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Authors: Erdinc Ozek, Deniz Ozcan, Suat Erol Celik, Ahmet Celal Iplikcioglu

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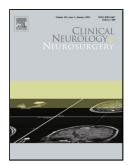
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Matrix Metalloprotease-9 Expresssion in Meningioma: Correlation With Growth Fraction and Role of Gender

A Pilot Immunohistochemical Study

Erdinc Ozek^{1,*} erdincozek@gmail.com, MD, Deniz Ozcan², MD, Suat Erol Celik³, MD, Ahmet Celal Iplikcioglu⁴, MD

¹Neurosurgery Department, Bezmialem Vakif University, Fatih, Istanbul/Turkey

²Pathology Department, Okmeydani Training and Research Hospital, Sisli, Istanbul/Turkey

³Neurosurgery Department, Okmeydani Training and Research Hospital, Sisli, Istanbul/Turkey

⁴Neurosurgery Department, Private Medicana Hospital, Beylikduzu, Istanbul/Turkey

*Corresponding Author: Erdinc Ozek, M.D., Neurosurgery Clinic, Bezmialem University School Of Medicine, Istanbul, Turkey

Highlights

- This study demonstrates the correlation of MMP9 with Ki67 and gender influence.
- MMP9 staining indices were significantly higher in women specimens.
- MMP-inhibitors and hormone receptor-antagonists could be included to chemotherapy.

Abstract

Objective: Matrix metalloproteases (MMPs), particularly MMP2 and MMP9 increase tumor invasion and edema in meningiomas. Although lesser recognized, MMPs may also enhance cell growth via liberating growth factors or via cleaving inactive growth factors into active isoforms. However, there exist very few studies, which investigated correlation of MMPs with growth fraction in meningiomas. Meningiomas are seen more frequently in women and their growth accelarate during pregnancy. However, no study examined whether MMP-expressions in meningioma differ with gender.

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