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头部少见部位不典型原始神经外胚层肿瘤的MRI特征

MRI features of primitive neuroectodermal tumor of the head at uncommon locations

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中文摘要:

目的 探讨头部少见部位不典型原始神经外胚层肿瘤(PNET)的MRI表现特征。方法 回顾性分析4例经病理证实的少见部位PNET的MR平扫及增强扫描资料。结果 1例PNET发生在3脑室内,沿3脑室塑形生长,实质均匀,T1WI呈稍低信号、T2WI呈稍高信号改变,增强后未见强化;1例PNET发生在右侧颈静脉孔区,呈囊实混杂信号改变,右侧枕骨受侵,增强后囊变周围实质呈明显强化;1例PNET发生在左侧颞区硬膜外,见弥漫性蜂窝状囊变,左侧颞骨受侵,增强后囊变间隔呈明显强化;1例PNET发生在侧脑室中线旁,基底部位于透明隔,呈囊实混杂信号,增强后囊变周围实质呈明显强化。4例PNET在MRI影像上均未见周围水肿带,增强后囊变周围实性成分强化程度与囊变程度关系密切,与病理结果一致。结论 头部少见部位不典型PNET表现各异,但仍有一定特征;MRI对术前诊断本病有重要参考价值。

英文摘要:

Objective To explore MRI features of primitive neuroectodermal tumor (PNET) of the head at uncommon locations. **Methods** MRI features of 4 cases with PNET confirmed by pathology in uncommon locations of the head were analyzed retrospectively. **Results** The tumors located in the third ventricle, the right jugular foramen, left temporal and epidural region and the lateral ventricle, respectively. The one in the third ventricle shaped along the third ventricle, with uniform components showing slightly hypointensity on T1WI and hyperintensity on T2WI without enhancement. PNET in the right jugular foramen showed cystic-solid mixed signal intensity, with strong enhancement of the solid portion and the right occipital bone was eroded. The tumor in the left temporal and epidural region showed diffuse cystic honeycomb-like appearance, with the solid part strongly enhanced and the adjacent left temporal bone involved. The one in the lateral ventricle showed mixed intensity with remarkable enhancement around. No surrounding edema was found. There was close relation between enhancement of the solid and the cystic degree, which was corresponding to pathological results. **Conclusion** There are different MRI performances of atypical PNET in uncommon locations of the head, but some certain features which might lead to correct diagnosis still could be observed. MRI has important reference value for preoperative diagnosis of PNET.

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