INTRODUCTION

Sclerosing Polycystic Adenosis (SPA) is a rare disease of the salivary glands, first described by Smith et al.1 in 1996, with histomorphological aspects similar to those from breast fibrocystic disorders.1 Its pathogenesis is still unclear; however, it is considered a pseudo-neoplastic or reactive process.2,3 Recently, Škalová et al.4 showed clonality in six SPA cases.

SPA affects mainly the parotid and submandibular glands, being much less frequent on the minor salivary glands.1 Here, we report a case of SPA in a minor salivary gland and we discuss its histomorphological aspects.

CASE PRESENTATION

Female, African-Brazilian, 82 years old, came to us complaining of pain in the mouth floor when using her full mandible dentures and an ulcerated, reddish and firm nodule, measuring 2cm in its longest axis. The patient was instructed to refrain from using her dentures and after 15 days she returned for nodule reassessment - which remained unaltered. With clinical suspicion of an erythroplastic lesion, we carried out histological examination of a biopsy. The lesion was characterized by fibrous nodules permeated by interconnecting tubules, sometimes atypical and vacuolated cells, followed by sparse mononuclear inflammatory infiltrate. Immunohistochemistry showed that the tubuloacinar elements which were positive to CKA1/E3, EMA, S-100, smooth muscle actin, GCDFP-15 and Ki-67 antibodies marked less than 1% of the cells. Estrogen, progesterone and CK 34BE12 were negative. SPA was diagnosed on the mouth floor, and the patient was later on submitted to total lesion excision. After 24 months there were no signs of recurrence.

DISCUSSION

The literature has approximately 35 cases of SPA reported so far, with only four of those involving minor salivary glands. Therefore, this is the fifth case of minor salivary gland SPA.

Since this is a rarely described lesion, there is no characteristic clinical data for it. Smith et al.1 published a series of 9 cases, in which the average age of the patients affected by this problem was 28 years, with mild predilection for females. Gneep et al.2 reported an average age of 44.5 years and a mild predilection for men. An increase in nodular volume by slow growth, as we had in our case, is one of the most common clinical aspects.

The histomorphological aspects hereby described fit those established for SPA. The lesion was made up of fibrous nodules, permeated by interconnecting tubules, either ectatic or with apocrine metaplasia (Figure 1). Some ductal elements were hyperplastic and there were atypic and vacuolated cells, followed by sparse mononuclear inflammatory infiltrate. Immunohistochemistry showed that the tubuloacinar elements which were positive to CKA1/E3, EMA, S-100, smooth muscle actin, GCDFP-15 and Ki-67 antibodies marked less than 1% of the cells. Estrogen, progesterone and CK 34BE12 were negative. SPA was diagnosed on the mouth floor, and the patient was later on submitted to total lesion excision. After 24 months there were no signs of recurrence.

The histomorphological aspects hereby described fit those established for SPA. The lesion was made up of fibrous nodules, permeated by interconnecting tubules, either ectatic or with apocrine metaplasia, also showing cell vacuolization and atypia.1,2,5 According to Cheuk, Chan3, SPA histological aspects are still not very known and, often times, such lesion is diagnosed as a malignant neoplasia, and a highlight among them is the ducal carcinoma1,2,5, cystic-adenocarcinoma, acinar cell carcinoma and mucoepidermoid carcinoma1. Sclerosing sialoadenites has also been included.1,2,5

Immunohistochemistry for proteins S-100 and smooth muscle actin, from the case presented, showed the presence of myoepithelial cells in the tubule-acinar elements of the lesion.1,2. The presence of such cells shows that despite the cell atypia seen in the SPA, the glandular ducts are functionally normal.2 Gneep5 was also positive for cytokeratin and EMA in the ductal and acinar cells. Immune-staining for estrogen, progesterone and GCDFP-15 has also been described,3,5 suggesting the participation of hormonal factors in the SPA pathogenesis. In this case, GCDFP-15 was positive; however, it is necessary to have the immunohistochemical study of other cases in order to establish the histogenetic profile of SPA.

SPA’s treatment is based on lesion excision - with safe margins. Follow up must be careful because recurrences are common.2,6

FINAL REMARKS

SPA’s diagnosis must be carefully considered, especially because of its histomorphological similarity with different malignant neoplasias of the salivary gland.

REFERENCES