

论文

超声乳化术后角膜Q值与泪膜参数的改变

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摘要:

目的 研究白内障超声乳化术后角膜非球面状态与泪膜参数的改变。方法 选取临沂市人民医院白内障患者102例146眼分成透明角膜切口组(A组, 48例71眼), 巩膜切口组(B组, 54例75眼)。分别于白内障超声乳化术前, 术后1d、1周、1个月、3个月进行角膜地形图、角膜荧光素染色试验和泪膜破裂时间(BUT)检查, 并记录角膜Q值、BUT值、荧光素试验分值与干眼症状眼数。结果 ①泪膜破裂时间术后1d、1周、1月与术前比较有明显缩短(P<0.05); 角膜荧光素试验与干眼症状术后1周内变化明显, 术后3月基本恢复正常; ②所有患者角膜Q值术后1d、1周、1个月与术前比较差异有统计学意义(P<0.05); 术后1d A组与B组间对应观察点比较, 角膜Q值差异有统计学意义。③术后1d角膜Q值改变(0.132+0.139)与泪膜破裂时间变化(6.500+2.111s)行Pearson相关分析, R=0.215, P=0.001。结论 白内障超声乳化术后角膜非球面形态与泪膜参数早期都会有不同程度的改变, 随着切口的愈合渐趋恢复; 早期角膜Q值改变与泪膜破裂时间改变存在相关性。

关键词: 超声乳化术; 角膜; 泪膜; Q值

Changes of corneal Q values and lacrimal film parameters after phacoemulsification

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Abstract:

Objective To investigate changes of corneal aspherical parameters and lacrimal film parameters after cataract phacoemulsification. Methods 102 patients (146 eyes) from the Linyi People's Hospital that underwent ultrasonic phacoemulsification were divided into the corneal incision group (group A, 48 cases with 71 eyes) and the scleral incision group (group B, 54 cases with 75 eyes). The symptoms of dry eye, tear break up time(BUT), corneal fluorescein staining and corneal map were measured preoperatively and 1 day, 1week, 1month and 3months postoperatively. Results ①BUT values 1 day, 1 week and 1 month postoperatively were shorter than preoperative(P<0.05), corneal fluorescein and dry eye symptom changed significantly 1 week postoperatively, and returned to normal after 3 months. ②The corneal Q value apparently changed 1day, 1week and 1month postoperatively (P<0.05) and there was no statistical significance between groups A and B, except 1 day postoperatively. ③Pearson correlation analysis revealed a statistically significant correlation between changes of the Q value (0.132+0.139) and BUT(6.500+2.111s) 1 day postoperatively(R=0.215, P=0.001).

Conclusions In the early stage after phacoemulsification, corneal aspherical and lacrimal film parameters have some changes, and there is a correlation between them. Then all the parameters return to normal with the healing of incisions.

Keywords: Phacoemulsification; Cornea; Lacrimal film; Q-value

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