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Phyllodes Tumors: What is the Best Therapeutic Option?



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Abstract

Phyllodes tumors of the breast are a rare tumor, accounting for only 1% of breast tumors. It has a fast growth, resembling fibroadenoma in its shape. It is classified as benign, borderline and malignant. It has a high relapse rate, with 27% in malignant tumors. And globally they metastasize in about 4% of the cases, being usually hematologically. From the moment of the diagnosis made by the anatomopathological study, the best therapeutic option consists of surgical resection with free safety margins, and it can be extended to mastectomy without axillary dissection in the case of malignancy or tumors with a larger diameter. The use of adjuvant therapies still remains questioned.

Keywords: Phyllodes tumors; Breast neoplasms; Therapeutics

Introduction

Being reported in 1838 by Johannes Muller, phyllodes tumors of the breast are fibroepithelial neoplasms, similar in form to fibroadenoma [1-3]. Since 2003 it has been classified by the World Health Organization in: benign, borderlines and malignant. According to the degree of atypia, mitotic activity, tumor margins characteristics and the presence of stromal development [4]. It is a rare tumor, with only 1% of breast tumors, 2% to 3% of fibroepithelial tumors and the most frequent sarcoma of the breast. It has a higher incidence between 35-55 years old [4]. They are tumors that start as palpable small but rapidly growing nodules. Its diagnosis must be made by anatomopathological examination, through histological findings-fibroepithelial lesion, stromal proliferation, hypercellularity and elongated and tortuous ductal components, with leaf-type endoluminal stroma projections [5]. The best therapeutic option consists of surgical management due to high relapse, with a recurrent rate of 27% in malignant tumors, 25% in borderlines and 17% in malignant tumors. The determining factors for relapse are related to the histological type, stromal atypia, stromal hypercellularity, and spreading margin [5].

The overall metastatic indexes of phyllodes tumors are 4%, and in the malignant tumors an isolated index of 25%. The main pathway of metastasis is hematogenous, and lymph node involvement is not common. When dissemination occurs, the most common locations are: lung, followed by soft tissue, bone and pleura [5]. The increased risk of metastasis occurs according to the time of diagnosis, tumor size and presence of necrosis

[1]. The survival rate for malignant tumors is reported as about 60 to 80% over 5 years [6]. The possible differential diagnoses for malignant phyllode tumor are: giant fibroadenoma, mastitis, breast abscess, complicated breast cyst, inflammatory carcinoma and breast trauma [5].

Therapeutic Options

Malignant phyllodes tumors have a high recurrence rate, reaching 27% in some studies and a metastatic rate of 25%, in addition to the psychological and aesthetic morbidity in which these patients undergo [5]. Therefore, in a series of literature review, all studies are categorical in pointing to surgical treatment as the best therapeutic option, but there are still differences regarding local resection with negative margins or simple mastectomy-without lymph node emptying by hematologic pattern of metastasis - and also the association with radiotherapy, chemo or hormone therapy.

Surgical resection

Surgical resection is the therapeutic choice and malignant phyllodes tumors or tumors with benign characteristics greater than 5 cm are recommended for extensive local excitation or mastectomy without axillary emptying. Tumorectomy with margins of 1 to 2cm is recommended only for small (<5cm) and benign tumors [6-9].

Adjuvant treatment

Although studies on the use of adjuvant therapies are found, nothing is conclusive, insofar as most studies have a

small sample 'n' or segment below 10 years or still show low statistical significance when compared to control groups [8-10]. It is necessary to individualize the use or not of adjuvant therapy according to tumor histology, mitotic activity, stromal cell hyperplasia and degree of atypia [1,11]. As an example of the possibility of intervention with adjuvant therapy, there are tumors with incomplete resection and tumors with a diameter > 5cm and with histological evidence of excessive stromal growth because they have a higher metastatic potential [3,12].

Conclusion

Since phyllode tumor of the breast is a relapsed neoplasm of recurrence and a high chance of malignancy in borderline cases, the first-line treatment option for small tumors (<5cm) and benign tumors is surgical resection with margins of 1 to 2cm. Malignant tumors or larger than 5cm in diameter require mastectomy without axillar emptying. The use of adjuvant therapies is still discussed. Until there is a large study confirming and affirming its use positively, it is recommended to individualize each case.

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