Congenital Presentation of a Solitary Superficial Angiomyxoma in the Parotid Region Masquerading as Parotid Tumor

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ABSTRACT

Superficial angiomyxoma is a rare cutaneous and benign lesion. We present a case of congenital presentation of a superficial angiomyxoma in the parotid region in a 9-year-old female that was misdiagnosed as a parotid tumor. Appropriate diagnosis is important since such lesions have a good prognosis and rarely affect deeper structures. Possibility of superficial angiomyxoma should be kept in mind in the differential diagnosis of lesions of the parotid region.

Key Words: Congenital, Superficial angiomyxoma, Parotid

INTRODUCTION

Superficial angiomyxoma is a rare cutaneous, benign lesion that is still poorly recognized. When located in the parotid region, it can easily be misdiagnosed as a parotid tumor. It is located in the dermis with frequent extension to the subcutis. It is multilobulated and individual nodules show moderate to sparse cellularity with a background of myxoid stroma (1-3). This case is being reported because of the congenital presentation of a solitary superficial angiomyxoma in the parotid region, which is rare.

CASE REPORT

A 9-year-old girl presented with a swelling below the right ear, which was present since birth and was gradually increasing in size. There was no relevant medical history. On examination a 3x2cm firm, mobile, non tender mass was palpable below the right pinna at the angle of the mandible, in the parotid region. The overlying skin was normal. No lymph nodes were palpable. Fine needle aspiration cytology was performed and showed abundant fibromyxoid stroma. A possibility of pleomorphic adenoma was suggested, although no epithelial component was seen. The mass was excised through a superficial parotidectomy incision. A globular grey brown tissue measuring 3x2x1cm was received. It was encapsulated and the cut surface was soft and gelatinous. On microscopy, many variable blood vessels separated by fibromyxoid stroma were seen (Figure 1). There was presence of stellate cells, muciphages, mucin, neutrophils and lymphocytes in the stroma (Figure 2). There was no mitosis, hyperchromasia or pleomorphism. The features were consistent with the diagnosis of superficial angiomyxoma. No parotid tissue was identified in any of the sections examined. The stroma was CD34 and SMA positive and S-100, pancytokeratin and desmin negative, blood vessels were CD34 positive on immunohistochemistry. General physical examination, imaging studies and laboratory findings were noncontributory. There was no evidence of any pigmented skin lesions, endocrine tumors or overactivity, schwannomas or myxomas elsewhere, ruling out Carney’s complex. A final diagnosis of a congenital, solitary superficial angiomyxoma of the parotid region was made. Subsequently, the patient was lost to follow up.

DISCUSSION

Superficial angiomyxoma, first described in 1988 (1) is a rare benign, cutaneous tumor of adolescents and adults that has a predominant occurrence in the region of the maxillary and mandibular bones (2). In the head and neck region, it has been described on the head, lower eyelid, preauricular region, external ear and upper alveolus (3,4). Rarely, congenital occurrences have been reported (5). Histologically, superficial angiomyxoma is a dermal-based lesion with frequent extension to the subcutis. It is multilobulated, with poorly defined margins. Individual nodules are moderately to sparsely cellular with copious basophilic interstitial material. Spindle and stellate cells are

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seen in the myxoid stroma. Mitotic activity is sparse. Rarely, epithelial component is seen and represents entrapped adnexal structures or adjacent squamous epithelium (3).

Superficial angiomyxomas in the parotid region are extremely rare. Rodriguez et al have previously reported one such case in the parotid region in a 61-year-old male (6).

The differential diagnosis includes benign and low-grade malignant myxoid lesions including aggressive angiomyxoma, focal cutaneous mucinosis, myoid neurothekeomas, myoid neurofibroma, acral fibromyxoma and myxoid liposarcoma (7). It is important to differentiate it from these lesions since superficial angiomyxoma has a propensity for local recurrence.

Aggressive angiomyxoma is larger, situated deep, usually in the female pelvis and the blood vessels are large, thick walled and prominent. Focal cutaneous mucinosis lacks lobular architecture, epithelial structures and neutrophils in the stroma. Superficial acral angiomyxoma is almost exclusively found on the fingers and toes in middle age and lacks a neutrophilic infiltrate (8). Myoid neurothekeoma has a prominent lobular growth pattern and is characterized by plump cells that are S-100 positive. Myoid neurofibroma has cells with buckled nuclei that are S-100 positive. Myxoid liposarcomas are deeply situated and larger with chicken wire vascular pattern and lipoblasts. Myxofibrosarcoma has more marked nuclear atypia and hyperchromasia with presence of curvilinear blood vessels lined by cells with hyperchromatic nuclei (7).

At this site, the differential diagnosis includes parotid gland tumors as well as cysts of the first branchial arch (5). Fine needle aspiration cytology can be confusing as in our case.

Superficial angiomyxomas have an overall good prognosis as these lesions remain superficial without affecting deeper structures. Appropriate diagnosis, complete surgical treatment and close follow up are advised.

In conclusion, the case highlights the importance of distinguishing superficial angiomyxomas from other lesions that occur in the parotid region. One should be cautious about reporting pleomorphic adenoma on smears showing abundant fibromyxoid stroma.

CONFLICT OF INTEREST

The authors declared no conflict of interest.

REFERENCES

