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Treatment response and prognosis after recurrence of atypical meningiomas

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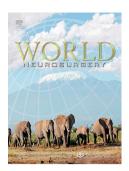
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## **ACCEPTED MANUSCRIPT**

- 1. Scant literature is available regarding the treatment and prognosis of atypical meningiomas after recurrence. The objective of this study was to analyze the treatment outcomes and prognostic factors of atypical meningiomas after disease recurrence.
- 2. The precursors of recurrent tumors were transformed meningiomas, an interval time less than 24 months and a post-recurrence histological diagnosis of anaplastic meningioma might predict an unfavorable outcome in our study.
- 3. Surgery Simpson I and II can improve the PFS and OS of tumors. Regarding recurrent atypical meningiomas, we concluded that total resection of the tumors under relatively safe conditions remains the most suitable treatment strategy.

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