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Role of Resection in Glioblastoma Management

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Abstract

Whenever possible, maximal safe resection is the first intervention for management of glioblastoma. Resection offers tissue for diagnosis, decompression of the brain, cytoreduction, and has been associated with prolonged survival in numerous retrospective studies. In this review, we provide a critical overview of the literature associating glioblastoma resection with survival. We discuss techniques that enhance extent of resection, and the role of clinical and surgeon-variables. At last, we analyze the covariates and confounders that might influence the relationship between extent of resection and survival for glioblastoma, as these might ultimately also influence outcomes and other therapeutic interventions tested in trials.

Keywords: Cytoreduction; Glioblastoma resection; Operative adjuncts; Resectability; Supratotal resection; Survival.

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