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Review [Curr Med Sci.](#) 2024 Dec;44(6):1175-1184. doi: 10.1007/s11596-024-2950-7.

Epub 2024 Dec 19.

# Current Combinatorial Therapeutic Aspects: The Future Prospect for Glioblastoma Treatment

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PMID: 39695017 DOI: [10.1007/s11596-024-2950-7](https://doi.org/10.1007/s11596-024-2950-7)

## Abstract

There are several types of brain tumors but glioblastoma (GBM) is one of the highly malignant tumors. A primary concern with GBM is that the treatment is inadequate. Even after giving many multi-stacked combinations of therapies to patients, inclusive of chemotherapy, radiation, and surgery, the median survival rate remains poor. Due to its heterogeneous nature, the use of selective therapy for specific targeting of tumor cells is of particular importance. Although many treatment alternatives which include surgery with adjuvant chemotherapy and radiotherapy are available, the prognosis of the disease is very poor. Combination therapy is becoming the foundation of modern antitumor therapy and it is continuously evolving and developing innovative drug regimens as evidenced by ongoing preclinical and clinical trials. In this review, we discuss the current treatment options and emerging therapeutic approaches for the treatment of GBM. The prospects for alternative glioblastoma therapy are also discussed.

**Keywords:** combination therapy; drug resistance; glioma; temozolomide; treatment failure.

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