Glioblastoma (GBM), also referred to as a grade IV astrocytoma, is a fast-growing and aggressive brain tumor.Symptoms Symptoms vary depending on the location of the brain tumor, but may include any of the following: Persistent headaches Double or blurred vision Vomiting Loss of appetite Changes in mood and personality Changes in ability to think and learn New onset of seizures Speech difficulty of gradual onset(1)GBMs present unique treatment challenges due to: Localization of tumors in the brain Inherent resistance to conventional therapy Limited capacity of the brain to repair itself Migration of malignant cells into adjacent brain tissue The variably disrupted tumor blood supply, which inhibits effective drug delivery Tumor capillary leakage, resulting in an accumulation of fluid around the tumor, (peritumoral edema) and intracranial hypertension Tumor-induced seizures The resultant neurotoxicity of treatments directed at gliomas Prevalence and Incidence Glioblastoma is the most common malignant brain and other CNS tumors accounting for 47.7% of all cases.

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