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# **ORIGINAL ARTICLE**

## A Clinical Profile of Breast Lesions: A Hospital Based Study

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#### ABSTRACT:

**Background:** Breast lumps diseases are a standout amongst the most widely recognized ailments in India which incorporate inherent, traumatic, inflammatory, hormonal mastopathy, benign and malignant neoplastic conditions. Around 200,000 instances of breast infections are analyzed every year. We completed this examination so as to know the clinical profile for breast tumor patients in our patient populace. **Materials and Methods:** The investigation was led in branch of pathology, in a hospital in North India. We recovered breast biopsies got in histopathology division over a time of a year. An aggregate of 120 instances of breast lesions were incorporated into the investigation. The information with respect to the area of the lump, histopathological sorts experienced in introduce arrangement, clinical stage at investigation, treatment and follow up has been portrayed. **Result:** Out of an aggregate of 120 instances of breast lesions, most common lesions were benign 71.3% with mean age 32.5 years. The general mean age of patients was 33.7 years, with a wide age scope of 18–70 years. Generally the most ordinarily revealed lesion was fibroadenoma cases, trailed by infiltrating duct carcinoma, mastitis cases, gynecomastia and fibrocystic infection cases. The greatest instances of threat were seen in 45-55 years old of life. Most basic malignant lesion was infiltrating duct carcinoma. **Conclusion:** Breast lesions are all the more ordinarily found in female patients. Likewise, regardless of every other side effect, complaint of breast lumps was found in all patients. In context of the rising rate of breast carcinoma and the regular discourses in its organization, it is endorsed that they should in a perfect world be directed by surgical oncologists for advancement in the patient's outcome.

**Keywords:** Breast cancer, benign, epidemiology, surgery.

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India, and there is a rising pattern in its rate as the most well-known kind of tumor in urban Indian ladies, and the second most regular sort of malignancy in provincial ladies. The likelihood of creating Breast cancer amid lifetime in Indian ladies is 1 of every 20 when contrasted with 1 out of 9 ladies in the United States and

Breast cancer contributes for 6-8% of all cancers in

NTRODUCTION:

contrasted with 1 out of 9 ladies in the United States and other created nations.<sup>2</sup> Hereditary contrasts, the phase of ailment at the season of finding, accessibility of appropriate and suitable care are a portion of the components which clarify the distinctions in frequency, clinical profile and result of the patients.

Benign diseases can be classified as inflammatory and stroma multiplications, neoplasm and formative anomalies. Benign breast diseases are more predominant when contrasted with malignant and incendiary, as observed all through the world.<sup>3</sup> Fibro adenomas are in more noteworthy

recurrence among the populace, constituting half of all instances of considerate diseases.4 Incidence of benign lesions is regular in the second decade coming to on its top at fourth and fifth decade of life. Risk factors for favorable and threatening breast sicknesses incorporate low equality, invalid equality, low age at first birth and late menopause, featuring the reality towards unreasonable flowing estrogen levels.<sup>4</sup>

Breast issues for which patients counsel specialists are breast torment, nipple discharge and palpable masses. Obsessive or physiological nipple release is troubling. 12 to 15% of ladies with benign breast maladies will whine of neurotic areola release.<sup>5</sup> A breast mass and a cyst require histological determination while the breast torment (mastalgia) remains the most well-known side effect in ladies.<sup>6,7</sup> In India, as there is no investigation of breast infection led independently in rustic India so no insights accessible on breast maladies happening in provincial India

consequently thinks about are required to assess the rate and commonness of breast ailments so intercessions should be possible to teach and guide individuals about the hazard factors, significance of screening and administration procedures. Some patient may require affirmation just to reduce disease fear .The point of study was to make clinicopathological profile of breast lesions and to survey the age and sex profile, circulation and histomorphological profile of inflammatory, benign and malignant lesions.

### **MATERIALS AND METHODS:**

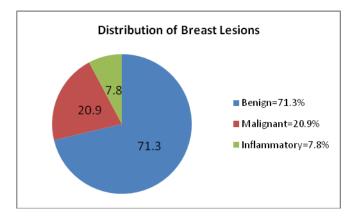
An aggregate of 120 primary breast disease patients conceded over a year time span, in various surgical and oncosurgery wards of a tertiary care focus in North India, were taken up for contemplate. Out of 120 only 2 were male patients rest were females. Consideration criteria incorporates patients with grievances of lump in the breast and both out and inpatient (OPD and IPD). The breast malignancy patients officially treated by mastectomy outside and with non palpable breast lump infection were rejected. A definite review investigation of patients was finished by an arranged proforma. The required data was gathered from the restorative records saved in the foundation. A larger part of the patients were in the age gathering of 32 years. The most youthful patient was 18 and the most established was 70 years of age.

Histopathological cases were named inflammatory, benign and malignant lesions. In this examination, example was acquired around the same time from patients experiencing mastectomies or lumpectomies for different benign and malignant breast lesions. The tissue was set on a bit of guaze that has been first wetted with saline and after that wrung out so it is simply moist. The guaze was then collapsed over the examples and encased in a glass vial with an elastic stopper, for transportation to the division of pathology. The solidified segments of the examples were readied. Subsequent to concentrate the histological slides of the examples, the conclusion were noted and analysed.

### **RESULT:**

Out of an aggregate of 120 instances of breast lesions, most common lesions were benign 71.3% with mean age 32.5 years. The general mean age of patients was 33.7 years,

with a wide age scope of 18–70 years. Out of all the patients most were from a rural background. Generally the most ordinarily revealed lesion was fibroadenoma cases, trailed by infiltrating duct carcinoma, mastitis cases, gynecomastia and fibrocystic infection cases. (Refer table 2)The greatest instances of threat were seen in 45-55 years old of life. Most basic malignant lesion was infiltrating duct carcinoma.



**Table 1:** Distribution of cases according to Symptoms and Site of lesion

Symptoms	No of cases (n=120)
Lump in breast	89
Weight loss	42
Pain	13
Nipple discharge	10
Ulceration	8
Loss of apetite	49
Site of lesion	
Upper	46
Lower	32
Central	24
Not assessable	18
Right	51
Left	69

 Table 2: Histomorphological distribution of benign and malignant lesions

Benign lesions	
Fibroadenoma	66
Normal breast tissue	9
Gynecomastia	2
Fibrocystic disease	7
Fibroadenosis	3
Papilloma	4
Benign proliferative hyperplasia	2
Duct ectasia	1
Malignant lesions	
Infiltrating duct carcinoma	18
Lobular carcinoma	4
Invasive papillary carcinoma	2

Medullary carcinoma	1

**Table 3:** Treatment modality of breast lump

Diseases	Medical	Surgical	Reassure	Total	
Benign	31	58	6	95	
Malignant	0	25	0	25	

Out of 95 cases of benign lump 58 underwent surgical excision, 31 went for medical therapy and 6 for reassurance. Out of 25 cases of malignant lump all underwent surgical excision of lump.

### **DISCUSSION:**

The present investigation gives the data with respect to the clinical profile and result of breast cancer patients from the area. The information in regards to the area of lump in the breast cancer patients from our investigation is in accordance with that detailed by RK Gange et al. In any case, Chavan et al. In have considered 1356 cases and watched that area of the protuberance was in upper external quadrant in 17% cases in right breast and 20% cases in left breast, bring down external quadrant in 10% cases in each breast, upper inward quadrant in 4% cases in right breast and 10% cases in left breast, bring down internal quadrant in 4% cases in right breast and 5% cases in left breast and focal quadrant in 5% cases in right and 15% cases in left breast.

The point of this review investigation was to contemplate the study of disease transmission of breast tumor at a tertiary care doctor's facility in North India. A larger part of the patients were in the fourth decade of their life, as additionally announced in contemplates from India and other Asian countries. 11,12 However, reports from the western world demonstrate that female breast carcinoma is prevalently found in the fifth and 6th decade. 13 The rate of breast carcinoma in guys was observed to be 1.3%, like different reports distributed in the literature. 14 Out of the considerable number of patients most were from a provincial foundation and the distinction was factually huge. In any case, different reports from India and additionally United States indicate higher frequency in urban populace contrasted with the rustic population. <sup>15</sup> The distinction is potentially because of the way that ladies in provincial zones confront significant obstructions in getting preventive human services services. 16 However, our doctor's facility obliges most extreme patients from country territory, in this manner representing higher number of country breast carcinoma patients.

Lump in the breast was the chief presenting complaint in majority patients, as announced in different studies. <sup>17</sup> Some tolerant gave a secluded dissension of areola release/ nipple discharge or pain in the breast. The frequency of breast carcinoma was more on the left side in the upper external quadrant verifying with the past reports. <sup>18,19</sup> The conceivable clarifications are that the left breast is bulkier and the upper external quadrant has a moderately bigger volume of breast tissue. <sup>20</sup> Delayed introduction was potentially identified with provincial foundation and absence of training.

Dominant part of cases in this examination are benign lesion (71.3%) followed by malignant (20.9%) and inflammatory 49 (7.8%). Our discoveries are like those by A N Olu eddo et. al., Malik et al and Rakhsanda et al. rather than it, different investigations watched most astounding rate of provocative sores contrast with benign and malignant lesions. <sup>21,22,23</sup>

In India, fibro adenoma is the most continuous kind injury of the breast.<sup>24</sup> We found that most normal amiable sore was fibroadenoma constitutes 66 out of 120 with the pinnacle frequency in the age gathering of 20-25 years.<sup>25</sup> This is like different examinations from Nepal, Lahore, Aurangabad, Mumbai and Malawi district.<sup>26,27</sup> The reasons for this high recurrence of fibroadenoma is not known, might be impacted by racial inclination, statistic factors and hormonal lopsidedness. On histopathological examination, infiltrating duct carcinoma is the most well-known threat and is like other studies.<sup>28,29</sup>

The examination has its impediments which incorporate an observational and engaging investigation plan. Additionally, the example measure is generally little. There is a requirement for creating other savvy screening modalities for breast disease notwithstanding engendering breast self-examination in masses, for early recognition. In perspective of the rising occurrence of breast carcinoma and the common debates in its administration, it is suggested that they ought to ideally be overseen by surgical oncologists for development in the patient's result.

### **CONCLUSION:**

The most well-known breast injuries are generous and the commonest kind lesion is fibrodenoma. Infiltrating duct carcinoma is most normal threat and observed to be more typical in 45-55 years old gathering.

#### **REFERENCES:**

- Chandra AB. Problems and prospects of cancer of the breast in India. J Indian Med Assoc 1979;72:43-5.
- Kuraparthy S, Reddy KM, Yadagiri LA, Yutla M, Venkata PB, Kadainti SV, et al.. Epidemiology and patterns of care for invasive breast carcinoma at a community hospital in Southern India. World J Surg Oncol 2007;5:56.
- 3. Agarwal G, Ramakant P. Breast Cancer Care in India: The Current Scenario and the Challenges for the Future. *Breast Care (Basel)* 2008;3:21-7
- Kulkarni SS, Kulkarni BB, Vandana T, Kulkarni SS and Kadakol GS, Modak H et al.. Expression profiling of brca1

- gene in familial breast cancer in India. Afr. J. Biotechnol 2012; 11: 9123-9126.
- Hortobagyi, GN., J de la Garza Salazar, K Pritchard, D Amadori and R Haidinger et al.. The global breast cancer burden: Variations in epidemiology and survival. Clinical Breast Cancer 2005; 6: 391-401.
- Chaithanya Babu Bogarapu, Manmadha Rao Vayalapalli, Hemasundar Bendi, Sanjay Mantra. A retrospective study on the incidence of breast carcinoma in a tertiary care hospital. International Journal of Contemporary Medical Research 2016;3:1714-1716.
- P.K. Tiwari, Suvendu Ghosh, V K Agrawal. Diagnostic accuracy of mammography and ultrasonography in assessment of breast cancer. International Journal of Contemporary Medical Research. 2017;4:81-83.
- 8. Ramesh Maturi, Rajsekhar, Chiatanya B. Study of breast cancer- a critical audit of a surgeon and pathologist at a rural cancer centre. International Journal of Contemporary Medical Research. 2016;3:2578-2581.
- 9. Gang RK, Bothra VC, Pande SK: Cancer of the breast, a five year review at the Mahatma Gandhi Hospital, Jabalpur, *Ind. J. Surg* 1982; Vol.44, 347-350.
- Chavan YH, Pandit S, Kadam PN, Deshpande SA, Darshan M. A Stitch in Time Saves Nine; Fine Needle Aspiration Cytology of Palpable Breast Lump: An Extensive Study of 1356 Cases. *IJHSR* 2015; 5(3): 115- 120. London: HMSO, 1995.
- Anderson WF, Chatterjee N, Ershler WB, Brawley OW. Estrogen receptor breast cancer phenotypes in the Surveillance, Epidemiology, and End Results database. Breast Cancer Res Treat 2002;76:27-36.
- El-Tamer MB, Wait RB. Age at presentation of African-American and Caucasian breast cancer patients. J Am Coll Surg 1999;188:237-40 Hussain MA, Ali S, Tyagi SP, Reza H. Incidence of cancer breast at Aligarh. J Indian Med Assoc 1994;92:296-7.
- El-Tamer MB, Wait RB. Age at presentation of African-American and Caucasian breast cancer patients. J Am Coll Surg 1999;188:237-40.
- Joseph A, Mokbel K. Male breast cancer. Int J Fertil Womens Med 2004;49:198-9.
- Weiss JR, Moysich KB, Swede H. Epidemiology of male breast cancer. Cancer Epidemiol Biomarkers Prev 2005;14:20-6.
- Coughlin SS, Thompson TD, Hall HI, Logan P, Uhler RJ. Breast and cervical carcinoma screening practices among women in rural and nonrural areas of the United States, 1998-1999. Cancer 2002;94:2801-12.

- Perkins CI, Hotes J, Kohler BA, Howe HL. Association between breast cancer laterality and tumor location, United States, 1994-1998. Cancer Causes Control 2004;15:637-45
- Seymour I. Schwartz. Breast In. Principles of Surgery. 7th Edition. McGraw-Hill.1999. p. 564.
- Russell RCG, Williams NS, Bulstrode CJK. The breast In. Bailey and Love's Short Practice of Surgery.24th Edition. Arnold. 2004. p. 837.
- Lee AH. Why is carcinoma of the breast more frequent in the upper outer quadrant? A case series based on needle core biopsy diagnoses. Breast 2005;14:151-2.
- Malik M, Salahuddin O, Azhar M, Dilawar O, Irshad H, Sadia SA: Breast diseases; spectrum in Wahcantt; POF hospital experience. Professional Med J Sep 2010,17(3):366–372.
- Olu-Eddo A, Ugiagbe EE: Benign breast lesions in an African population: A 25-year histopathological review of 1864 cases. Niger J Med: J Niger Med Assoc 2011, 52(4):211.
- Rakhshanda Rashid SMH, Khushal Khan, Shabana Jamal, Tanwir Khaliq, Aslam Shah: Benign breast disorders, a clinicopathological study. Ann Pak Inst Med Sci 2005,1(4):187–190.
- 24. Awatif J, Nader M, Tarick M, et al. Profile of breasi diseases; Saudi. Med. J., 1997;18:364-66.
- Raju GC, Narayansingh V. Benign breast disease in a West Indian population. Br. l Sttrg 1985:72:17-18.
- Ranabhat S, Subedi M, Bhandari A, Tiwari M, Maharjan S, Kshetri J, et al. Clinico - pathologic profile of women with palpable breast lumps in Chitwan medical college, Nepal. Int J Res Med Sci 2015;3:1611-6.
- Kohler RE, Moses A, Krysiak R, Liomba NG, Gopal S. Pathologically confirmed breast cancer in Malawi: A descriptive study: Clinical profile of breast cancer. Malawi Med J 2015;27:10-2.
- Ellis H, Cox PJ Breast problems in 1000 consecutive referrals to surgical out patients. Postgrad Med .J 1984:60:653-66.
- Yonernoto R. Breast cancer in Japan anti United States, epidemiology, hormone receptors, pathology and survival. Arch Surg 1980:115:1056-62.

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