

曲鑫鑫,孙洪赞,朱文珍,卢再鸣*.DWI联合动脉自旋标记及MRA评价脑梗死缺血半暗带[J].中国医学影像技术,2014,30(1):11~15

DWI联合动脉自旋标记及MRA评价脑梗死缺血半暗带

Pulsed arterial spin-labeling combined with DWI and MRA for evaluation of ischemic penumbra

投稿时间: 2013-07-08 最后修改时间: 2013-10-22

DOI:

中文关键词: [动脉自旋标记](#) [扩散磁共振成像](#) [缺血半暗带](#)

英文关键词: [Arterial spin labeling](#) [Diffusion magnetic resonance imaging](#) [Ischemic penumbra](#)

基金项目: 国家“十二五”科技支撑计划课题项目(2011BAI08B10)。

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中文摘要:

目的 观察DWI联合动脉自旋标记(ASL)、MRA评价急性脑梗死缺血半暗带(IP)的价值。方法 对40例发病时间在24 h内的急性脑梗死患者行常规MR、MRA、DWI及ASL检查,根据ASL灌注异常区面积与DWI信号异常区面积分为ASL>DWI组、ASL≈DWI组、ASL结果 ASL>DWI组(即IP患者)25例(25/40, 62.50%),血管狭窄程度以0、1级为主;其病灶中心ADC值和rCBF信号强度值与IP区及健侧相比均显著下降($P<0.001$),IP区ADC值与健侧相比未见明显下降($P=0.59$),而rCBF较健侧下降明显($P<0.001$)。ASL≈DWI组2例(2/40, 5.00%),ASL结论 ASL技术能探查大面积急性脑梗死的灌注情况;联合应用DWI、ASL、MRA有助于判断IP。

英文摘要:

Objective To observe the value of arterial spin-labeling (ASL) combined with DWI and MRA in identifying ischemic penumbra (IP) for patients with acute stroke. **Methods** Forty patients with infarction within 24 h were enrolled. All patients underwent ASL, DWI and MRA examination, and were classified into ASL>DWI group (IP group), ASL≈DWI group and ASLResults There were 25 cases in ASL>DWI group (25/40, 62.50%), among them steno-occlusion were mainly graded as 0 and 1. Significant differences were found between infarct core and IP areas, as well as contralateral on ADC and rCBF ($P<0.001$). The distinction of IP areas between ipsilateral and contralateral cerebral tissue had no statistical significance on ADC ($P=0.59$), whereas had significance on rCBF ($P<0.001$). There were 2 cases (2/40, 5.00%) in ASL≈DWI group and 4 cases (4/40, 10.00%) in ASL<DWI group, 1 ($n=1$) and 3 ($n=4$). **Conclusion** ASL can be used to evaluate perfusion status of large area acute stroke. ASL combined with DWI and MRA can be helpful to diagnosing IP.

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