# **INPLASY**

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# Efficacy and Safety of Temozolomide for the Treatment of Advanced or Recurrent Ependymoma: A Meta-Analysis

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### **ADMINISTRATIVE INFORMATION**

Support - None.

Review Stage at time of this submission - Completed but not published.

**Conflicts of interest** - The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

**INPLASY registration number: INPLASY202590049** 

**Amendments -** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 13 September 2025 and was last updated on 13 September 2025.

### **INTRODUCTION**

Review question / Objective Efficacy and Safety of Temozolomide for the Treatment of Advanced or Recurrent Ependymoma.

**Condition being studied** Ependymoma is a primary central nervous system (CNS) tumor originating from the ventricular system or the central canal of the spinal cord.

### **METHODS**

**Participant or population** Patients were diagnosed with temozolomide.

**Intervention** Patients were treated with ependymoma.

Comparator CR, PR, SD, PD, progression-free survival (PFS), overall survival (OS), and adverse events (AEs).

Study designs to be included RCT.

Eligibility criteria None.

Information sources PubMed and Embase.

Main outcome(s) PFS OS.

**Quality assessment / Risk of bias analysis** Sensitivity analyses, Newcastle-Ottawa Scale (NOS).

Strategy of data synthesis Stata.

**Subgroup analysis** Subgroup analysis revealed that the pooled CR in patients who received

temozolomide as first-line chemotherapy was 0.119 (95% CI: 0.049-0.211). Otherwise, the CR of patients in temozolomide monotherapy was 0.0 (95% CI: 0.0-0.02).

**Sensitivity analysis** As indicated by the results of the analysis, all of the pooled results with 95% CIs were not remarkably influenced by any individual study.

**Country(ies) involved** China - Department of Neuro-Oncology, Cancer Center, Beijing Tiantan Hospital, Capital Medical University, Beijing, China.

**Keywords** Ependymoma, Temozolomide, Metaanalysis, Efficacy, Safety.

### **Contributions of each author**

Author 1 - Rong Zhang.

Author 2 - Binyan Liu.

Author 3 - Wenbin Li.