

2014-06-09 星期一

[首页](#) | [本刊简介](#) | [编委会](#) | [收录情况](#) | [投稿须知](#) | [期刊订阅](#) | [稿件查询](#) | [广告招商](#) | [会议](#)

许化致,陈伟建,王美豪,曹国全,朱姬莹.CT灌注成像评价急性自发性高血压脑出血患者的近期预后[J].中国医学影像技术,2012,28(12):2132~2135

## CT灌注成像评价急性自发性高血压脑出血患者的近期预后

### Evaluation on recent prognosis of patients with acute spontaneous hypertension and intracerebral hemorrhage with CT perfusion

投稿时间: 2012-08-14 最后修改时间: 2012-09-20

DOI:

中文关键词: [脑出血](#) [体层摄影术.X线计算机](#) [灌注成像](#) [预后](#)

英文关键词: [Cerebral hemorrhage](#) [Tomography, X-ray computed](#) [Perfusion imaging](#) [Prognosis](#)

基金项目:温州市科技局资助项目(2009S0435)。

作者	单位	E-mail
许化致	温州医学院附属第一医院放射科,浙江 温州 325800	xuhuazhi174@yahoo.cn
陈伟建	温州医学院附属第一医院放射科,浙江 温州 325800	
王美豪	温州医学院附属第一医院放射科,浙江 温州 325800	
曹国全	温州医学院附属第一医院放射科,浙江 温州 325800	
朱姬莹	温州医学院附属第一医院放射科,浙江 温州 325800	

摘要点击次数: 380

全文下载次数: 101

中文摘要:

目的 应用CT灌注成像(CTP),对急性自发性高血压出血性脑卒中(shICH)血肿周围脑血流动力学变化进行定量测量,评价脑血肿周围组织灌注参数改变与近期预后的相关性。方法 对26例临床及CT确诊的幕上shICH患者行CTP检查,自发病到灌注扫描的时间为8~19 h。以血肿最大层面为参照,测量血肿周围1 cm内及对侧镜像区脑血流量(CBF)、脑血容量(CBV)、平均通过时间(MTT),获得相对灌注参数值rCBF、rCBV、rMTT(患侧/健侧)。电话随访患者脑出血后1个月生活表现,并记录日常生活活动能力量表(BI)分值。结果 shICH血肿周围带CBV值为( $1.61 \pm 1.53$ ) ml/100 g, CBF值为( $16.48 \pm 12.58$ ) ml/(100 g • min),明显低于对侧镜像区( $Z = -2.603, -4.178, P < 0.05$ );MTT值为( $9.12 \pm 2.57$ ) s,较对侧镜像区明显延长( $t = 4.747, P < 0.05$ )。血肿周围CBV、CBF值与BI相关( $Z = -3.40, -2.98, P < 0.01$ ),参数MTT、rCBF、rCBV、rMTT与近期预后无关( $P > 0.05$ );ROC曲线下面积分别为0.897、0.848,且CBV界限值为1.24 ml/100 g时,敏感度66.67%,特异度为100%;CBF界限值为8.44 ml/(100 g • min)时,敏感度100%,特异度为72.70%。结论 CTP可预测shICH血肿患者近期预后,在一定范围内,血肿周围CBV、CBF值越大,提示预后越差。

英文摘要:

**Objective** To evaluate the relationship between CT perfusion parameters of the perihematomal brain tissue and the recent prognosis of patients with acute spontaneous hypertensive intracerebral hemorrhage (shICH). **Methods** Twenty-six patients with clinically and CT diagnosed acute supratentorial shICH received CTP within 8–19 h after the onset of symptoms. At the maximum level of the hematoma, cerebral blood flow (CBF), cerebral blood volume (CBV) and mean transit time (MTT) of perihematomal area (isodense within 1 cm rim of perilesion area on plain CT) and contralateral mirrored hemisphere were measured, and rCBF, rCBV, rMTT were calculated (ipsilateral/contralateral). The results of 1-month follow-up in accordance with daily living table (Barthel index, BI) by telephone were recorded. **Results** CBV, CBF and MTT value of perihematoma area was ( $1.61 \pm 1.53$ ) ml/100 g, ( $16.48 \pm 12.58$ ) ml/(100 g • min) and ( $9.12 \pm 2.57$ ) s, respectively. Significantly decreased CBV, CBF and prolonged MTT in the perihematomal zone were observed against contralateral hemisphere ( $Z_{CBV} = -2.603, Z_{CBF} = -4.178, t_{MTT} = 4.747$ , all  $P < 0.05$ ). Perihematomal absolute values of CBV and CBF were indicative of recent prognosis ( $Z = -3.40, -2.98$ , both  $P < 0.01$ ), while no correlation of MTT, rCBF, rCBV, rMTT with recent prognosis was noticed (all  $P > 0.05$ ). The area under the curve (AUC) was 0.897, 0.848, respectively. Taking perihematma CBV of 1.24 ml/100 g as the threshold value, the sensitivity was 66.67% and the specificity was 100%, while taking CBF of 8.44 ml/(100 g • min) as the threshold value, the sensitivity was 100% and the specificity was 72.70%. **Conclusion** CTP can indicate the recent prognosis of acute shICH patients. Within a certain range, the recent prognosis declines with the increase of CBV and CBF value.

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

您是第6321162位访问者

版权所有:《中国医学影像技术》期刊社

主管单位:中国科学院 主办单位:中国科学院声学研究所

地址:北京市海淀区北四环西路21号大猷楼502室 邮政编码:100190 电话:010-82547901/2/3 传真:010-82547903

京ICP备12000849号-1

本系统由北京勤云科技发展有限公司设计