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囊性脑膜瘤的MRI表现与病理对照

MRI features of cystic meningioma: Comparison with histopathology

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中文摘要:

目的 分析囊性脑膜瘤的MRI表现。方法 依照Nauta分型分析44例囊性脑膜瘤的MRI表现。结果 44例囊性脑膜瘤中,Nauta I型9例,II型5例,III型2例,IV型16例,混合型(包括以上4种类型中的2种或2种以上类型)12例。病理类型以纤维型、上皮型多见。MRI多表现为实性肿物伴有大小不等的囊变区,囊性部分均表现为长T1长T2信号,FLAIR呈低或稍低信号,DWI为低信号;实性部分以等或长T1长T2信号为主,FLAIR呈等或高信号,DWI为等或高信号;增强扫描中实性部分呈中度或明显强化,其中29例均匀强化、15例呈不均匀强化,27例囊壁强化。结论 囊性脑膜瘤的MRI表现具有一定特征性,对临床诊断和治疗有一定的指导意义。

英文摘要:

Objective To observe MRI features of cystic meningioma. **Methods** MRI findings of 44 patients with pathologically proved cystic meningioma were reviewed according to Nauta types. **Results** In 44 patients, 9 tumors were Nauta I, 5 were Nauta II, 2 were Nauta III, 16 were Nauta IV, and 12 were mixed type (included at least two kinds of Nauta types). Fibroblastic and endotheliomatous meningiomas were common. The cystic part of most tumors were parenchymatous, and showed long T1 and long T2 signal, low or slightly low signal intensity on FLAIR sequence, and low signal intensity on DWI. The solid part of tumors were mostly equal or long T1 and long T2 signal, equal or high signal intensity on FLAIR and DWI. After injecting of contrast agent, the solid part of the tumors showed moderate or marked enhancement, with homogeneous enhancement in 29 and heterogeneous enhancement in 15 patients. The wall of the cystic part enhanced in 27 patients. **Conclusion** Cystic meningioma has characteristic MRI features, which usually contribute to clinical diagnosis and treatment.

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