

**Canadian Association of Neuropathologists
L'Association Canadienne des Neuropathologistes**

CASE No 6

B. Ellezam and A. Adesina

Department of Pathology, Texas Children's Hospital, Houston, Texas.

The patient is a 3-year-old developmentally delayed female who presented to her family physician following 3 weeks of progressive imbalance, nausea and vomiting. She also had a 5-month history of head tilting with walking. At 3 years of age she speaks only a few words and is not toilet trained. General and neurological examinations revealed an ataxic gait with no other significant findings.

MR imaging revealed a partially hemorrhagic, partially enhancing 6 cm fourth ventricular mass with diffusion restriction as well as enlargement of third and lateral ventricles. A cytological and radiological workup for drop metastases was negative.

The patient underwent posterior fossa craniotomy with gross total resection of an infiltrative hemorrhagic tumor.

Materials submitted: One representative H&E

Questions: Differential diagnosis? Special studies to order?