

**Title : Gliosarcomas: Are They Still Dreadful?**

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**Asbtract :**

Introduction: Gliosarcomas are highly malignant tumours of the central nervous system, having the worst prognosis. Gliosarcomas have the same epidemiology and natural history like Glioblastoma whereas the incidence is more among Males compared to females. Gliomas can lead to sarcomatous transformation in the supporting mesenchymal element, affecting the temporal lobe commonly. Gliosarcoma is diagnosed based on gliomatous and malignant mesenchymal differentiation seen on biphasic tissue pattern. Materials and Methods: 16 patients aged between 32 – 70 years were analyzed. 10 cases were Primary gliosarcoma and 6 cases were secondary gliosarcoma. All patients underwent tumor excision and received adjuvant concurrent chemo radiation therapy followed by adjuvant chemotherapy alone. Results: In our case series, median survival was 15.6 months. Subset analysis showed better median survival in primary gliosarcoma patients. Conclusion: Maximal safe resection followed by concurrent chemoradiation and adjuvant chemotherapy should be the standard management in primary/secondary gliosarcoma patients.