

论著

原发性开角型与闭角型青光眼彩色图形翻转视觉诱发电位的差异

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摘要

目的: 探讨彩色图形翻转视觉诱发电位 (color pattern reversal visual evoked potential, CPR-VEP) 在原发性开角型及闭角型青光眼中的表现差异。方法: 采用法国Metro Vision公司生产的Vision Monitor视觉电生理仪对12例 (17眼) 原发性开角型青光眼患者 (primary open angle glaucoma, POAG)、41例 (56眼) 原发性闭角型青光眼患者 (primary angle closure glaucoma, PACG) 和13例健康者 (26只眼) 在不同时间频率 (1, 2, 4, 8, 16及32 Hz) 及色彩刺激 (黑/白, 红/绿, 蓝/黄) 下记录CPR-VEP的变化, 比较P100波波幅值和潜伏期值。结果: 3组研究对象在3种色彩刺激下CPR-VEP P100波幅随着时间频率的增加而下降; 不同色彩刺激下P100潜伏期随着时间频率的增加而逐渐延长。CPR-VEP P100波幅值排列均为: PACG组>NC组>POAG组; 黑/白>蓝/黄>红/绿。POAG组和PACG组P100潜伏期值均较NC组延长, 但POAG组和PACG组间无统计学差异。结论: PACG和POAG患者的CPR-VEP P100波幅-时间频率曲线具有各自的特点, P100波幅值PACG者较高而POAG者较低, 潜伏期均较正常延长。

关键词 [原发性青光眼; 彩色图形翻转视觉诱发电位; 时间频率; 波幅; 潜伏期](#)

分类号

Color pattern reversal visual evoked potentials in primary open angle and angle closure glaucoma

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Abstract

Objective To investigate the difference in color pattern reversal visual evoked potential (CPR-VEP) between primary open angle glaucoma (POAG) and primary angle closure glaucoma (PACG) patients. Methods Vision Monitor visual electrophysiograph made by Metro Vision Inc. in France was used to record CPR-VEP in 17 eyes of 12 POAG patients, 56 eyes of 41 PACG patients, and 26 eyes of 13 age-equivalent normal persons at an ascending series of temporal frequency (1, 2, 4, 8, 16, and 32 Hz) and color stimulation (black/white, red/green, and blue/yellow). P100 wave amplitudes and latencies of these patients were compared respectively with those of the normal group. Results With black / white stimulation, the P100 wave amplitudes were reduced with the increase of temporal frequency in the 3 groups. The P100 wave latencies were extended with the increase of temporal frequency with different color stimulations. The P100 amplitudes were PACG group > NC group > POAG group and black/white > blue/yellow > red/green. The P100 wave latencies in the POAG group and the PACG group were extended compared with the NC group, but there was no significant difference between PACG group and POAG group. Conclusion CPR-VEP P100 amplitudes in the PACG group and POAG group have their own characteristics. The P100 amplitude of PACG is higher, and POAG is lower than normal. The P100 wave latencies of PACG and POAG are extended.

Key words [primary glaucoma](#) [color pattern reversal visual evoked potential](#) [temporal frequency](#) [amplitude](#) [latency](#)

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