CANADIAN ASSOCIATION OF NEUROPATHOLOGISTS

L'ASSOCIATION CANADIENNE DES NEUROPATHOLOGISTES

50th ANNUAL MEETING
OCTOBER 13th – 16th, 2010

Case Diagnoses and References

1. Complex dysembryoplastic neuroepithelial tumour (DNT)

A.S. Wagner and H.V. Vinters
Section of Neuropathology, Departments of Pathology and Laboratory Medicine & Neurology, David Geffen School of Medicine at UCLA

1. Campos AR, Clusmann H, von Lehe M, et al. Simple and complex dysembryoplastic neuroepithelial tumors (DNT)variants: clinical profile, MRI, and histopathology. Neuroradiology. 2009 51(7):433-43
2. Hanavar M, Janota I, Polkey CE. Histological heterogeneity of dysembryoplastic neuroepithelial tumour: identification and differential diagnosis in a series of 74 cases. Histopathology 1999;34:342-56
3. Maher CO, White JB, Scheithauer BW, Raffel C. Recurrence of dysembryoplastic neuroepithelial tumor following resection. Pediatr Neurosurg. 2008;44(4):333-6.

2. Metastatic non-small cell lung carcinoma into a meningioma

C.I. Coiré
Department of Pathology, Trillium Health Centre, Mississauga, ON, Canada

1. Bhargava P, McGrail KM, Manz HJ, Badias S. Lung Carcinoma Presenting as Metastasis to Intracranial Meningioma. Am J Clin Oncol (CCT) 1999; 22(2); 199-202
2. Takei H, Powell SZ. Tumor-to-Tumor Metastasis to the Central Nervous System. Neuropathology 2009; 29; 303-308.

3. Malakoplakia

Z. Al-Hajri and S. Krawitz
Department of Pathology, University of Manitoba

1. Abdou NI, NaPombejara C, Sagawa A, Ragland C, Stechschulte DJ. Malakoplakia: Evidence for Monocyte Lysosomal Abnormality Correctable by Cholinergic Agonist in Vitro and in Vivo. N Engl J Med 1977; 297:1413-1419.
2. Curran FT. Malakoplakia of the bladder. Br J Urol. 1987; 59:559-63.
3. Stanton MJ, Maxted W. Malacoplakia: a study of the literature and current concepts of pathogenesis, diagnosis and treatment. J Urol. 1981; 125:139-46.

4. Late-onset Friedreich's ataxia

A.H. Koeppen and J.A. Morral
VA Medical Center, Albany, N.Y. 12208 USA

1. Bhidayasiri R, Perlman SL, Pulst S-M, Geschwind DH. Late-onset Friedreich ataxia. Arch Neurol 2005; 62: 1865-9
2. Dürr A, Cossée M, Agid Y, Campuzano V, Mignard C, Penet C, et al. Clinical and genetic abnormalities in patients with Friedreich's ataxia. New Engl J Med 1996;

335: 1169-75

5. Cribriform neuroepithelial tumour (CRINET)

N. Basahel, C. Hawkins and W. Halliday
DPLM, The Hospital for Sick Children and LMP, The University of Toronto.

1. Hasselblatt M, Oyen F, Gesk S, Kordes U, Wrede B, Bergmann M, Schmid H, Fruhwald MC, Schneppenheim R, Seibert R and Paulus W. Cribriform Neuroepithelial Tumor (CRINET): A Nonrabdoid Ventricuclar Tumor with INI1 loss and Relatively Favorable Prognosis. *J Neuropathol Exp Neurol* 68(12):1249-1255, 2009

6. Poorly differentiated high-grade neuroepithelial tumor, most consistent with atypical teratoid rhabdoid tumor (small cell / PNET-like variant)

A. Ellezam and A. Adesina
Department of Pathology, Texas Children's Hospital, Houston, Texas.

1. Behdad A, Perry A. Central nervous system primitive neuroectodermal tumors: a clinicopathologic and genetic study of 33 cases. Brain Pathol. 2010 Mar;20(2):441-50.
2. Haberler C, Laggner U, Slavc I, Czech T, Ambros IM, Ambros PF, Budka H, Hainfellner JA. Immunohistochemical analysis of INI1 protein in malignant pediatric CNS tumors: Lack of INI1 in atypical teratoid/rhabdoid tumors and in a fraction of primitive neuroectodermal tumors without rhabdoid phenotype. Am J Surg Pathol. 2006 Nov;30(11):1462-8.
3. Judkins AR, Mauger J, Ht A, Rorke LB, Biegel JA. Immunohistochemical analysis of hSNF5/INI1 in pediatric CNS neoplasms. Am J Surg Pathol. 2004 May;28(5):644-50.

7. Medullomyoblastoma

A. *Sinha[1], H. Ginsberg[2] and D.G.Munoz[1]*
[1]Division of Pathology, Department of Laboratory Medicine, St. Michael Hospital, University of Toronto, Toronto, Ontario; [2]Department of Neurosurgery, St. Michael Hospital, University of Toronto, Toronto, Ontario.

1. Helton KJ, Fouladi M, Boop FA, Perry A, Dalton J, Kun L, et al. Medullomyoblastoma: A radiographic and clinicopathologic analysis of six cases and review of the literature. Cancer 2004;101:1445-54.
2. Marinesco G, Goldstein M: Sur une forme anatomique, non encore decrite, de medulloblastome, medullo-myoblastome. Ann Anat Pathol 1933; 10: 513–515
3. Rao C, Friedlander ME, Klein E, Anzil AP, Sher JH. Medullomyoblastoma in an adult. Cancer 1990;65:157-63.

8. 'Immature' pleomorphic xanthoastrocytoma (PXA) evolving into a classic WHO grade 2 pleomorphic xanthoastrocytoma

C. Dunham, R. Rassekh and A. Singhal
Divisions of Anatomic Pathology (1), Hematology, Oncology and Bone Marrow Transplantation (2) and Neurosurgery (3), Children's and Women's Health Centre of British Columbia

1. Ceppa EP, Bouffet E, Griebel R, Robinson C, Tihan T (2007). The pilomyxoid astrocytoma and its relationship to pilocytic astrocytoma: report of a case and a critical review of the entity. J Neurooncol. 81(2): 191-6.

9. Microangiopathy and white matter lesions

J. Ferreira

Department of Pathology, Hôpital Maisonneuve-Rosemont, University of Montreal

1. Zu-Rhein GM, Lo S-C, Hulette CM and Powers JM. A novel cerebral microangiopathy with endothelial cell atypia and multifocal white matter lesions: A direct mycoplasmal infection? JNEN 66(12): 1100-1117, 2007.

10. Myofibrillar myopathy with filamen C mutation

J.M. Bilbao, K. Kong, B. Young, S. Cohen and L. Goldfarb
Anatomical Pathology, Sunnybrook Hospital, University of Toronto; and National Institute of Health, Bethesda

1. Kley RA, Hellenbroich Y, van der Ven PFM et al. Clinical and morphological phenotype of the filamin myopathy: a study of 31 german patients. Brain (2007), 130: 3250-3264.
2. Shatunov A, Olive M, Odgerel Z et al. In-frame deletion in the seventh immunoglobulin-like repeat of filamin C in a family with myofibrillar myopathy. Europ J Human Genetics (2009), 17:656-663
3. Vorgerd M, Ban Derven P, Bruchertseifer V et al. A mutation in the dimerization of filamin C causes a novel type of autosomal dominant myofibrillar myopathy. Am J Hum Genet (2005), 77:297-304.
4. Luan X, Hong D, Zhag W and Yuan Y. A novel heterozygous deletion-mutation (2695-2712 del/GTTTGT ins) in exon 18 of the filamin C gene causes filaminopathy in a large Chinese family. Neuromusc Disorders (2010) 20: 390-96

11. a. Centronuclear myopathy (Dx age 12 yrs)
b. Myopathy with central nuclei and associated sarcoplasmic changes (autopsy diagnosis)

S. Krawitz [1] and T. Balachandra [1,2]
[1] Department of Pathology, University of Manitoba; [2] Office of the Chief Medical Examiner, Manitoba Department of Justice

1. Romero, NM. Centronuclear myopathies: A widening concept. Neuromuscular Disorders 2010; 20: 223-228.

2. Selcen D, Ohno K, Engel AE. Myofibrillar myopathy: clinical, morphological and genetic studies in 63 patients. Brain 2004; 127: 439-51.