

Acinic cell carcinoma

Acinic cell carcinoma (ACC) accounts for only 1% of all [parotid](#) neoplasms. [Spinal metastases](#) of these tumor are extremely rare.

Case reports

Primary salivary acinar cell [carcinoma](#) of the [parotid gland](#) with [parietal lobe metastases](#) ¹⁾.

A 21-year-old [patient](#) had two prior [partial resections](#) of an ACC of the [parotid gland](#) followed by [radiotherapy](#). Two years later, the patient presented with a 3-month history of [cervicothoracic pain](#). The [cervical spine magnetic resonance imaging](#) revealed a pathological [vertebral fracture](#) secondary to metastatic infiltration of the D1 and D2 vertebral bodies contributing to spinal cord compression. The patient underwent a two-staged approach to resect the D1/D2 infiltrated vertebral bodies and to stabilize the cervicothoracic junction. The histopathological diagnosis was consistent with metastatic ACC. The patient subsequently received 10 cycles of adjuvant radiotherapy. Six months later, the patient was neurologically intact and radiographically exhibited adequate fusion without new tumor recurrence. At the telemedicine follow-up 35 months postoperatively, the patient was doing well without axial pain or any neurological symptoms.

A 23-year-old patient following circumferential decompression/fusion of a D1/D2 metastatic parotid carcinoma ACC was neurologically symptom free and radiographically stable without evidence of residual/ recurrent tumor. ²⁾.

3: Yao L, Feng M, Li XT, Gan WJ, Xu XT, Zhou YX. Clinical study of salivary gland malignant tumor with skull base metastases. Br J Neurosurg. 2021 Feb 27;1-7. doi: 10.1080/02688697.2021.1885616. Epub ahead of print. PMID: 33641541.

4: Wei D, Wang L, Yan Y, Jia Z, Gagea M, Li Z, Zuo X, Kong X, Huang S, Xie K. KLF4 Is Essential for Induction of Cellular Identity Change and Acinar-to-Ductal Reprogramming during Early Pancreatic Carcinogenesis. Cancer Cell. 2016 Mar 14;29(3):324-338. doi: 10.1016/j.ccell.2016.02.005. PMID: 26977883; PMCID: PMC4794756.

5: Aydin S, Kuloglu T, Ozercan MR, Albayrak S, Aydin S, Bakal U, Yilmaz M, Kalayci M, Yardim M, Sarac M, Kazez A, Kocdor H, Kanat B, Ozercan İH, Gonen M, Bilgen M, Balgetir F. Irisin immunohistochemistry in gastrointestinal system cancers. Biotech Histochem. 2016;91(4):242-50. doi: 10.3109/10520295.2015.1136988. Epub 2016 Mar 10. PMID: 26963139.

6: Saloman JL, Albers KM, Li D, Hartman DJ, Crawford HC, Muha EA, Rhim AD, Davis BM. Ablation of sensory neurons in a genetic model of pancreatic ductal adenocarcinoma slows initiation and progression of cancer. Proc Natl Acad Sci U S A. 2016 Mar 15;113(11):3078-83. doi: 10.1073/pnas.1512603113. Epub 2016 Feb 29. PMID: 26929329; PMCID: PMC4801275.

7: Farag A, Rosen M, Evans J. Surgical Techniques for Sinonasal Malignancies. Neurosurg Clin N Am.

2015 Jul;26(3):403-12. doi: 10.1016/j.nec.2015.03.011. Epub 2015 May 7. PMID: 26141359.

8: Shin M, Kondo K, Hanakita S, Suzukawa K, Kin T, Shojima M, Nakagawa D, Saito N. Endoscopic transnasal approach for resection of locally aggressive tumors in the orbit. J Neurosurg. 2015 Sep;123(3):748-59. doi: 10.3171/2014.11.JNS141921. Epub 2015 May 22. PMID: 26052982.

9: Lesniak MS, Tihan T, Olivi A. Solitary central nervous system metastases from acinic cell carcinoma of the parotid gland. J Otolaryngol. 2002 Feb;31(1):38-41. doi: 10.2310/7070.2002.19277. PMID: 11881770.

10: Sanno N, Teramoto A, Osamura RY, Genka S, Katakami H, Jin L, Lloyd RV, Kovacs K. A growth hormone-releasing hormone-producing pancreatic islet cell tumor metastasized to the pituitary is associated with pituitary somatotroph hyperplasia and acromegaly. J Clin Endocrinol Metab. 1997 Aug;82(8):2731-7. doi: 10.1210/jcem.82.8.4175. PMID: 9253362.

¹⁾
Sun Y, Di G, Jiang X. Primary salivary acinar cell [carcinoma](#) of the [parotid gland](#) with parietal [metastases](#): A case report. Asian J Surg. 2022 Jan 6:S1015-9584(21)00848-4. doi: 10.1016/j.asjsur.2021.12.066. Epub ahead of print. PMID: 35000858.

²⁾
Rohrmoser RCG, Borrás MD, Laínez GL, Eisen JB, Martínez LL, Barnoya J. Spinal metastases at the cervicothoracic junction from acinic cell carcinoma of the parotid gland: Case report. Surg Neurol Int. 2021 Sep 20;12:474. doi: 10.25259/SNI_719_2021. PMID: 34621589; PMCID: PMC8492436.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=acinic_cell_carcinoma

Last update: **2024/06/07 02:51**

