

45th ANNUAL DIAGNOSTIC SLIDE SESSION, 2003
REFERENCES AND DIAGNOSES

MODERATOR: E. Tessa Hedley-Whyte, M.D.

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Case 2004-3

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Diagnosis: Anaplastic glioneuronal tumor with neuropil-like and “rosetted” islands, W.H.O. Grade III/IV

Comment: The neuropil-like islands were positive for synaptophysin, on immunocytochemistry, and they were negative for glial fibrillary acidic protein (GFAP), while the astrocytic portions were GFAP positive. The MIB-1 labeling index was 5%, and the tumor cells were positive for p53. The patient was treated with radiotherapy and chemotherapy, and in April 2004 he was asymptomatic. He underwent a second neurosurgical resection at that time, and the tumor was now more astrocytic. The patient later died of pulmonary embolus.

References:

Cenacchi G, Giangaspero F: Emerging tumor entities and variants of CNS neoplasms.

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Teo JG, Gultekin SH, Bilsky M, Gutin P, Rosenblum MK: A distinctive glioneuronal tumor of the adult cerebrum with neuropil-like (including “rosetted”) islands: report of 4 cases. Am J Surg Pathol 1999; 23:502-510.