Interesting Case Conference

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Presentation

• 79 yo Female with parotid masses
  – Bilateral, multiple
  – Largest lesion, 2.5 cm left on CT
  – Present for approximately 1 month

• No other significant medical history
  – nonsmoker

• Exam: non-tender, mobile masses

• Per report and OSH FNA was suspicious for Wathin’s tumor
Preliminary Assessment

• 5 Passes
  – 4 smears (2 DQ, 2 pap)
  – 3 dedicated passes for cell block

• Dx: Low-grade salivary gland neoplasm

• At the time of preliminary assessment acinic cell carcinoma was favored
Cell Block: Paucicellular with one cluster.
Oncocytic Salivary Gland Neoplasms

Differential Dx:

- Acinic Cell Carcinoma
- Oncocytoma
- Oncocytic Carcinoma
- Warthin Tumor (not likely due to lack of lymphocytes)
- Oncocytic variant of Mucoepidermoid Carcinoma
- Pleomorphic adenoma with Oncocytic features

Stains or special studies to resolve DDX?
<table>
<thead>
<tr>
<th>Feature</th>
<th>Normal</th>
<th>Oncocytoma</th>
<th>Warthin Tumor</th>
<th>Acinic Cell Ca</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background</td>
<td>Stripped nuclei</td>
<td>Clean</td>
<td>Granular debris, lymphocytes</td>
<td>Stripped nuclei</td>
</tr>
<tr>
<td>Cell borders</td>
<td>Indistinct</td>
<td>Well defined</td>
<td>Well defined</td>
<td>Indistinct</td>
</tr>
<tr>
<td>Cytoplasm</td>
<td>Abundant and vacuolated</td>
<td>Moderate and densely granular</td>
<td>Moderate and densely granular</td>
<td>Abundant and vacuolated</td>
</tr>
<tr>
<td>PTAH</td>
<td>Negative</td>
<td>Positive</td>
<td>Positive</td>
<td>Negative</td>
</tr>
<tr>
<td>PAS+ Diastase resistant</td>
<td>Positive</td>
<td>Negative</td>
<td>Negative</td>
<td>Positive</td>
</tr>
</tbody>
</table>

Final Sign-out

Positive for neoplastic cells.
Oncocytic salivary gland neoplasm.

Comment (summarized)
• DDx includes oncocytoma, oncocytic CA, acinic cell carcinoma, and Warthin tumor. Based on the PAS(-)/PTAH(+) profile, an oncocytic tumor (oncocytoma vs oncocytic CA) is favored. Excision is recommended.
Oncocytoma

- Rare benign salivary gland neoplasm
- 1-3% of salivary gland tumors
- Majority occur in parotid gland of older adults
  - Mean age 6-7 decade
  - No gender predilection
- Most are unifocal, but can be multifocal
- Discrete, well circumscribed nodule
  - In contrast to oncocytosis
- Painless, slowly enlarging mass
- Average size 3-4 cm
- *Carcinomas are clinically expansive, invasive tumors requiring histologic examination for Dx.*