

## ABSTRACT

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A guide through conventional and modern cancer treatment modalities: A specific focus on glioblastoma cancer therapy (Review).

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Cancer still ranks as one of the top causes of morbidity and mortality despite recent improvements in standard chemotherapy, radiotherapy, and surgery. This underlines some of the difficulties in creating successful therapeutic strategies, but it also highlights the shortcomings of conventional methods. In order to enhance the standard treatment of cancer patients, biology-driven therapies are emerging towards more specific and effective clinical options. In the present review, both conventional and novel methods for cancer treatment were addressed, with a particular focus on Glioblastoma multiforme (GBM) therapies. GBM is one of the most challenging cancers for conventional treatments, and survival rates of patients remain very low. In the present review, focus was addressed on employed chemo- and radiotherapies along with developing novel targeted and immunotherapies assessed in clinical trials on patients with GBM or yet to be evaluated clinically. It was aimed to evaluate efficiency of treatments in suppressing GBMs, roadblocks and challenges. A brief discussion of a few promising delivery methods for targeted drug and gene therapy for cancer was also provided. Increment advancements in this field emphasizes the significance of combining different treatment strategies for improved survival and quality of patients' lives.

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