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Gliosarcoma with osteosarcomatous features: a short illustrated review.

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INTRODUCTION: Gliosarcoma is a rare, malignant, biphasic brain tumor formed by both glioblastoma and sarcomatous components. Various lines of differentiation are described in the latter component, but most commonly fibrosarcomatous and pleomorphic sarcoma are present. Osteosarcomatous features are exceedingly rare. OBJECTIVE: We report a case of gliosarcoma with osteosarcomatous features in a 33-year-old woman. METHODS: Histologically, the sarcomatous portion displayed a typical pattern of fibrosarcoma associated with areas of osteoid formation. RESULTS AND CONCLUSION: Immunohistochemical glial fibrillary acid protein (GFAP) expression was seen only in the glioblastoma portion. Clinicopathological characteristics and radiological data of this rare condition were reviewed. Possible differential diagnoses and potential histogenesis were also discussed.

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