

CLINICAL DIAGNOSIS:

Adenoid cystic carcinoma right ear T1N0M0

PATHOLOGY DIAGNOSIS:

1. External acoustic canal, labeled as right cartilaginous external acoustic canal mass, sleeve resection:
  - Suggestive of Adenoid cystic carcinoma tubular / cribriform (see COMMENT)
  - Size: 3.0 x 2.0 mm in greatest dimension (measured under microscope)
  - Solid component: Not identified
  - Tumor extent: Tumor involving soft tissue (fibrous and muscle)
  - Perineural invasion: Not identified
  - Margin status: All margins are uninvolved by tumor:
    - Anterior margin: Uninvolved by tumor, less than 1.0 mm
    - Posterior margin: Uninvolved by tumor, at least 5.0 mm
    - Superior margin: Uninvolved by tumor, 2.0 mm
    - Inferior margin: Uninvolved by tumor, 5.0 mm
    - Lateral margin: Uninvolved by tumor, 6.0 mm
2. External acoustic canal, labeled anterior external acoustic canal wall, excision:
  - Suggestive of adenoid cystic carcinoma tubular / cribriform (see COMMENT)
  - Size: 3.0 x 2.0 mm in greatest dimension (measured under microscope)
  - Immunohistochemical study shows tumor cells positive for CD117, CK7, p63 and SMA, supporting the diagnosis of adenoid cystic carcinoma.
3. External acoustic canal, labeled posterior external acoustic canal wall, excision:
  - Squamous epithelium with soft tissue (see COMMENT)
  - No tumor is identified.
4. External acoustic canal, labeled as medial margin right ear, biopsy:
  - Salivary gland tissue with adjacent soft tissue (see COMMENT)
  - No tumor is identified.

COMMENT: All specimens show extensive cauterized artifacts and may limit the morphological interpretation of some aspects such as margin status.  
Please correlate with other findings.  
NOTE: Please order via HO and send a pathological request form for CD117, CK7, SMA and p63 on Block B01.

GROSS EXAMINATION:

Four containers are received.

1. Right cartilaginous EAC mass  
Received in formalin is a piece of firm tan tubular tissue measuring 1.5 x 1.3 x 1.0 cm. No discrete mass tissue is identified after cut sections.  
Representative sections are submitted as:  
A01 = anterior margin (perpendicular)  
A02 = posterior margin (perpendicular)  
A03 = tissue with superior, inferior, lateral and medial margin  
Stains index: superior = black, inferior = green, lateral = yellow, medial = blue, anterior = yellow, posterior = yellow

2. anterior EAC wall  
Received in formalin is a piece of soft gray tan tissue measuring 1.0 x 0.8 x 0.5 cm. It is bisected and all are submitted as B01.

3. posterior EAC wall  
Received in formalin are three pieces of soft gray tan tissue measuring 1.5 x 1.5 x 0.5 cm in aggregate. All are submitted as C01.

4. Medial margin right ear  
Received in formalin are two pieces of soft gray tan tissue measuring 1.0 x 1.0 x 0.5 cm in aggregate. All are submitted as D01.

Date:

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ACCREDITED TEST

Histochemistry : HTE, AFB, PAS, GMS, MUCIN, PAM, Reticulin, Masson Trichrome  
Immunohistochemistry : ER, PR, HER-2, MMR Protein, Ki-67, Cytokeratin 7, Cytokeratin 20, P40, TTF-1  
Molecular pathology : Her-2 gene, EBER, KRAS, NRAS, EGFR

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