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內文：

### Introduction

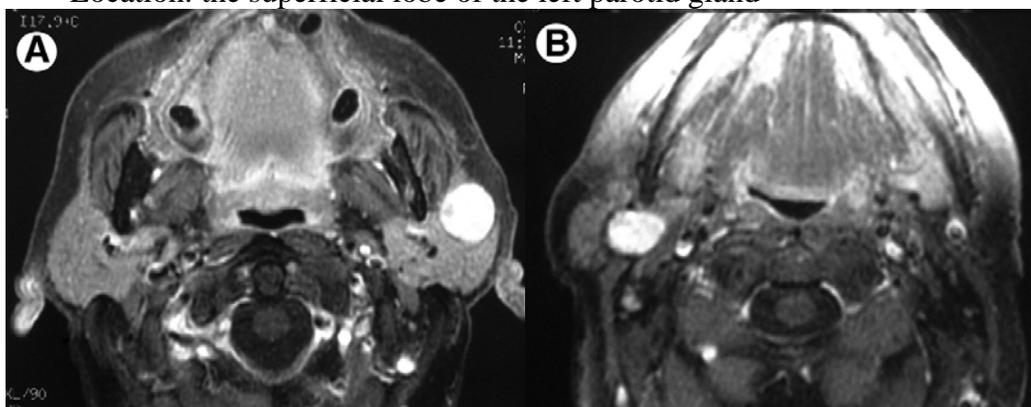
Basal cell adenomas (BCAs)

- Uncommon benign tumors of the salivary glands
- An independent entity in the second edition of the Salivary Gland Tumours Classification of the World Health Organization
- Approximately 1% to 2% of all salivary gland epithelial tumors
- Occurrence of bilateral basal cell adenomas is extremely rare

### Case Report

Metachronous bilateral parotid BCA without coexisting dermal cylindroma

- 65-year-old woman
- For evaluation of a palpable mass in the left parotid region in 2003
- Hard, movable, and non-tender mass measuring about 3X2 cm
- No facial palsy or regional lymphadenopathy
- Fine-needle aspiration cytology: inconclusive
- Magnetic resonance imaging:
  - Well-defined and homogeneously well-enhanced mass
  - Location: the superficial lobe of the left parotid gland

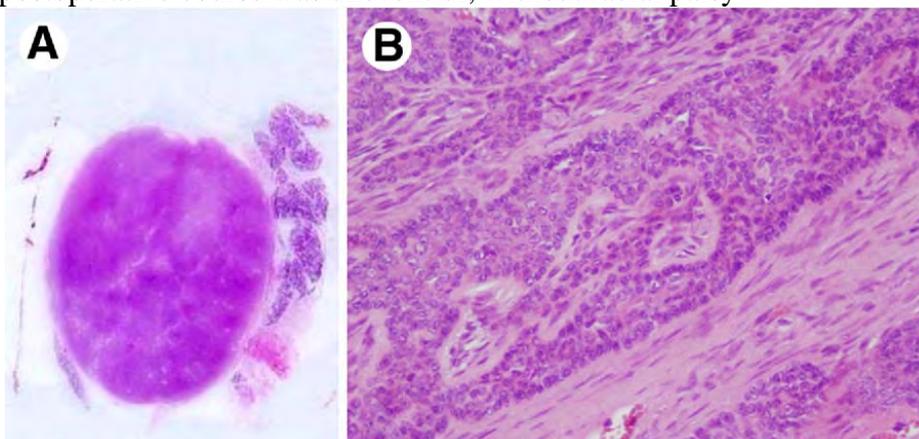


- A, Left parotid mass in the superficial lobe
- B, 3 years after first surgery: mass in the deep lobe of the right parotid gland
- No calcification or cystic component was seen within the tumor
- Suggestive of benign tumor of the parotid gland
- The gender of the patient and clinical manifestations of the lesion suggested a mixed tumor

1 month later

- Left superficial parotidectomy, including removal of the mass, with preservation of the facial nerve and its branches
- Microscopic examination:
  - Varying sized and shaped aggregates of epithelial tumor cells separated by amounts of stromal tissue

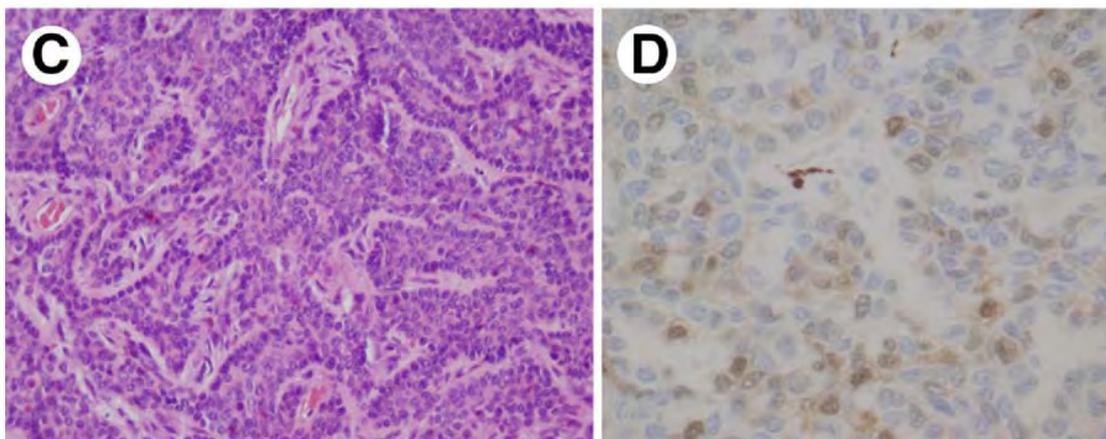
- The aggregates consisted of 2 layers of cells:
  - ◆ Dark cells: less cytoplasm and more basophilic nuclei
  - ◆ Light cells: some of them with 1 or more small basophilic nucleoli
- Some cuboidal ductal cells surrounding small lumens
- Immunoreactivity to S-100 protein was localized to the peripheral tumor cells adjacent to the connective tissue stroma
- The histology was compatible with basal cell adenoma with predominant solid pattern with small areas of trabecular pattern
- The postoperative course was uneventful, without facial palsy



- A, Left intraparotid tumor nodule (hematoxylin-eosin): Uniform histologic appearance dominated by basaloid cells
- B, Histologic examination of the left tumor: Basaloid epithelial cells in large irregular-shaped sheets (hematoxylin-eosin stain X200)

3 years follow-up after surgery

- Complaining of swelling in the right parotid gland
- Physical examination:
  - Elastically hard and poorly defined right parotid mass
  - Fine-needle aspiration cytology: nondiagnostic
  - MRI revealed a right parotid mass in the caudal portion of the deep lobe
  - T2-weighted images: homogeneous moderate intensity
  - With the suspected diagnosis of basal cell adenoma, right conservative parotidectomy was performed with facial nerve preservation
  - Histology: small, slightly separated nodules of basaloid cells in an insular pattern, compatible again with basal cell adenoma with solid pattern
  - Celularity in the immunohistochemical analysis was again focally positive to S-100.
- No complications and no sign of recurrence after 1 year of follow-up



- C, Histologic examination of the right tumor showing characteristics typical of basal cell adenoma: aggregates of epithelial tumor separated by stromal tissue (hematoxylin-eosin stain ×200)
- D, Immunohistochemistry revealed positivity for S-100 protein in stromal cells of the right tumor (×400).

**Discussion**

**Basal cell adenoma**

- Benign epithelial neoplasm with a uniform histologic appearance dominated by basaloid cells and without the myxo-chondroid tissue characteristic of mixed tumor
- More than 80% of BCAs arise in the major salivary glands, the majority occurring in the parotid gland
- 2% to 4% of all primary salivary gland tumors
- Arise almost exclusively in adults
- Average age: 57.7 years
- Female predominance, female:male = 2:1, except in the case of membranous basal cell adenoma (male preponderance)
- Slowly enlarging, asymptomatic, freely movable mass
- Greatest dimension: usually < 3 cm

**The bilateral occurrence of parotid tumors**

- Rare, accounting for 1% to 3% of all parotid tumors
- The most common tumor to occur bilaterally: Warthin’s tumor, 5% to 10% of all Warthin’s tumors

**Table 1. REPORTED CASES OF BILATERAL PAROTID BASAL CELL ADENOMAS IN THE ENGLISH-LANGUAGE LITERATURE**

Reference	Age (yrs)	Gender	Dermal Cylindromas	Occurrence of BCAs
Reingold et al. <sup>3</sup> 1977	43	M	Yes	Metachronous
Herbst and Utz, <sup>4</sup> 1984	54	F	Yes	Metachronous
Zarbo et al. <sup>5</sup> 1985	58	M	Yes	Synchronous
Schmidt et al. <sup>6</sup> 1991	72	F	Yes	Metachronous
Katsuno et al. <sup>7</sup> 2000	65	F	No	Synchronous
Suzuki et al. <sup>8</sup> 2000	65	F	No	Synchronous
Reddy et al. <sup>9</sup> 2008	55	F	No	Synchronous
Our case 2008	65	F	No	Metachronous

Abbreviations: F, female; M, male.

*Junquera et al. Bilateral Parotid Basal Cell Adenoma. J Oral Maxillofac Surg 2010.*

- The occurrence of bilateral BCAs of the parotid glands is unusual
- Notable similarity between dermal eccrine tumors (eccrine spiradenoma and cylindroma) and BCAs, and a diathesis of both tumors has been reported
- The histologic features of BCAs and skin tumors were similar and their synchronous occurrence may result from a single pleotropic gene that acts on

