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REFERENCES AND DIAGNOSES**

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Case 2004-4

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Diagnosis: Gliosarcoma with PNET component vs. malignant mixed glioneuronal tumor

Comment: Portions of the tumor were mesenchymal, while other portions were positive for GFAP. Both portions of the tumor were positive for p53, and the Ki-67 labeling index was high in both regions. The small cell component had positivity for synaptophysin and NeuN. Electron microscopy revealed either neurosecretory granules or lysosomes. Cytogenetic study of the tumor demonstrated relative loss of Chromosome 10. The patient is stable 14 months following the diagnosis.

References:

Acton B, Cobbers JM, Buschges R, et al: Comprehensive analysis of genomic alterations in gliosarcoma and its two tissue components. *Genes Chromosomes Cancer* 2002; 34:416-427.

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Wharton SB, Whittle IR, Collie DA, Bell HS, Ironside JW: Gliosarcoma with areas of primitive neuroepithelial differentiation and extracranial metastasis. *Clin Neuropathol* 2001; 20:212-218.