

小脑血管母细胞瘤2例临床病理分析

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Title: A clinicopathological analysis of 2 cases of cerebellum hemangioblastoma

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摘要: 目的: 探讨小脑血管母细胞瘤 (HB)临床影像学表现、病理学特征及免疫组化特点, 为鉴别诊断的准确率提供依据。方法: 回顾性分析2015年10月至2017年4月诊治的2例HB患者临床资料、影像学表现、病理学特征及免疫组化特点并复习相关文献。结果: 2例HB患者均以头痛为首发症状, 影像学检查提示小脑半球囊实性和实质性占位, 镜下肿瘤主要以大间质细胞和丰富的毛细血管网构成, 并根据间质细胞的丰富程度分为细胞亚型, 其肿瘤组织内含大量的间质细胞, 细胞呈圆形或多角形, 胞浆丰满呈空泡状; 网状亚型, 肿瘤组织内含大量的毛细血管, 网织染色示有丰富的网状纤维。HB间质细胞中Vimentin、S-100蛋白、Inhibin-a、CD56表达均阳性且NSE、VEGF高表达, EMA、CD34、CD31、GFAP、EGFR均呈阴性。血管内皮细胞均表达内皮细胞标记物CD34、CD31及FⅢAg。Ki-67增殖指数标记阳性率 < 5%。结论: HB是临床较为少见的中枢神经系统良性肿瘤 (WHO I级), 影像学表现具有一定的特异性, 结合病理学特征及免疫组化特点, 有助于提高诊断的准确率。

Abstract: Objective: To investigate the clinical imaging findings, pathology feature and immuno histochemistry characteristics of cerebellum hemangioblastoma (HB) and to provide evidence for the accuracy of differential diagnosis. Methods: Retrospectively analyse the clinical data of 2 patients with HB from October 2015 to April 2017 in imaging findings, histopathological features and immunohistochemistry, pathology feature and relevant literature was reviewed. Results: Headache was the first symptom in all patients with HB, and imaging examinations revealed solid cystic and substantial tumor occupancy in the cerebellar hemisphere, microscopically tumors consisted of large interstitial cells and a rich network of capillary vessels, and they were classified into cell subtypes according to the abundance of interstitial cells. The cells were round or polygonal, and the cytoplasm was full showed vacuole-shape. For reticulon subtype, tumor tissue contained a large number of capillaries, reticular fiber staining showed rich reticular fibers. The HB interstitial cells were positive for Vimentin, S-100 protein, Inhibin-a and CD56, and were highly expressed NSE and VEGF. EMA, CD34, CD31, EGFR and GFAP were negative. Vascular endothelial cell expressed endothelial markers CD34, CD31 and FⅢAg. The positive rate of Ki-67 proliferation index was < 5%. Conclusion: HB is a clinically rare benign tumor of the central nervous system (WHO level I). Imaging performance has a certain degree of specificity. Combined with pathological features and immunohistochemical features, it contributes to the accuracy of diagnosis.

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备注/Memo: -

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