中国医学影像技术

CHINESE JOURNAL OF MEDICAL IMAGING TECHNOLOGY

设为首页 | 加入收藏 | 联系我们

2014-05-26 星期-

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

柳标.许良标,吴明双,周晓东,赵宝珍.彩色多普勒超声检测双侧颈内动脉闭塞患者侧支循环及血流动力学[J].中国医学影像技术,2012,28(6):1085~1088

彩色多普勒超声检测双侧颈内动脉闭塞患者侧支循环及血流动力学

Color Doppler ultrasonography in detection of intracranial arterial collateral circulations and hemodynamics in patients with bilateral internal carotid artery occlusion

投稿时间: 2011-09-22 最后修改时间: 2011-10-24

DOI.

中文关键词: 颈内动脉 颈动脉疾病 超声检查,多普勒,彩色 侧支循环 血流动力学

英文关键词:Carotid artery, internal Carotid artery diseases Ultrasonography, Doppler, color Collateral circulation Hemodynamics

基金项目:

作者 单位 E-mail

<u>柳标</u> 上海交通大学医学院苏州九龙医院超声科,江苏 苏州 215021

许良标 上海交通大学医学院苏州九龙医院超声科,江苏 苏州 215021

吴明双 上海交通大学医学院苏州九龙医院超声科,江苏 苏州 215021

周晓东 上海交通大学医学院苏州九龙医院超声科、江苏 苏州 215021

赵宝珍 第二军医大学附属长海医院超声科,上海 200433 bzzhaocncn@yahoo.com.cn

摘要点击次数:472

全文下载次数:150

中文摘要:

目的 探讨彩色多普勒超声检测双侧颈内动脉闭塞患者颅内动脉侧支循环代偿途径及血流动力学状况的价值。方法 对7例双侧颈内动脉闭塞患者(患者组)和对照组7名健康成人,应用彩色多普勒超声检测双侧眼动脉(OA)及颅内动脉、分别根据患者OA反向血流及大脑后动脉(PCA)P1段峰值血流速度(Vs)大于对照组(Ax-G+2s)来判断OA、Willis环后交通动脉侧支循环代偿途径,并比较患者组与对照组大脑中动脉(MCA)、大脑前动脉(ACA)的平均血流速度(Vm)。结果 7例患者均存在双侧OA反向血流、双侧椎动脉、基底动脉Vm明显高于对照组(P均<0.05);4例左侧PCA P1段和3例右侧PCA P1段Vs大于对照组:MCA、ACA Vm较对照组明显降低(P均<0.05)。结论 双侧ICA闭塞患者存在OA及后交通动脉两种侧支循环代偿途径,但其颅内动脉仍供血不足。彩色多普勒超声能实时评价颅内动脉侧支循环血供和血流动力学变化。

英文摘要:

Objective To observe the value of color Doppler ultrasonography in detection of intracranial arterial collateral circulations and hemodynamics in patients with bilateral internal carotid artery occlusion. Methods Seven patients with bilateral internal carotid artery (ICA) occlusion (patient group) and 7 healthy people (control group) were involved. The ophthalmic artery (OA) and cerebral artery were observed with color Doppler ultrasonography, and middle cerebral artery (MCA) and anterior cerebral artery (ACA) of mean blood flow velocities (Vm) were compared between the two groups. Collateral pathways through bilateral OA and posterior communicating artery (PCOA) were suggested when reversal of blood flow in OA was found and the peak systolic velocity (Vs) in P1 segment of posterior cerebral artery (PCA) was larger than Vs in control group (Ax-G +2s), respectively. Results Reversal blood flow of bilateral OA was found in all 7 patients, Vm of bilateral vertebral artery and basilar artery in experimental group were larger than that in control group (both P<0.05). Vs of P1 segment in left PCA of 4 patients and right PCA of 3 were larger than that in control group, but Vm of MCA and ACA in patient group was lower than that in control group (both P<0.05). Conclusion There were two ways of collateral circulation in patients with bilateral ICA occlusion, but the intracranial arterial blood supply was still insufficient. The intracranial arterial collateral blood circulations and the changes of hemodynamics can be real time evaluated with color Doppler ultrasonography.

查看全文 查看/发表评论 下载PDF阅读器

您是第6283513 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