ABSTRACT
This study comprising of 100 cases was done between 2017 and 2018 at Katuri Medical College & hospital, chinakondrupadu. The study group consisted of 94 female and 6 male patients.

This study was chosen, as 50-55% of women suffer from breast related disorders during their life time, and exclusion of serious pathology of the breast after evaluation, has a major reassuring effect on the patient.

The objectives were to study the benign breast diseases with regard to demographic factors and its clinical presentations and to evaluate it clinically, by FNAC and histopathology to increase the accuracy of diagnosis. A prospective study of patients attending surgical OPD and also admitted to surgical wards with breast disorders was done.

Patients predominantly presented with fibroadenoma and fibrocystic disease. Cases of gynecomastia, cyclical mastalgia and breast abscesses were also encountered. Most of the patients underwent FNAC and a few of them had mammograms done.

Treatment was mostly surgical in the form of excision, subcutaneous mastectomy, microdochotomy and incision and drainage. All the specimens were subjected to histopathological examination. Using clinical diagnosis, FNAC and histopathology increased the accuracy of diagnosis. Cases of fibroadenosis and cyclical mastalgia were treated conservatively with drugs.

In conclusion, benign breast diseases that fairly prevalent with fibroadenoma and fibrocystic disease comprising most of the cases. Patients who were anxious about their breast disease had much relief after it was proved benign.

INTRODUCTION
Benign breast diseases are more common than breast cancers. It has been noted that noncancerous pathology of the breast has always been neglected, compared to breast cancer inspite of the fact that benign conditions account for 90% of the clinical presentations related to the breast.

About 5-55% of all women suffer from breast disorders in their life time. They present most frequently between ages 20 and 50 with peak incidence reported at 20 to 24 years. Benign disorders of the breast are usually seen in the reproductive period of life, is thought to be largely hormone induced and there is a dramatic fall in the incidence, after menopause due to cessation of clinical ovarian stimulation. Benign breast disease is 4-5 times more common than breast cancer. There is no satisfactory classification for BBD. Presence of a wide variety of synonyms, inability of the clinicians to separate clinical from histological terms, further prevented development of knowledge regarding BBD. The concept of ANDI-Aberrations of Normal Development and Involution is gaining acceptance. Benign proliferations of the breast often considered as aberrations of normal development and involution. The clinician should clearly differentiate between benign and malignant conditions of the breast, and reassure. The patients after serious pathology is excluded, as it has a major psychological effect on them.

The present study aims at evaluation of the spectrum of benign breast diseases with regard to demographic factors, diagnostic modalities and treatment modalities. Malignant transformation of fibroadenomas is rare, occurring in less than 0.3%.

Most breast abscesses result from secondary bacterial infection from skin contamination. Although Staphylococcus aureus is by far the main pathogen, other microorganisms can be encountered, for example, Staphylococcus epidermidis, Streptococcus pyogenes, and anaerobes such as Peptostreptococcus and Bacteroides.

A sterile culture with absent growth of bacteria is reported in 21%–45% of cultures, although this may be a false-negative finding due to previous treatment with antibiotics.

Around 60% of all boys develop transient pubertal breast enlargement and 30-70% of adult men have palpable breast tissue, with the higher prevalence being seen in older men and those with concurrent medical illnesses.

OBSERVATIONS
The present study of 100 cases of benign breast diseases were studied during the period of study from 2017 to 2018.

1) Age incidence:
Youngest patient studied was— 12 yrs
Oldest patient studied was— 50 yrs
Most of the patients were in the age group of 16-30 yrs

Graph-1: No. of cases according to age & sex

On the whole, the benign lesions of the breast presenting in the 2nd and 3rd decade of life was 58%. It is more prevalent in female population (94%) than male (6%). The present study consists of 100 cases of which 94% are females & 6% are males.
Table 3: Symptoms of benign breast diseases

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Chief complaint</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Lump</td>
<td>55</td>
<td>55%</td>
</tr>
<tr>
<td>2.</td>
<td>Pain</td>
<td>5</td>
<td>5%</td>
</tr>
<tr>
<td>3.</td>
<td>Lump &amp; pain</td>
<td>7</td>
<td>7%</td>
</tr>
<tr>
<td>4.</td>
<td>Swelling</td>
<td>13</td>
<td>13%</td>
</tr>
<tr>
<td>5.</td>
<td>Fever, Pain &amp; Lump</td>
<td>10</td>
<td>10%</td>
</tr>
<tr>
<td>6.</td>
<td>Nipple discharge</td>
<td>9</td>
<td>9%</td>
</tr>
<tr>
<td>7.</td>
<td>Nipple discharge &amp; Lump</td>
<td>1</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>100</td>
<td>100%</td>
</tr>
</tbody>
</table>

Lump was found to have almost 55% incidence in the total sample. Least common symptom was nipple discharge with lump.

In the study patients mostly presented with lump in the breast (55%).

DISCUSSION

Hundred cases were analysed over a period of 2 yrs. On analysing the age incidence, it was found that the commonest age of occurrence was between 16–30 yrs. (58%) and about 95% before 5th decade of life, average age of 28.1 yrs. This illustrates the fact that benign breast disease commonly affects adolescents and young adults. Other studies like Foncroft LM et al., & Ratana Chaikanont Talso showed that the adolescent and young adults are commonly affected than the older individuals, more than 45 years of age. The occurrence of benign breast disease after 45 years of age was 6% in this series.

Benign breast diseases includes a heterogeneous group of conditions which range from normal, to aberrations in the physiology, to frank disease. The patients of BBDs generally present with one or more of these complaints – breast lump, breast pain or nipple discharge. It has been recommended that all the patients with discrete breast lumps should undergo a triple assessment to make an early diagnosis. By this approach, we provided the diagnosis of most of the benign breast conditions within 72 hours of the initial consultation.

It was found that 94% were female cases when compared to 6% of male cases. Patients presented with symptoms of lump alone or combination of lump with pain, enlargement of breast or discharge.

In the study of Foncroft LM et al., they found that 87.4% of the...
women who attended the Wesley Breast Clinic had presented
with breast lumps, while in the series of Ratana ChaikanontT a
breast lump was the presenting symptom in 72.38% of the
331 benign breast patients. The corresponding figure for our
study was 77%. The usual and commonest mode of
presentation was lump alone - 55% and associated with
pain in 22% with or with out fever. 76% of the patients
presented with in 6 months of the onset of the symptoms. This
early presentation could partially be due to the greater
awareness of the disease of the breast and fear that breast
lump could be malignant.

The right breast was involved in 49% of cases and left in 33%
of cases and bilateral in 18% of cases. Compared to 48% right
and 40% left and 12% bilateral in the study of Mima Maychet
B. Sangma et al...

It was found that the upper outer quadrant was commonly
involved. This was also supported by Oluwole series (New
York) which also reported involvement of outer and upper
quadrant commonly.

Most of the lesions in this series were small in size, ranging
from 2-5cm. Most of the lesions were excised under general
anaesthetics. Fibroadenoma was the commonest lesion with
52%. Fibrocystic disease was the next commonest with 18% of
cases. These figures correlate with those of Oluwole, New York
who found Fibroadenomas in 48% and Fibrocystic disease in
24% of cases. Our finding was in agreement with most of the
available literature on benign breast lumps, where the
frequency of fibroadenoma ranged from 46.8%-55.6%.

The peak incidence of fibroadenoma ranged from the 2nd to
the 3rd decade of life, which was consistent with the findings
of other studies.

FNAC was the quickest and the most reliable method which
helped in making the diagnoses of the breast lumps.

The fibrocystic changes were the next common condition in
our study and a majority of the patients belonged to the 25 to
35 years. In our study 18% of cases had Fibrocystic disease as
compared to 24% of cases in Oluwole, New York.

The incidence varies geographically. Many authors like
Adeosunkanmi AR, Aghabwuru EA and Ihekwaba FN
found that the incidence of the fibrocystic changes ranged
from 29.5-42.2% for the benign breast lumps. Most of the
patients with Fibrocystic disease presented lump in breast
followed by lump and pain. Involvement of the side and
quadrant were similar to that of benign breast disease in
general.

18 cases with lesions of fibrocystic disease, examined
clinically were subjected to FNAC and 16 were proved as
having fibrocystic disease.

The incidence of breast pain in our series was 22%, which was
nearly equal to the breast pain series, which ranged from
12.8%-30.3% Leis HP et al., reported that the incidence of
breast discharge was only 9% of all the breast complaints in
his study, which was equal to the 9% incidence which was
found in our study. The next common lesion was breast abscesses
constituting 13% of cases in this study. Four cases of ductectasia were treated by microdochectomy. In this study
there were 4 cases of family history of similar complaints among the first degree relatives. Seven cases gave
past history of similar complaints which were treated
surgically, 5 cases had lesion in the opposite breast and 2
cases in the same breast. Diagnosis of benign breast disease
were made by clinical examination and investigative
procedures. Routine investigations were done for all patients
and when required mammography was done.

The incidence of benign breast diseases begins to rise in the
2nd decade and it peaks in the 4th or 5th decades as
compared to the malignant lesions, for which the incidence
continues to rise after menopause. 24 number of cases among
88 female patients studied were unmarried.

Fibroadenoma

From the above data in this study it is evident that 2 groups
of benign breast disease i.e. Fibroadenoma and Fibrocystic
disease constitutes more than 65% of all benign breast
diseases.

The total number of Fibroadenomas in the present study were
the highest number constituting 49%. Hence we analysed this
lesion in some greater detail.

Our findings was in agreement with most of the available
literature on benign breast lumps, where the frequency of
fibroadenoma ranged from 46.6%-55.6%.

In this series Out of these 49 cases, 4 cases (86.5%) were
single fibroadenoma confined to one breast only including
fibroadenoma. There were 7 cases (13.4%) of multiple
fibroadenoma both unilateral & bilateral. There were 7 cases
(13.4%) of bilateral fibroadenoma.

In this series, the upper outer quadrant was involved in 29%,
with upper inner quadrant involvement in 10%, lower outer
quadrant in 9% and lower inner quadrant in 3%.

The subareolar area was affected on 5% in this series.

From this study, the most frequently involved quadrant was the
upper outer quadrant.

This study also compared the values of involvement of each
breast to fibroadenoma. It was found that Right breast in
fibroadenoma was involved in 25 (48%) and Left breast in 20
(38.4%) cases and 7 (13.4%) cases bilateral, whereas in
Oluwole (New York) right breast involved in 45%, left breast
42%, Bilateral involvement in 14% of cases. In this study none
of the pt reviewed for any recurrence, This study could not
assess relationship with oral contraceptives as none of our
patients took oral contraceptives.

The commonest age group of occurrence of fibroadenoma in
this series was 16-30 years which was consistent with the
findings of other studies. The earliest age at which this tumor
occurred in this study was 12 years and the oldest was 50 yrs.

This study found that lump alone was the most common mode
of presentation accounting for more than 80%. Other
complaints are swelling, pain. Cases of Bilateral
Fibroadenoma - opted to undergo surgery on both sides in
the same sitting. In this series one case had foci of calcification
in a case of Fibroadenoma.

Two cases had family history of benign breast disease among
first degree relatives for which surgery was done. All the
cases of fibroadenoma were accurately (100%) diagnosed
clinically when compared with post operative histological
pathological examination, FNAC was the quickest and the
most reliable method which helped in making the diagnoses
of the breast lumps.
**Fibrocystic Disease**

In this series, it was found that the fibrocystic disease constituted 18 cases (18%). This was comparable to the study of Oluwole who had 20% Fibrocystic disease in his series. It was also evident that fibroadenoma was more common in India than Fibrocystic disease, the possible explanation being early menarche, early marriage and multiparity of Indian women.

Fibrocystic disease was more frequent in this series between 20-35 years. On analyzing the symptomatology, most patients presented with lump in breast, followed by lump and pain, similar to that the benign disease in general.

Involvement of the side of the breast and specific quadrant in the breast almost followed that of benign breast disease in general. The upper outer quadrant was commonly (44.4%) involved.

Most of the lesions of fibrocystic disease were between 2-5 cm in diameter and surface was nodular. Mobility was restricted in majority of cases, while few were freely mobile.

This study encountered no family history of benign breast disease in 18 cases of fibrocystic disease.

Two patients had history of similar complaints in the past. Of these, 1 case lesion was present in the opposite breast and in 1 case on same side.

Out of 18 cases of fibrocystic disease, 15 cases were treated conservatively with capsule of evening primrose oil or tab Danazol for all cases for 3 months. Both responded well. But symptoms recurred after stopping evening primrose oil. But cases on danazol 100 mg OD for cyclical mastalgia, reported 50% reduction in 1-2 weeks and asymptomatic by the end of 1 month. Patients with nodularity were put on 200-400 mg danazol and they reported resolution of nodules by end of 3 months. Some patients discontinued the treatment as drugs were costly, and insisted on surgical excision which was done later. Some of the patients were anxious and not comfortable even after reassurance. Hence they were treated surgically but most educated women who were reassured, settled with conservative line of management.

**Breast Abscess**

This study encountered 12 cases (12%) of lactating and non-lactating breast abscess cases. The earliest case presentation was 3 days since the onset of symptoms, and one case presented with 14 days history. Average time of presentation was 3-6 days.

Lactating breast abscess treated by repeated aspirations, pts for whom requires repeated aspirations or pts not responding to conservative treatment were subjected to I&D, out of 7 cases of lactating breast abscess, aspiration is attempted to all of them along with antibiotics, abscess resolved in 4 pts., 3 of them not responding to repeated aspirations are subjected to I&D under the coverage of antibiotics, 5 cases of non lactating breast abscess were treated by incision and drainage, under the coverage of antibiotics.

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**Phyllodes Tumor**

This study encountered 2 cases (2%) of phyllodes tumor (Benign variety). Both cases measured >5x5 cms in size. One patient underwent simple mastectomy and another one underwent wide excision. The 2nd case was diagnosed as giant fibroadenoma by FNAC, but HPE proved it to be low grade phyllodes tumor. Both of them followed up to 15 months no recurrence was found.
In this study one case of tuberculosis of breast is encountered, which presented as discharge from nipple, pain in both breasts, no cyclical mastalgia, no h/o chronic cough h/o fever present low grade intermittent more during evenings, h/o night sweats present, h/o loss of wt. loss of appetite present, o/e multiple scars present over both breasts around areola, central group of axillary lymph nodes enlarged non tender, matted, present with B/L nipple inversion , diagnosed it as fibrocystic disease, nipple discharge sent for cytology revealed chronic inflammatory cells , ZN staining revealed AFB, axillary lymph nodes FNAC s/o tuberculosis, pt sent to dept. of chest & TB, for evaluation of tb and treated with ATT for 9 months. Most of the cases of benign breast disease occurred in reproductive age group (95%), and in the upper outer quadrant with fibroadenoma being the most frequent problem.

Fig-11 Brownish Discharge from Nipple

Multiple healed scars with inversion of Nipple on both sides

The standard treatment advocated was followed for all cases, where necessary minor adjustments were made. Surgical treatment was the mainstay of treatment. For most of the cases circumareolar incision was used, the follow up was from 3 months to 1-½ yrs. The present study of benign breast disease in a teaching hospital revealed that they were more frequent than generally expected. Most of the cases of benign breast disease occurred in reproductive age group (98%), and in the upper outer quadrant with fibroadenoma being the most frequent problem.

There were good correlation between clinical diagnosis, FNAC to HPE with respect to fibroadenoma and fibrocystic disease. Surgical treatment and medical line of management respectively for these cases were successful with resolution of pre-operative symptoms.

The present trend of conservative management of most benign breast disorders has reduced number of surgical procedures for these conditions. However in view of the anxiety regarding symptoms, distance to be travelled, poor socioeconomic conditions leading to difficulty in follow up, quite a few patients opt for an early surgical method of resolution of symptoms.

CONCLUSION

BBD occupy majority of total breast diseases. This study of 100 cases includes the clinical profile and management of BBD.

Fibroadenoma was the most commonest benign lesion encountered (49%) followed by fibroadenosis (18%) and breast abscess (12%). Fibroadenoma presented most often in the second and third decade while fibroadenosis present a decade later.

Lump in the breast was the commonest presentation of BBD, pain was the second commonest symptom of BBD. Diffuse nodularity and nipple discharge are other symptoms that are seen in benign breast diseases.

Majority of BBD presented as lump ranges from 2-5cm and were located in upper outer quadrant.

Fibroadenoma remains a diagnostic challenge. A considerable amount of benign breast lesions can mimic fibroadenoma on cytology and such diagnostic categories as “fibroadenomatous lesion” or “consistent with fibroadenoma” are associated with low diagnostic accuracy. While the cytologic requisites for entering a program of conservative management of broadeno ma are established, it seems the strict diagnostic criteria should be applied even at the expense of diminishing sensitivity.

There is increasing evidence that conservative approach is acceptable in adolescents patient who choose conservative management need to be informed about the limitation of the test and must be assessed properly if there is symptomatic and clinical changes. Hence the fibroadenoma in adolescence can be treated conservatively, however in an adult women by triple test is a prerequisite for conservative management. Cytological study is useful in confirmation of diagnosis of benign lesion of the breast. It also

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help in the conservative management of small lumps and to avoid unnecessary surgical intervention.

REFERENCES


