

# Accepted Manuscript

Collision tumor of glioblastoma and meningioma: case report and literature review.

Zhen Zhang, Yihang Yang, Keke Zhang, Jianfeng Zhuang, Fangchen Shao, Huajie Liu, Yi Xing, Shangchen Xu



PII: S1878-8750(18)31200-2

DOI: [10.1016/j.wneu.2018.05.246](https://doi.org/10.1016/j.wneu.2018.05.246)

Reference: WNEU 8308

To appear in: *World Neurosurgery*

Received Date: 26 February 2018

Revised Date: 30 May 2018

Accepted Date: 31 May 2018

Please cite this article as: Zhang Z, Yang Y, Zhang K, Zhuang J, Shao F, Liu H, Xing Y, Xu S, Collision tumor of glioblastoma and meningioma: case report and literature review., *World Neurosurgery* (2018), doi: 10.1016/j.wneu.2018.05.246.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Collision tumor of glioblastoma and meningioma: case report and literature review.**

Zhen Zhang<sup>#,a</sup>, Yihang Yang<sup>#,a</sup>, Keke Zhang<sup>b</sup>, Jianfeng Zhuang<sup>a</sup>, Fangchen Shao<sup>a</sup>, Huajie Liu<sup>a</sup>,  
Yi Xing<sup>\*,a</sup>, Shangchen Xu<sup>\*,a</sup>

a Department of Neurosurgery, Shandong Provincial Hospital affiliated to Shandong University,  
Shandong, China, 250021

b Department of Otolaryngology, Shandong Provincial Hospital affiliated to Shandong  
University, Shandong, China, 250021

Shangchen Xu and Yi Xing are corresponding authors.

Zhen Zhang and Yihang Yang contributed equally to this paper.

**Abstract**

**Background:** Intracranial primary collision tumors of different histologic types are rare. Until now, it is still unclear about the occurrence of collision tumors.

**Case Description:** We described a 66-year-old female who presented with headache, nausea and vomiting. Magnetic resonance imaging(MRI) scan showed that there were two primary intracranial tumors occurring simultaneously at adjacent sites of the right cerebral hemisphere. The pathology of tumors showed two distinct tumors: meningioma (WHO I) and glioblastoma(GBM). This is a rare case where two different intracranial primary tumors occur at adjacent sites but the patient had no history of head trauma, neurological surgery or radiation therapy.

**Conclusions:** According to the previous and our present reports, the most common type of

Download English Version:

<https://daneshyari.com/en/article/8691314>

Download Persian Version:

<https://daneshyari.com/article/8691314>

[Daneshyari.com](https://daneshyari.com)