An Adolescent with a Phyllodes Tumor: A Case Report and Review of Literature

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Abstract: Phyllodes tumors are rare fibroepithelial tumors that represents 0.3 to 0.9% of breast tumors in woman. Presentation in young girls is even rarer. In this paper, we describe a case of an adolescent with a phyllodes tumor. The rare presentation at this age, its distinguishing features, the preoperative diagnostic difficulties, and the management protocols of this uncommon tumor are highlighted.

Keywords: phylloide tumor, tumor of the breast, child, surgery.

1. INTRODUCTION

The phyllodes tumors of the breast constitute a particular entity in the mammary pathology: they represent less than 1% of all the tumors of breast. They are rarely seen in adolescents, with only about ten cases reported [1]. Here we report a case of a child with a right breast mass that histopathology of the operative specimen revealed to be a benign phyllode tumor.

2. OBSERVATION

We report the observation of a 12-year-old girl, admitted to right breast mass. Having as a family antecedent a maternal aunt operated for breast neoplasia.

The beginning of the symptomatology dates back to 3 months ago by the self-examination of a firm mass slightly painful in the right breast, gradually increasing in volume, which motivated a consultation.

The examination found a swollen right breast with inflammatory signs opposite a palpated mass at the junction of the two upper mobile quadrants measuring 5.5 cm in diameter without ipsilateral lymphadenopathy (Figure 1).
Breast ultrasound revealed a tumoral process occupying almost the entire right breast, very heterogeneous micro-lobulated irregular contours containing venous lakes measuring 84 * 60 mm, aspect in favor of a phylloide tumor probably high grade. A microbiopsy was performed in favor of a juvenile fibroadenoma whose evolution was marked by the significant increase of the volume of the mass after the refusal of the patient of the surgical treatment (figure 2).

A second biopsy done 4 months later in favor of a phylloide tumor of intermediate grade.

The patient underwent a right mastectomy because of the volume of the tumor (figure3) whose anatomopathological study is compatible with a benign phylloide tumor of grade I.

3. DISCUSSION

Malignant breast pathology in children and adolescents occurs in less than 0.9% of cases, leading to a different breast mass than in adult women. Pediatric mammary masses of tumoral origin are generally benign and 95% of the cases are benign fibroadenomas [2].

Phylloide tumors of the breast are fibroepithelial tumors similar to fibroadenomas, but with a predominant component of connective tissue, a greater frequency of recurrence and sometimes malignant evolution. They classically have a foliated structure in the cup, hence their phylloide name (in Greek phyllos means leaf) (3). Phylloides tumors are distinguished benign tumors, intermediate malignancy or malignant.

They can be met at any age, but the median age is the fifth decade of life. Her teenage onset is rare. Only 8% occur in children under 20 years old. The youngest age in the literature is 10 years old (4).
Since their first description, by Johanne Muller in 1938, phyllodes tumors remain a subject of controversy as to their terminology, their histological classification, their treatment and their evolutionary character.

Fibroadenomas and phyllodes tumors share many common features. Clinically, they present themselves as rounded, circumscribed and mobile masses. Histologically, both can be grouped into "fibroepithelial lesions".

Preoperative diagnosis is difficult to diagnose because of the fine needle aspiration and central needle biopsy may not be able to distinguish a phylloide tumor from a fibroadenoma.

Indeed, only the anatomo-pathological analysis of the whole of the operative part makes it possible, on the condition of an abundant sampling, to specify the diagnosis and its histopronosis.

All clinical studies recommend performing an enlarged lumpectomy with a minimum margin of safety of 10 mm to prevent recurrence (5). Enucleation is proscribed [6]. The realization of a mastectomy is indicated for tumors larger than 5 cm, and grade 3.

All phyllodes mammary tumors, whatever their grade, may re-induce locally and all have a metastatic potential [7]. Recurrence occurs two to three years after surgical excision [3]

4. Conclusion

The phyllodes tumors of the child and the teenager are very rare ones.

Our observation illustrates the difficulties of differential diagnosis of this type of tumor whose basic treatment at present is dominated by surgery.

REFERENCES


