A Case Report of Carcinoma ex Pleomorphic Adenoma

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INTRODUCTION

Carcinoma ex-pleomorphic non-malignant tumour (Ca ex PA, CXPA) is a rare, aggressive, poorly understood malignancy of the exocrine gland. The clinical findings typical of this neoplasm embrace history of a slow growing, ulcerated, painless mass that enlarges speedily. The current definition of Ca ex PA became widely accepted in the second half of the twentieth century. It is uncommon, having a prevalence rate of 5.6 cases per 100,000 malignant neoplasms and a yearly incidence rate of 0.17 tumours per 1 million persons in the world. The cancer is found predominantly in the sixth to eighth decades of life and is slight female predilection.

KEYWORDS: Ex-pleomorphic, Tumour, Malignant, Carcinoma

CASE REPORT

A 48 year old male patient came to the department of Oral Medicine and Radiology with a chief complaint of a growth on the left side of the face since two years. The growth was initially small and gradually increased to the present size. There was history of associated pain since 1 month. Medical and past dental histories were non-relevant. General physical examination was non-contributory. Extra-oral examination revealed a growth of size 5x6 cms on the left side of the face extending anteroposteriorly 2 cms from corner of mouth to 5 cms posteriorly to the ear lobe. The post auricular area had a 7x8 mm growth [Figure 1(a) and (b)]. Skin over the growth was normal. There was no surface rise in temperature. It was slightly tender on palpation, soft-firm in consistency. It was non-fluctuant, slightly compressible but non reducible.

Diascopy test was negative. On intra-oral examination, no abnormality was detected. On the basis of history and clinical examination of the growth, a provisional diagnosis of a malignant tumor of the salivary gland was given. A differential diagnosis of other malignant tumors was considered. The patient was sent for further investigations which included MRI (Figure 2) which confirmed the diagnosis of Carcinoma ex Pleomorphic Adenoma.

DISCUSSION

Pleomorphic adenoma is the most common benign salivary gland neoplasm. The terms pleomorphic adenoma and mixed tumor both represent attempts to describe this tumor’s interesting histopathologic...
features. Malignant mixed tumors represent malignant counterparts to the benign mixed tumor or pleomorphic adenoma. These are a group of rare neoplasms which constitute 2% to 6% of all salivary gland tumors.\textsuperscript{8,9} The most common of these is the carcinoma ex pleomorphic adenoma, which is characterized by malignant transformation of the epithelial component of a previously benign pleomorphic adenoma. The carcinosarcoma is a rare "mixed" tumor in which both carcinomatous and sarcomatous elements are present. The metastasizing mixed tumor has histopathologic features that are identical to the common pleomorphic adenoma. The lesion metastasizes despite its benign appearance. The metastatic tumor also has a benign microscopic appearance, usually similar to that of the primary lesion.\textsuperscript{8-10}

Carcinoma ex pleomorphic adenoma can be regarded as a malignant change in the previous benign tumor. The age of the patients is older than those affected by pleomorphic adenoma. Patients report of a growth present since many years and a recent history of pain can be reported.\textsuperscript{11}

It is most common in the parotid salivary glands. This is similar to the location of the tumor in the present case. Intra-orally, two-thirds of the cases have been documented on the palate. Ulceration may also be present.

Histopathologically, areas of typical benign pleomorphic adenoma usually can be found and may constitute most or only a small portion of the lesion. Within the tumor are areas of malignant degeneration of the epithelial component characterized by cellular pleomorphism and abnormal mitotic activity.\textsuperscript{12}

The differential diagnosis includes other malignant tumors such as mucoepidermoid carcinoma, adenoid cystic carcinoma, acinic cell carcinoma.\textsuperscript{13}

Treatment plan includes complete parotidectomy with preservation of the facial nerve. Radiation therapy also has been proven useful. Well differentiated tumors have a favorable prognosis whereas poorly differentiated tumors have poor prognosis.

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**LEGENDS**

Figure 1(a) and (b). Growth on the left side of the face of the patient since two years

Figure 2. MRI of the lesion confirming the diagnosis