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- English
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最新目录 | 过刊浏览 | 高级检索

前一篇 | 后一篇

### 不同位置1.8 mm切口白内障超声乳化术对视觉质量的影响

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### Preliminary study on visual quality of 1.8 mm clear corneal incision phacoemulsification surgery with different locations

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摘要 图/表 参考文献(0) 相关文章 (15)

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#### 摘要

目的 观察1.8 mm微切口白内障超声乳化术中不同位置透明角膜切口术后角膜波前像差及对比敏感度的变化。方法 前瞻性随机对照研究。选取武汉大学人民医院连续性年龄相关性白内障患者86例(86眼),按区组随机化法分为2组:A组:颞侧10点位或颞侧2点位切口组,共43例(43眼);B组:12点位切口组,共43例(43眼)。于术后1个月及3个月行角膜波前像差和对比敏感度检查。采用独立样本t检验、秩和检验和卡方检验进行数据分析。结果 术后1个月及3个月2组间比较视力差异有统计学意义( $\chi^2=8.053, 10.532, P<0.05$ )。术后1个月及3个月A组和B组Z42系数分别为( $0.03\pm 0.04$ )  $\mu\text{m}$ 和( $0.09\pm 0.06$ )  $\mu\text{m}$ 、( $0.03\pm 0.03$ )  $\mu\text{m}$ 和( $0.08\pm 0.04$ )  $\mu\text{m}$ ,两组比较差异有统计学意义( $t=4.54, 4.93, P<0.05$ )。术后1个月及3个月2组间角膜总高阶像差比较,差异有统计学意义( $t=2.16, 2.76, P<0.05$ )。术后1个月与3个月2组对比敏感度比较,明光及明光眩光各空间频率条件下,差异无统计学意义,2组在暗光及暗光眩光各空间频率下比较,差异均有统计学意义( $P<0.05$ )。结论 1.8 mm透明角膜切口白内障超声乳化术颞侧10点位或颞侧2点位切口较12点位切口角膜波前像差小,视觉质量好,是较理想的手术切口位置。

关键词 : 超声乳化白内障切除术, 微切口, 波前像差, 对比敏感度

#### Abstract :

Objective To observe clear corneal incision aberrations and contrast sensitivity corneal wavefront after 1.8 mm micro-incision phacoemulsification with different locations. Methods 86 patients (86 eyes) with age-related cataract in our Hospital Kenmin of Wuhan University were selected, use in randomization method divided into two groups according to different locations: temporal 10:00 bit incision or temporal 2:00 bit incision group: 43 cases (43 eyes); 12:00 bit incision group: 43 cases (43 eyes). Corneal wavefront aberrations and contrast sensitivity were recorded preoperative and postoperative at 1 month and 3 months. Independent sample t tests, rank sum test, chi-square test were used. Results The differences of visual acuity between the 2 groups was statistically significant after 1 month and 3 months postoperation ( $\chi^2=8.053, 10.532, P<0.05$ ). 1 month and 3 months postoperation Z42 in group A and group B were  $0.03\pm 0.04 \mu\text{m}$  and  $0.09\pm 0.06 \mu\text{m}$ ,  $0.03\pm 0.03 \mu\text{m}$  and  $0.08\pm 0.04 \mu\text{m}$ , respectively. The difference was statistically significant ( $t=4.54, 4.93, P<0.05$ ). The difference was statistically significant in total higher order aberrations ( $t=2.16, 2.76, P<0.05$ ). There was no statistically significant differences in contrast sensitivity between the 2 groups 1 month and 3 months postoperation. Bright and bright glare under each spatial frequency conditions or dark and dark glare under different frequency conditions with statistically significant differences between the 2 groups ( $P<0.05$ ). Conclusion 1.8 mm clear corneal incision phacoemulsification incision with temporal corneal incision has less wavefront aberrations and better visual quality than the 12:00 incision, which is an ideal surgical incision site.

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