Profile of Breast Diseases In Jammu Region

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Abstract
This is a retrospective study of women with breast diseases conducted at ASCOMS and Hospital, Jammu. Inclusion criteria were women irrespective of age with breast diseases with or without complaints. Exclusion criteria were women having breast abscess and mammary fistula. Out of 125 breast diseases 39 cases (31%) had malignancy and 86 cases (69%) had Benign Breast Disease (BBD). The overall mean age for BBD was 25.9 years, with range of 10-60 years. The mean age for malignant breast diseases was 45.6 years, with range of 28-67 years. All of the cases had breast lump as their presenting complaints whether benign or malignant. 52.8% had no significant pain associated with lump; in malignant cases 35.8% had pain associated with lump. In benign cases 68.7% had no perceptible change in lump size. On ultrasound scan, 69% of the lesions were designated benign compared to 31% as malignant. FNAC resulted in 68% lesions to be classified as of benign nature and 32% as malignant / suspicious malignancy. BBD constituted 69% of breast diseases, and mostly fibroadenoma and FCC/FCD and commonest malignant lesion was infiltrating ductal carcinoma. The BBD peaked at the age of 21-30 years.

Key Word
Benign Breast Disease, Malignant Breast Disease, Fibrocystic Changes, Fibroadenoma

Introduction
Women presenting with breast complaints, like breast pain, nipple discharge, cystic lesions, especially lump are a common finding and a cause of significant anxiety in view of extensive public awareness. Breast problems, benign and malignant, are common in occurrence worldwide. A lump in the breast is experienced by the patient with the phobia of cancer. The disease poses a threat to the woman's sense of bodily integrity and her conceptions of body image and sexuality. Knowledge regarding risk factors in the development of breast cancer helps in developing targeted risk reduction strategies. The prevalence of cancer has been on a slow decline in developed countries in contrary to their increasing prevalence in developing and under developed countries. Benign Breast Diseases (BBD) are the most common breast condition affecting women of the reproductive age group and is known to affect approximately half the women population. Approach to a patient with breast complaints includes performing a "Triple test" which comprises of clinical breast examination, imaging of breast and FNAC/tru-cut biopsy.

Material and Methods
A retrospective data of total of 125 patients of breast diseases over a period of one year admitted in surgical department of ASCOMS and Hospital, Jammu was undertaken for evaluation. Women, irrespective of age, with breast disease or lump with or without associated complaints were included, women having breast abscess and mammary fistula were excluded. Initial data collection was done at surgical outpatient department (SOPD) by
the attending doctor or the principal investigator. Further
data collection were done during in-patient stay (if
admitted for surgery) and during follow-ups at SOPD;
from department of radio diagnosis and imaging, and the
department of Pathology. After focused history and
physical examination patients with palpable breast lumps,
who consented to the examination and management
procedures were enrolled and followed. After a complete
physical examination patients were sent for mammography and /or USG, then FNAC in such
sequence. Data analysis was done by using SPSS v17.10.

Results

Table 1. Duration of lump Before Presentation

<table>
<thead>
<tr>
<th>Duration (months)</th>
<th>Malignant</th>
<th>Benign</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Percentage</td>
</tr>
<tr>
<td>0-1</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>2 - 6</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>7 - 12</td>
<td>11</td>
<td>28</td>
</tr>
<tr>
<td>13 - 24</td>
<td>11</td>
<td>28</td>
</tr>
<tr>
<td>25 - 36</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>37 - 48</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>49 - 60</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>39</td>
<td>100%</td>
</tr>
</tbody>
</table>

Out of 125 cases, 31% had malignancy and rest 69%
patients had a benign lesion. One patient of 10 years age
had juvenile fibroadenoma. The maximum patients were
in the age group of 21-30 years, ranging 10-67 years. All
of the patients had breast lump as their presenting
complaints, 52.8% of patients had no significant pain
associated with the lump. In malignant cases, 14 patients
(35.8%) only had pain associated with lump. In contrast,
almost more than half of patients with benign lesions had
some pain associated with the lump. The mean time lags
before presentation after noticing the lump was
12.6months. (table 1) Most of the patients presented for
consultation after two to 12 months. Patients with benign
disease presented much earlier than those with
malignancy and this relation was statistically significant
(p=0.001). A total of 60.8% had not perceived a significant
change in the size of lump after they first noticed (p=0.01).
In benign cases 68.7% had no perceptible change in lump
size, 56% of patients with malignancy had noted some
increment in breast lump size before they presented to
clinic. 27% of patients perceived pain as the first symptom;
only 10 patients (8%) of total patients had nipple discharge
as associated symptoms. However, 20% of women with
malignant lesion had noticed nipple discharge. Prevalence
of smoking in patients with benign lesion was 9.31%
whereas those with malignancy were 25.56%. Out of 125 patients 19.2%were regular consumers of alcohol in
3.2% of patients had benign lesions in both the breasts, 64% of malignant lesions were in the right breast. Similarly, benign lesions also had right sided preponderance. 46% of malignant lump was in the right upper outer quadrant compared to 38.3% of benign lumps. Physical examination conducted in 125 patients had designated 72.80% of the lesions as benign, compared to 27.20% provisionally malignant lesions. On ultrasound scan, 69% of the lesions were designated benign compared to 31% malignant features. Of 27 patients who underwent mammography examination, 92.60% patients had malignant features. Since cut-off criteria for mammography was 40 year, and malignant cases were more in this group, above results are straightforward. FNAC resulted in 68% lesions to be classified as of benign nature and 32% as malignant/suspicious malignancy. Most common diagnosis in the benign group was fibroadenoma; Fibroadenomatoid hyperplasia classified separately here was diagnosis in 15 cases. Thirty nine patients had malignancy in which 32 had infiltrating ductal carcinoma, four patients had medullary carcinoma and three had colloid carcinoma.

**Discussion**

Our study was a retrospective study conducted over the period of one year with an aim of studying the prevalence of breast diseases in ASCOMS and Hospital. Out of 125 cases, 39(31%) persons had malignancy and rest 86 (69%) patients had a benign lesion. The maximum patients were in the age group of 21 to 30 years, mostly comprising of benign cases. Lump in the breast is a common premenopausal and post-menopausal physical finding in the female.

Carcinoma of the breast is the most common site specific cancer in women and is the leading cause of death from cancer for females 40-44 years of age. (9) Our study shows majority of patients had benign lump (68.8%). In the present study 125 patients age ranging from 10 years to 67 years with a median age of 24 years for the benign group and 45.4 ± 9.6 years in the patients with malignant lesion. This finding is similar to some other studies; 49 years10 and 46 years.(4)

Time interval since the patient noted the lump to the time of presentation for consultation reflects the awareness and 'access to health' of the population. In our study the mean time of presentation was 12.6 months with a range of 15 days to 60 months. Most of the patients presented for consultation after two to 12 months. Patients with benign disease presented much earlier than those with malignancy and this relation was statistically significant (p=0.001). Since many women are not used to comprehensive self-breast examination, it is not surprising that women would find a lump on self-palpation of her breasts after a bout of pain. Majority of women with malignant lesions (64.10%) had painless lump at presentation in comparison to 52.32% of patients who had painful lumps. As presented in above paragraph, the higher incidence of painful breast lumps could be one reason for benign disorders to present early for consultation. Only 36% of patients with malignant lumps had pain associated with the lump.

Breast pain in our population is less likely to be a symptom of breast cancer which is also compatible to a study by Khan SA et al.(12) Use of contraceptive for more than 5 years and its association to breast carcinoma has been a topic of discussion since decades. In our study, 20% of patients with benign breast lesions and 36% of women with malignant lesions had used oral contraceptive pills. Except for the two nulliparous women, all patients with malignant lesions had their first completed pregnancy by the age 20.

Similar is the findings on the women with benign lesions. Patients with benign lesions were much younger and had not yet married (26/86 i.e. 30.3%). Breast cancer cases, particularly premenopausal breast cancer patients, are seen at a young age with late menarche, early first full-term pregnancy, long duration of lactation and a large number of children.(12)

Similar is the findings in our study: 64% of the patients are in the age group of 31 to 50years, half of them (31%) in the age group of 31 to 40 years; patients with malignancy had late menarche i.e. nearly 50% of the patients had their menarche at or above 14 years; 87% of patients with malignancy had breast feeding for more than two years and 74% of the patients had two or more children.

The prevalence of smoking was low in our patients compared to national data (14.4% Vs 19.5%) however
there were significantly higher proportion of smokers among the patients with malignant lesions. It was surprising to find none of the patients with malignant lesions had a positive family history. So did the patients with benign lesions. This is possibly due to small sized sample of our study; partly also because of less availability of these facilities in the past.

All the lumps were found more commonly situated at the upper and outer quadrants of the breast, 68% of the benign lumps and 76% of the malignant ones; compatible to findings with other studies and also because of the anatomical organization of the breast volume: more than 3/5th of breast tissue lies in this quadrant. Most common diagnosis in the benign group was fibroadenoma followed FCC/FCD, fibroadenomatoid hyperplasia, juvenile fibroadenoma and phylloides tumor respectively. Infiltrating ductal carcinoma was the commonest malignant lesion.

**Conclusion**

Based on our study, we conclude that benign breast diseases especially fibroadenoma are commoner than malignant ones. Lack of proper knowledge and awareness about screening programmes; like selfbreast examination, clinical breast examination and triple assessment, so it is suggestive and recommended that significant improvements need to be made regarding availability of such programs to the rural population.

FNAC resulted in 68% lesions to be classified as of benign nature and 32% as malignant /suspicious malignancy. Most common diagnosis in the benign group was fibroadenoma; Fibroadenomatoid hyperplasia classified separately here was diagnosis in 15 cases. 39 patients had malignancy in which 32 had infiltrating ductal carcinoma, four patients had medullary carcinoma and three had colloid carcinoma.

**Reference**