

Primary epithelial-myoepithelial carcinoma of the pituitary gland

Primary [salivary gland-like tumors](#) of the [sella](#) are rare and often challenging to diagnose. They reportedly derive from [serous](#) and [mucinous](#) glands that remain trapped in the [infundibulum](#) during [embryogenesis](#).

Lavin et al. reported a 68-year-old man who presented with partial left [third cranial nerve palsy](#), visual loss in the left eye without visual field defects, headache, weight loss and reduced muscle bulk. Neuroimaging studies demonstrated a solid and cystic, avidly enhancing lesion expanding the pituitary fossa and extending to the left cavernous sinus. The patient underwent craniotomy and the tissue removed showed features of epithelial-myoepithelial carcinoma similar to the salivary gland, skin and breast counterpart. No primary tumor was found outside the sella. The lesion behaved aggressively despite radio-chemotherapy and the patient died 22 months from the onset. The tumor showed a novel TP53 in-frame deletion (Gly154del) while no variants were found in H-RAS hotspot regions (codons 12, 13 and 61). Our report expands the spectrum of salivary gland-like tumors primarily occurring in the sella and emphasizes the need for specialist review of rare, non-neuroendocrine tumors of the pituitary and sella regions ¹⁾.

¹⁾

Lavin V, Callipo F, Donofrio CA, Ellwood-Thompson R, Metcalf R, Djoukhadar I, Higham CE, Kearney T, Colaco R, Gnanalingham K, Roncaroli F. Primary epithelial-myoepithelial carcinoma of the pituitary gland. *Neuropathology*. 2020 Jan 3. doi: 10.1111/neup.12628. [Epub ahead of print] PubMed PMID: 31900996.

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