

Management of phyllodes tumour (*Arbuda*): A case report

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CASE REPORT

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ABSTRACT

Breast lumps of benign types are the commonest type of breast disease amongst 40 per cent of female population. The chances of the growth being malignant make patients apprehensive. Phyllodes tumour involving the stroma of the breast is a common among females of around 40 years of age. Acharya Sushruta has advised *Chedana of Arbuda* i.e. excision of tumour to avoid recurrence. Considering the chances of recurrence surgical treatment of phyllodes is successful if excision is clubbed with mastectomy of the surrounding breast tissue.

A 65 years woman suffering from breast lump for 2 years was diagnosed with Phyllodes tumour clinically as well as with radiological aids. Malignancy was ruled out as per diagnostic criteria. Excision of the lump with 1cm margins was carried out as per surgery protocol. Biopsy report confirmed the diagnosis of benign phyllodes tumour. Patient has been stable since last one and a half year and recurrence has not been noticed. Thus, it can be concluded that an organised approach towards benign lesion like phyllodes tumour can help to alleviate anxiety and fear of patients.

Key Words

Phyllodes tumour, *Arbuda*, Benign breast lump, Excision, *Chedana*

Background

Breast lump is a quite common presentation in Indian women. It is more found in women of reproductive age. According to a study almost 25 per cent of women experience sort of breast disease in their lifetime¹. Majority of breast disease are of benign origin. Approximately 40 per cent cases of benign breast diseases present as lump in breast². The problem is that Patient associates every breast lump with cancer and hence is afraid of it.

Statistically also being the most common type of cancer in women, breast cancer accounts for 14 per cent of cancers in Indian women. Post cancer survival for women with breast cancer was reported 60 per cent for Indian women, as compared to 80 per cent in U.S. In India lack of awareness and poor early screening and diagnosis rates has resulted in this low survival rate³. Clinician must be particular in taking all cares to exclude carcinoma by proper history taking, clinical examination, and radiological aids such as mammography, ultrasonography and cyto-pathology analysis. If Diagnosis protocol results in benign lump of breast the treatment becomes easy for surgeons and a great comfort for patient too.

Phyllodes tumour is one of the benign lesions of breast. However, it can be locally aggressive (borderline) and sometimes metastatic also. It is also known as Cystosarcoma Phyllodes, Serocystic Disease of Brodie. Clinical manifestation of Phyllodes includes a tumour which attains large size quite quickly with prominent subcutaneous veins on it⁴. It is fearsome for many patients. However, complete cure can be assured after exclusion of malignancy proper mastectomy.

Case report

A 65 years old female patient presented with huge lump in right breast. She felt Lump first time before 2 years, which increased in size rapidly from last six months. There was no pain but patient was feeling heaviness in breast due to weight of lump. On examination Tumour was involving almost entire breast tissue. Subcutaneous veins above tumour were dilated and visible (Figure 1). Skin over tumour was stretched and shiny, nipple was not retracted, there was no discharge from nipple (Figure 2). On palpation it was observed that skin over the tumour was not fixed to it. Tumour was also mobile from deep pectoral muscles. Margins of the tumour were smooth and consistency was firm. Axillary lymph nodes were not palpable. Clinically provisional diagnosis was more of between Giant Fibroadenoma and Phyllodes tumour. Patient was advised FNAC of breast lump. Cytological features were suggestive of borderline Phyllodes tumour (Figure 3). For further investigation CT chest plain and contrast was done. Report stated a large well defined lobulated hypodense lesion of size 10 X 14 X 13.8cm (AP x ML x SI) in right breast parenchyma likely of neoplastic etiology. Fat planes and pectoralis muscle were maintained as there was no infiltration in deeper tissues. No lymphadenopathy in axillary region was observed. There were no signs of metastasis in liver, lungs or visualized bony part (Figure 4). As malignancy was ruled out, excision of the lesion was planned. Lump was occupying almost entire breast, so simple mastectomy was the procedure of choice. Type of procedure, anaesthesia and probable consequences of surgery were explained to patients and her relatives. Chances of recurrence were also explained to patient. Patient was non diabetic and normotensive. No history of bronchial asthma, no known drug allergy, no history of previous surgery or any other major illness recorded. Routine preoperative blood investigation, ECG was done. Physician fitness for surgery under Short General anaesthesia along with additional local anaesthesia was taken. Consent was obtained. Patient was kept nil by mouth prior surgery. In supine position painting, draping and isolation of breast area is done. Under Short General Anaesthesia (Inj Propofol) elliptical incision was taken on right breast including nipple, areola and part of skin around. Margins of tumour were easily palpable and not fixed to skin. Dissection around lump was carried out on medial and lateral surface sparing 1 cm margin. Vessels encountered during separation were ligated with 2-0 vicryl and coagulated. Adjuvant local anesthesia was given using Inj. Bupivacaine 0.5 per cent and Inj. Lignocaine 2 per cent with Adrenaline (1:100000). Lump was not adhered to deeper structure hence posterior dissection was carried by

giving traction and exposing pectoralis muscle below (Figure 5). After complete excision from muscle layer bosselated surface was observed on posterior part of tumour with smooth margins (Figure 6). Haemostasis achieved, wound was washed with Normal saline and Povidone iodine solution, closed in layers with 2-0 Vicryl. Skin closed with 2-0 Ethilon. Corrugated drain was kept in through lateral dependent part of sutured wound (Figure 7). Operative procedure was uneventful. In Post-operative period patient was stable with routine treatment. Excised tumour weighed 820gm (Figure 8). Part of excised tumour was sent for histopathology. Biopsy report confirmed diagnosis as benign Phyllodes tumour (Figure 9). There was minimal soakage after 5 days so drain was removed. Regular dressing was done. Sutures were removed after 12 days. Patient is being monitored from almost one and half years now. No recurrence is observed yet. (Figure 10)

Discussion

In India every 28th women are likely to develop breast cancer in her lifetime³. Hence every patient of breast lump should be looked seriously. Even though most of the breast lumps are of benign origin, a well-structured and detail approach is required in every case. Big size tumour like Phyllodes is fearsome for patients and their relatives. But critical evaluation of lump gives idea about diagnosis, treatment and prognosis. In this case patient was of 65 years. Phyllodes tumour is not common in this age, however clinical presentations were typical. Protocol of Clinical examination followed by cytology, radiological imaging and histopathology after excision was carried out. As the initial diagnosis was of borderline Phyllodes tumour, despite malignancy was ruled out by CT chest, simple mastectomy was done sparing 1cm tumour margins. Because there are 19 per cent chances of local recurrence after excision⁵. In Ayurveda tumour is termed as *Arbuda*. According to Acharya Sushruta, a tumour should be excised⁶. However incomplete excision of tumour leads to its recurrence⁷. There was no recurrence after follow up of patient for about 18 months.

Conclusion

A well-structured approach in patients of breast lump helps for specific diagnosis. Triple assessment path way of Clinical examination, radiological imaging and pathological analysis should be followed. If malignancy is ruled out surgical excision of Phyllodes is definitive treatment. Considering the recurrence of Phyllodes, excision with 1cm tumour margin is useful for better prognosis.

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Figures

Figure 1: Anterior view. Large size of Phyllodes tumour occupying entire breast, Prominent subcutaneous veins over tumour.



Figure 2: Antero-lateral view. Stretched-shiny skin over phyllodes tumour, Nipple non-retracted, No discharge from nipple.



Figure 3: FNAC Report suggesting borderline? Phyllodes tumour.

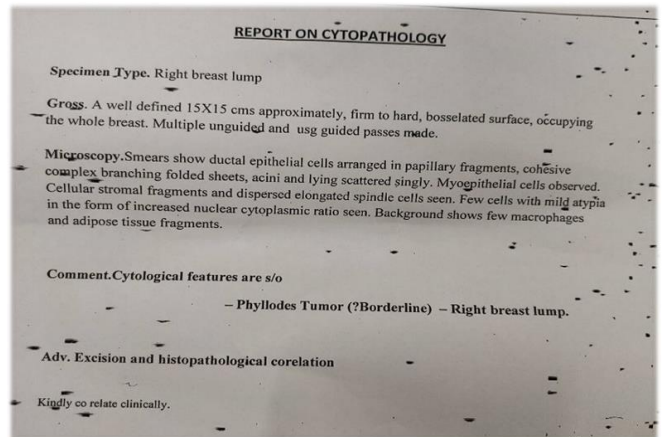


Figure 4: CT Chest report showing No metastasis

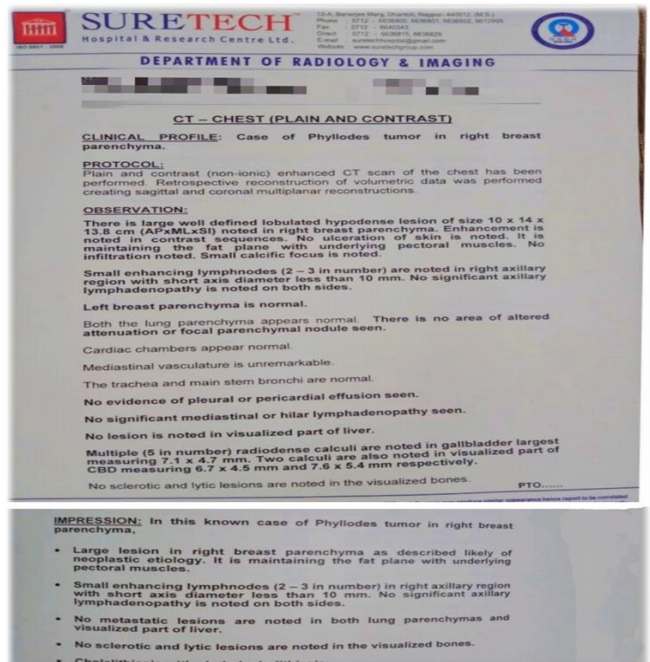


Figure 1: No fixity to pectoralis Major Muscle.

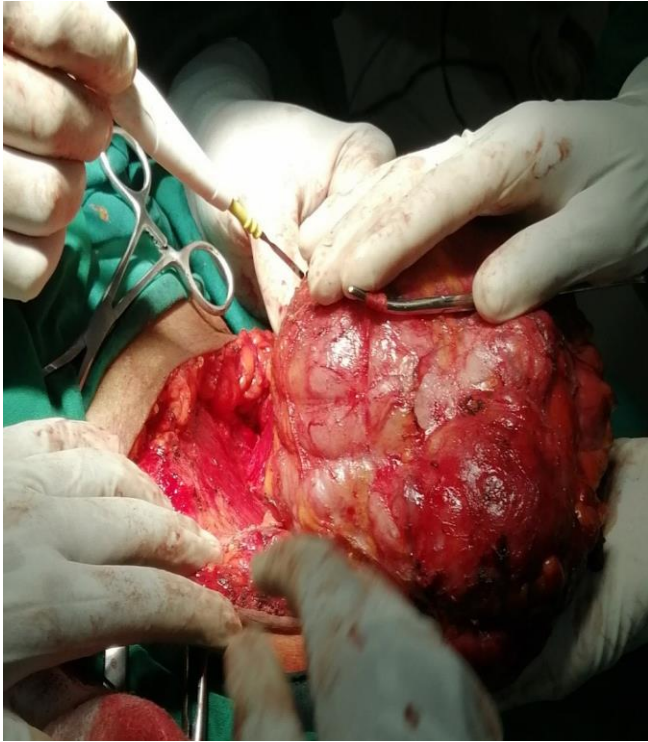


Figure 7: Post operated Sutured wound.



Figure 6: Bosselated surface of phyllodes tumour.



Figure 8: Excised phyllodes tumour (Simple Mastectomy).



Figure 9: Histopathology report Confirming benign Phyllodes tumour.



Figure 10: Follow up after 18 months. Healed mastectomy wound.

