle East countries on breast cancer with data from the Ministry of Health and Medical Education and approximately 2000 cases.

Methods: Data from the Cancer Registry System of the Ministry of Health and Medical Education and the Cancer Research Center were obtained in addition to data from other published Iranian articles to increase the accuracy of incidence, prevalence, disease burden, risk factors, clinical staging, clinical pathology, biological markers, clinical subtypes, and survival rate of breast cancer in the last decade and compare the epidemiological data with other areas.

Results: Overall, breast cancer was the most common cancer in Iran. The age standardized rate for breast cancer was 33.21 per 100,000 according to the latest national databases. The mortality rate for breast cancer has not changed in the past 30 years in Iran. The age-standardized rate for mortality was 14.2 per 100,000 with a mean age of 49.84 years. The most common cancer in Iran is invasive ductal carcinoma. In our last review, 65.5%-

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70.5% of cases were in the early stages (1 and 2) and less than 30% were in the advanced stages. The five-year overall survival rate was estimated at 72% in women and 60% in men. The stage and number of positive lymph nodes significantly affected the survival rate. In the Gulf Cooperation Council, ASR of the Kingdom of Saudi Arabia was (12.9), Bahrain (46.4), Kuwait (44.3), Qatar (35.5), United Arab Emirates.

Conclusion: Our study shows that epidemiology and histopathology of cancer is Different with other neighborhood countries and is multi-dimension and needs multicenter involvement from government authorities, clinicians and scientists.

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