

- 113:625-631.
- [35] Zhang JG, Ma Y, Hu WH. Present study on deep brain stimulation in the treatment of Parkinson disease and dyskinetic diseases. Zhongguo Xian Dai Shen Jing Ji Bing Za Zhi, 2007, 7: 22-24.[张建国, 马羽, 胡文瀚. 帕金森病及运动障碍性疾病的脑深部电刺激术治疗研究现状. 中国现代神经疾病杂志, 2007, 7:22-24.]
- [36] Kenney C, Simpson R, Hunter C, Ondo W, Almaguer M, Davidson A, Jankovic J. Short-term and long-term safety of deep brain stimulation in the treatment of movement disorders. J Neurosurg, 2007, 106:621-625.
- [37] Wu X, Chen JC, Wang WL, Hao B, Chen X, Hu XW. Long-term follow-up study on the safety of deep brain stimulation for treating Parkinson's disease. Zhongguo Xian Dai Shen Jing Ji Bing Za Zhi, 2015, 15:790-794.[吴曦, 陈剑春, 王万璐, 郝斌, 陈鑫, 胡小吾. 帕金森病脑深部电刺激术安全性长期随访研究. 中国现代神经疾病杂志, 2015, 15:790-794.]

(收稿日期:2016-12-28)

· 临床医学图像 ·

弥漫性软脑膜胶质神经元肿瘤

doi:10.3969/j.issn.1672-6731.2017.02.014

Diffuse leptomeningeal glioneuronal tumor

YAN Xiao-ling

Department of Pathology, Tianjin Huanhu Hospital, Tianjin 300350, China (Email: ll934065@126.com)

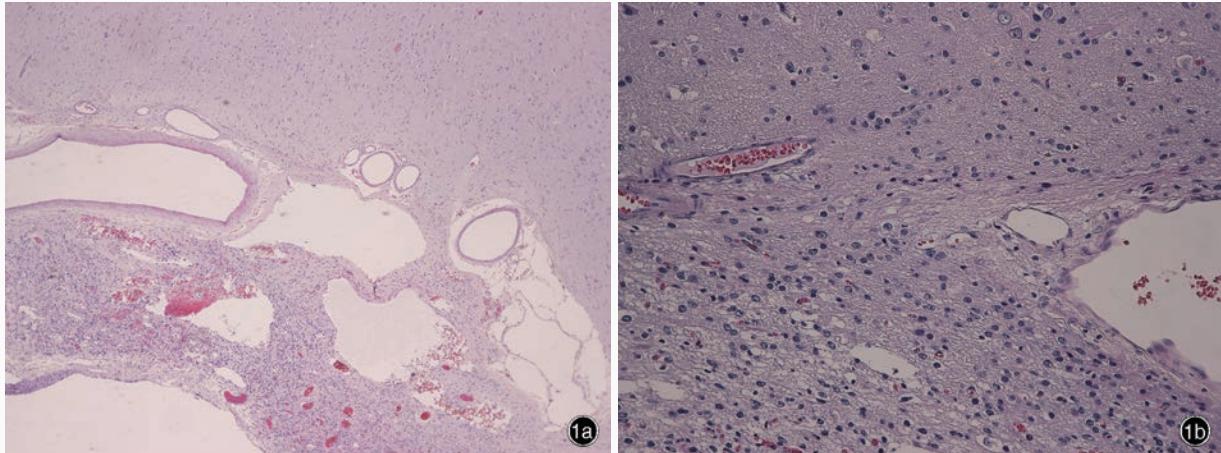


图1 光学显微镜观察所见 HE染色 1a 肿瘤细胞沿软脑膜呈弥漫性生长 ×40 1b 可见形态和大小较一致的少突胶质细胞样肿瘤细胞 ×200

Figure 1 Optical microscopy findings HE staining Tumor cells grew diffusely along the leptomeninges (Panel 1a). × 40 Oligodendroglial-like tumor cells with consistent form and size were seen (Panel 1b). × 200

2016年世界卫生组织(WHO)中枢神经系统肿瘤分类定义一种罕见的胶质神经元肿瘤,以弥漫性软脑膜病变为特征,肿瘤细胞形态类似少突胶质细胞,部分病例可见神经元分化;存在BRAF基因融合及染色体1p缺失或1p/19q-共缺失,不存在异柠檬酸脱氢酶(IDH)基因突变。弥漫性软脑膜胶质神经元肿瘤好发于儿童和青少年,组织学形态观察,肿瘤组织由低至中等密度、相对单一、少突胶质细胞样肿瘤细胞组成,胞核大小一致、中等圆形、核仁不明显,呈弥漫性或软脑膜上小巢状生长(图1)。免疫组织化学染色,肿瘤细胞胞核表达少突胶质细胞转录因子2(Olig-2);胞质表达微管相关蛋白-2(MAP-2)、S-100蛋白(S-100)和突触素(Syn),约50%病例表达胶质纤维酸性蛋白(GFAP)且常局限于小部分肿瘤细胞;不表达上皮膜抗原(EMA)、神经元核抗原(NeuN)和R132H-突变IDH1。

(天津市环湖医院病理科阎晓玲供稿)