45th ANNUAL DIAGNOSTIC SLIDE SESSION, 2003 REFERENCES AND DIAGNOSES

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

EDITOR: Leroy R. Sharer, M.D.

Case 2004-1

Submitted by: Boleslaw Lach, M.D., Ph.D., King Faisal Specialist Hospital and Research Center, Riyadh, SAUDI ARABIA

Diagnosis: Mixed granular cell and clear cell meningioma

Comment: Immunocytochemistry was positive in this tumor for epithelial membrane antigen (EMA) and progesterone receptor (PR). The tumor was negative for S-100 protein, and the Ki-67 labeling index was low. Other regions of the tumor exhibited a pattern of angiomatoid meningioma, with zones of transition between these areas and the granular and clear cell regions. Electron microscopy revealed desmosomes between the tumor cells and interdigitations of tumor cells.

References:

Markesbery WR, Duffy PE, Cowen D: Granular cell tumors of the central nervous system. J Neuropathol Exp Neurol 1973; 32:92-109.

Pimentel J, Fernandes A, Pinto AE, Fonseca I, Moura Nunes JF, Lobo Antunes J: Clear cell meningioma variant and clinical aggressiveness. Clin Neuropathol 1998; 17:141-146.

Rickert CH, Kuchelmeister K, Gullota F: Morphological and immunohistochemical characterization of granular cells in non-hypophyseal tumours of the central nervous system. Histopathology 1997; 30:464-471.

Teo JG, Goh KY, Rosenblum MK, Muszynski CA, Epstein FJ: Intraparenchymal clear cell meningioma of the brainstem in a 2-year-old child. Case report and literature review. Ped Neurosurg 1998; 28:27-30.