

- dynamic contrast-enhanced MRI. Magn Reson Med, 2016, 75: 1967-1977.
- [27] Cramer SP, Larsson HB. Accurate determination of blood-brain barrier permeability using dynamic contrast - enhanced T₁ - weighted MRI: a simulation and in vivo study on healthy subjects and multiple sclerosis patients. J Cereb Blood Flow Metab, 2014, 34:1655-1665.
 - [28] Edgell RC, Vora NA. Neuroimaging markers of hemorrhagic risk with stroke reperfusion therapy. Neurology, 2012, 79(13 Suppl 1):100-104.
 - [29] Ozkul - Wermester O, Guegan - Massardier E, Triquenot A, Borden A, Perot G, Gérardin E. Increased blood-brain barrier permeability on perfusion computed tomography predicts hemorrhagic transformation in acute ischemic stroke. Eur Neurol, 2014, 72:45-53.
 - [30] Caserta MT, Caccioppo D, Lapin GD, Ragin A, Groothuis DR. Blood-brain barrier integrity in Alzheimer's disease patients and elderly control subjects. J Neuropsychiatry Clin Neurosci, 1998, 10:78-84.
 - [31] Erickson MA, Banks WA. Blood-brain barrier dysfunction as a cause and consequence of Alzheimer's disease. J Cereb Blood Flow Metab, 2013, 33:1500-1513.
 - [32] Deane R, Bell RD, Sagare A, Zlokovic BV. Clearance of amyloid-beta peptide across the blood - brain barrier: implication for therapies in Alzheimer's disease. CNS Neurol Disord Drug Targets, 2009, 8:16-30.
 - [33] van Assema DM, Lubberink M, Bauer M, van der Flier WM, Schuit RC, Windhorst AD, Comans EF, Hoetjes NJ, Tolboom N, Langer O, Müller M, Scheltens P, Lammertsma AA, van Berckel BN. Blood - brain barrier P - glycoprotein function in Alzheimer's disease. Brain, 2012, 135:181-189.
 - [34] van de Haar HJ, Burgmans S, Hofman PA, Verhey FR, Jansen JF, Backes WH. Blood-brain barrier impairment in dementia: current and future in vivo assessments. Neurosci Biobehav Rev, 2015, 49:71-81.

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· 临床医学图像 ·

脑膜黑色素细胞瘤

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Meningeal melanocytoma

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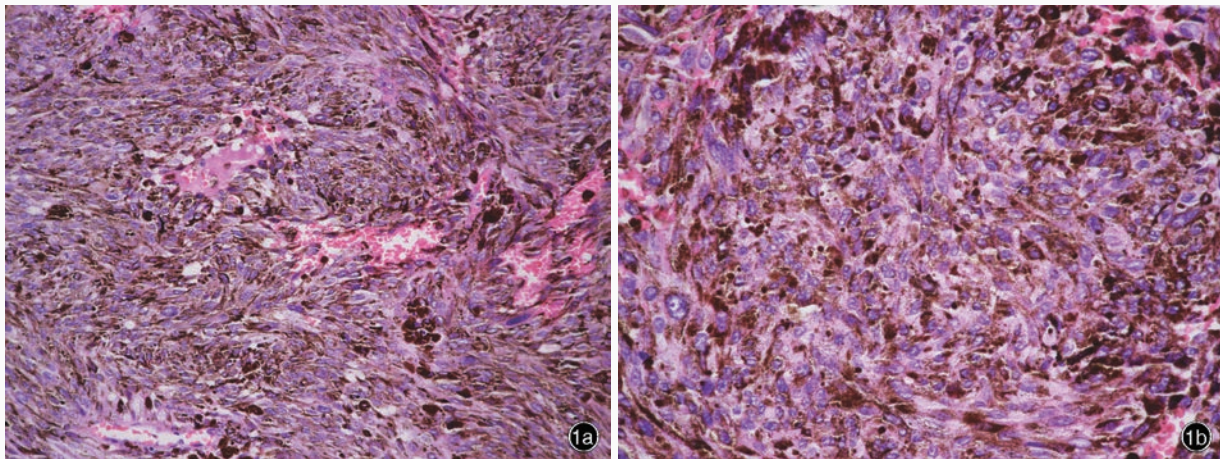


图1 光学显微镜观察所见 HE染色 1a “编织”状间质内可见巢片状富含黑色素的梭形肿瘤细胞 ×200 1b 肿瘤细胞胞核呈椭圆形或豆形,核仁可见,呈嗜酸性 ×400

Figure 1 Optical microscopy findings HE staining Spindle tumor cells rich in melanin were arranged in nests within "braided" mesenchyma (Panel 1a). ×200 The nuclei of tumor cells were oval or bean-shaped, with eosinophilic nucleoli (Panel 1b). ×400

脑膜黑色素细胞瘤是一种源于软脑膜黑色素细胞,组织学形态分化良好,呈实性、非浸润性的黑色素细胞瘤,是一种孤立性、不伴周围组织浸润的低级别肿瘤。组织学形态特征性表现为上皮样、纺锤形、多形或梭形黑色素细胞,无间变、坏死,核分裂象少见;梭形或椭圆形肿瘤细胞内含有数目不等的黑色素,呈紧密巢状,类似脑膜瘤“漩涡”样结构(图1a),边缘可见富含黑色素的肿瘤细胞和巨噬细胞;胞核呈椭圆形或豆形,偶见核沟,核仁可见,呈嗜酸性(图1b)。偶可见肿瘤复发。

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