

# 功能磁共振成像对Leigh综合征脑部病变的序贯评价 [\(点击查看pdf全文\)](#)

《南方医科大学学报》[ISSN:/CN:] 期数: 2012年10期 页码: 1474 栏目: 出版日期: 2012-10-01

Title: Sequential evaluation of brain lesions using functional magnetic resonance imaging in patients with Leigh syndrome

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关键词: [Leigh病](#); [扩散加权成像](#); [灌注成像](#); [磁共振波谱学](#)

Keywords: [Leigh disease](#); [diffusion weighted imaging](#); [perfusion weighted imaging](#); [magnetic resonance spectroscopy](#)

分类号: -

DOI: -

文献标识码: -

摘要: 目的探讨功能磁共振成像对Leigh综合征患者脑部病变进行序贯评价的价值。方法对2例诊断为Leigh综合征的患者

脑部病变进行基线及随访水平的扩散加权成像(DWI), 脑灌注成像及氢质子磁共振波谱(1

H-MRS)分析。结果Leigh综合征患

者脑部病变DWI为高信号, 灌注主要表现为高灌注, MRS主要表现为乳酸双峰。1年后2例患者的脑部病变DWI仍为高信号, 1

例患者脑部病变仍为高灌注, MRS表现为乳酸峰消失。2年后1例患者的脑部病灶DWI仍为高信号。结论功能磁共振成像可

以敏感地凸显Leigh综合征患者脑部病变的特点, 可以评价Leigh综合征患者脑部病变的序贯变化。

Abstract: ObjectiveTo investigate the value of functional magnetic resonance imaging (MRI) in sequential evaluation of

patients with Leigh syndrome.MethodsTwo patients with Leigh syndrome underwent diffusion weighted imaging (DWI),

perfusion weighted imaging (PWI) and proton magnetic resonance spectroscopy (<sup>1</sup>H-MRS).ResultsThe brain lesions showed

hyperintensity on DWI, lactate doublet peak on MRS and hyperperfusion in the patients at baseline, and maintained a

hyperintensity on DWI and hyperperfusion in the absence of lactate doublet peak on MRS at follow-up1year later. DWI still

revealed persistent hyperintensity in the brain lesions in one patient2years later.ConclusionFunctional MRI can sensitively

highlight the characteristics of brain lesions in patients with Leigh syndrome, and can therefore be used to evaluate the

sequential changes of the brain lesions.

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