

Key imaging information in salivary gland lesions

April 21, 2020: Roberto Maroldi, Brescia/IT

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Prof. Maroldi has a particular interest in radiology of head and neck cancer, larynx, salivary, sinonasal and skull base imaging and has performed several thousand CT and MR examinations of the Head and Neck, and hundreds of vascular examinations and interventional procedures.



Learning Objectives

1. To become familiar with the Imaging techniques to be used for inflammatory and neoplastic salivary gland lesions
2. To learn about the Imaging findings of most frequent benign and malignant parotid gland neoplasms
3. To understand the key issues in planning surgery for salivary gland neoplasms
4. To learn about minor salivary gland distribution and most frequent lesions

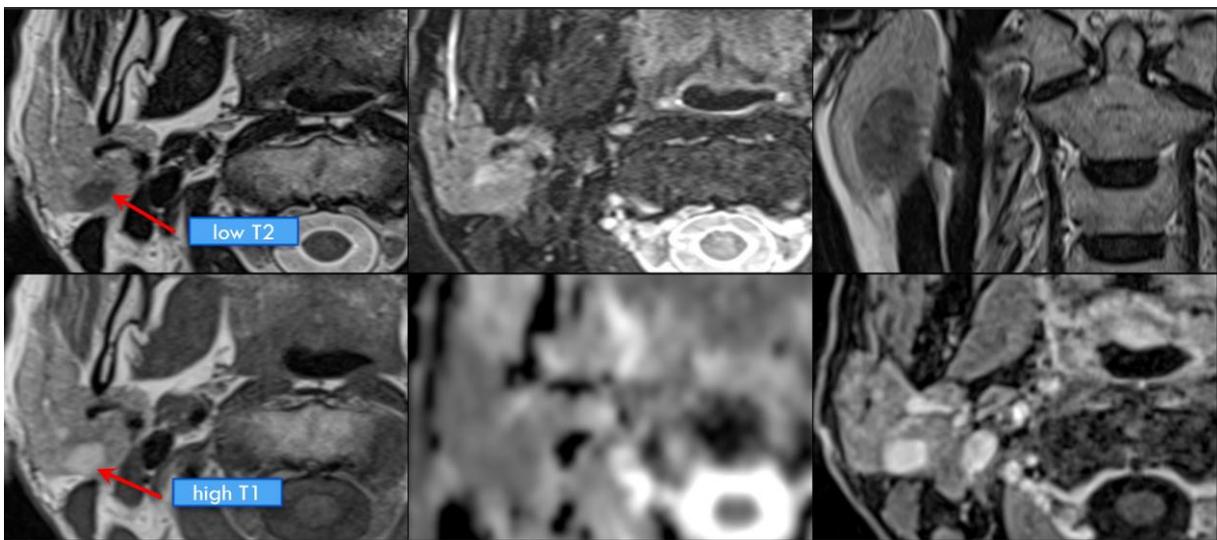
Test Your Knowledge

1. Parotid gland nodule: Which MR feature does not suggest a pleomorphic adenoma?
 - a. Hyper-intensity on T2
 - b. Regular margins
 - c. Inhomogeneous enhancement
 - d. Hyper-intense rim on T2
2. Parotid gland nodule: Which MR feature does suggest malignancy?
 - a. A nodule hyper-intense on T2
 - b. A nodule hyper-intense on T1

- c. A nodule hypo-intense on T2
- d. A nodule hypo-intense on T1
- e. High ADC value (>1.4) on DWI

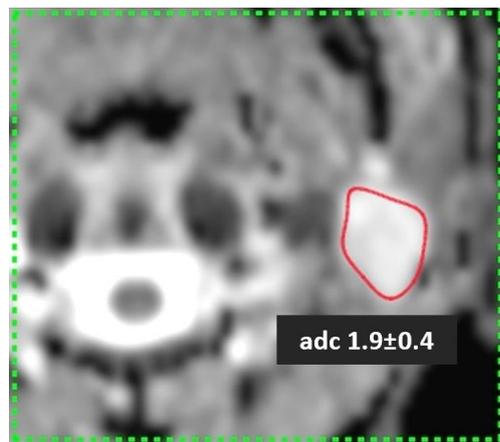
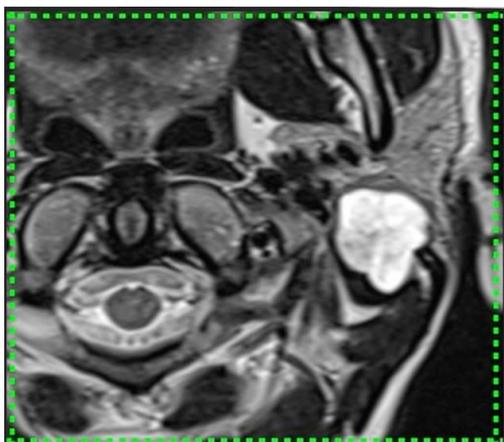
3. Parotid nodule, mostly hyper-intense on T2, high values on ADC. If an intra-nodular component hypo-T2 and with low value ADC (<1.4) is present, what it could indicate?
- a. Necrosis in a pleomorphic adenoma
 - b. Malignant degeneration in a pleomorphic adenoma
 - c. Cystic degeneration in a pleomorphic adenoma
 - d. Hyper-cellular component or malignant degeneration in a pleomorphic adenoma
 - e. Fibrotic component in a pleomorphic adenoma

4. 45yo male, small lump in R parotid gland. Your guess?



- a. A complicated branchial cleft cyst type I
- b. Pleomorphic adenoma
- c. Warthin tumor
- d. Adenoid cystic carcinoma
- e. Intra-parotid nodal metastasis

5. 38yo female, long standing lump in L parotid gland. Your guess?



- a. A complicated branchial cleft cyst type I
- b. Pleomorphic adenoma
- c. Warthin tumor
- d. Adenoid cystic carcinoma
- e. Intra-parotid nodal metastasis