

**46th ANNUAL DIAGNOSTIC SLIDE SESSION, 2005
REFERENCES AND DIAGNOSES**

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

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Case 2005-5

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Diagnosis: “Immature” ganglioneuroma

Comment: Members of the audience suggested several diagnoses, including ganglioma, ganglioglioma with neurofilaments, and ganglioma with neuropil. Reference was also made to Cushing and Wolbach’s paraspinal neuroblastoma. The neuropil islands in this tumor were positive for neurofilament proteins on ICC, and they were negative for S-100 protein. Electron microscopy revealed ganglion cells and also cells that had the appearance of Schwann cells, with collagen. In addition, there were stacks of axons without Schwann cells. “Immature” ganglioneuromas have a favorable prognosis, and they are generally non-aggressive.

References:

Scheithauer B, Woodruff JM, Erlandson RA: Tumors of the Peripheral Nervous System. Washington, D.C.: Armed Forces Institute of Pathology, 1999.

Shimada H, Ambros IM, Dehner LP, et al: The International Neuroblastoma Pathology Classification (the Shimada system). Cancer 1999; 86:364-372.