

# A Review of the Current State of Care :The Impact on Brain Tumors on Patients and Families

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**Abstract:** Brain tumors are a complex and heterogeneous group of neoplasms that pose significant challenges in diagnosis and treatment. This systematic review aims to provide a comprehensive overview of the current state of knowledge on brain tumors, including their types, symptoms, treatment options, causes, and diagnostic approaches. A thorough literature search was conducted across multiple databases, and relevant studies were selected based on predefined inclusion and exclusion criteria. The review highlights the various types of brain tumors, including gliomas, meningiomas, and medulloblastomas, and discusses their distinct characteristics and clinical presentations. The symptoms of brain tumors, such as headaches, seizures, and cognitive impairment, are also discussed. The review provides an in-depth analysis of current treatment options, including surgery, radiation therapy, and chemotherapy, as well as emerging therapies and ongoing clinical trials. Additionally, the review explores the potential causes of brain tumors, including genetic mutations and environmental factors, and discusses the diagnostic approaches used to detect and monitor brain tumors, including imaging modalities and biomarkers. This systematic review aims to provide a comprehensive and up-to-date summary of the current state of knowledge on brain tumors, which will be valuable for clinicians, researchers, and patients.

**Keywords:** Brain tumor, glioma, meningioma, medulloblastoma, symptoms, treatment, causes, diagnosis, systematic review

