

- 首页
- 期刊简介
- 期刊查询
- 业务中心
- 期刊订阅
- 广告服务
- 联系我们
- 留言板
- English
-

GO

高级检索

中华眼视光学与视觉科学杂志 » 2014, Vol. 16 » Issue (3): 150-154 DOI: 10.3760/cma.j.issn.1674-845X.2014.03.006

论著

最新目录 | 过刊浏览 | 高级检索

前一篇 | 后一篇

超高分辨率眼前节OCT评价翼状胬肉术后绷带式角膜接触镜的治疗效果

陈鼎, 连燕, 黄芳, 李瑾, 吕帆

325027 温州医科大学附属眼视光医院

An evaluation of the therapeutic effect of the bandage contact lenses after pterygium surgery using ultra-high resolution optical coherence tomography

Chen Ding, Lian Yan, Huang Fang, Li Jin, Lyu Fan

摘要 图/表 参考文献(11) 相关文章(15)

全文: PDF (1664 KB)

输出: BibTeX | EndNote (RIS)

摘要

目的 应用超高分辨率眼前节OCT (UHR-OCT) 技术评价翼状胬肉术后绷带式角膜接触镜 (BCL) 的治疗效果。方法 前瞻性病例对照研究。选取行翼状胬肉切除联合自体结膜移植术的患者60例 (60眼)。随机分成2组: 观察组和对照组各30眼, 观察组在手术未予配戴博士伦纯视BCL 1片。术后连续3 d, 之后隔天复查至角膜上皮完全愈合, 用UHR-OCT扫描评价角膜上皮愈合情况, 最终愈合通过荧光素染色确认。术后疼痛值采用视觉模拟评分法 (VAS)。2组间的上皮愈合时间比较采用独立样本t检验, VAS疼痛值的比较采用Mann-Whitney U检验。结果 观察组所有患者均成功地配戴BCL, 无一例出现角膜接触镜相关并发症。在佩戴情况下, UHR-OCT清晰地显示术后角膜的超微形态学特征, 连续扫描显示角膜上皮的动态愈合过程。UHR-OCT判断的角膜上皮愈合与荧光素染色结果具有高度一致性 (符合率为95%)。基于UHR-OCT的评估, 角膜上皮愈合平均时间观察组为 (3.7±1.2) d, 对照组为 (4.8±1.5) d (t=16.78, P<0.01)。观察组的VAS疼痛值在术后各个时间点均显著低于对照组 (Z=-4.75, -3.84, -2.96, -2.52, -1.98, P均<0.05)。结论 BCL可明显缩短翼状胬肉术后角膜上皮修复时间, 减少术后疼痛, 可作为胬肉术后的辅助治疗措施。UHR-OCT作为一种非接触式检查手段, 是监测胬肉术后角膜上皮愈合的理想工具, 可为适时取出BCL提供参考。

关键词 : 翼状胬肉, 接触镜, 亲水性, 体层摄影术, 光学相干, 角膜

Abstract :

Objective To evaluate the therapeutic effect of the bandage contact lens (BCL) using ultra-high resolution optical coherence tomography (UHR-OCT) after pterygium surgery. Methods Prospective case-control study. Sixty eyes of 60 patients undergoing pterygium excision and conjunctival autografting were randomly allocated into 2 groups: 30 eyes were covered with silicone hydrogel BCLs at the conclusion of surgery and 30 eyes served as a control. UHR-OCT scans of the cornea were performed sequentially on day 1, day 2, day 3, and then every other day until the end of re-epithelialization after surgery. Complete corneal epithelial healing was verified with fluorescein staining after removal of the BCLs. Post-surgical pain was evaluated using the visual analogue scale (VAS). An independent t test and a Mann-Whitney U test were used. Results All BCLs were successfully fit without any contact lens-related complications. UHR-OCT images clearly revealed the architectural features of the postoperative cornea with BCL in situ and showed the epithelial healing process. UHR-OCT imaging highly agreed with the fluorescein staining in detecting corneal epithelial defects (95%). Based on the assessment by UHR-OCT, the average time line for re-epithelialization in the BCL group was 3.7±1.2 days while in the control group it was 4.8±1.5 days (t=16.78, P<0.01). VAS scores reported lower pain levels in the BCL group compared to the control group at each time point (Z=-4.75, -3.84, -2.96, -2.52, -1.98, all P<0.05). Conclusion Silicone hydrogel BCL is recommended as an adjuvant therapy after pterygium surgery for its efficacy in improving re-epithelialization and postoperative comfort. UHR-OCT is an excellent tool in monitoring corneal epithelial healing under BCLs and determining the appropriate time for lens removal.

Key words : Pterygium Contact lenses, hydrophilic Optical coherence, tomography Cornea

服务

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ E-mail Alert
- ▶ RSS

作者相关文章

- ▶ 陈鼎
- ▶ 连燕
- ▶ 黄芳
- ▶ 李瑾
- ▶ 吕帆

收稿日期: 2013-12-03

基金资助:

温州市科技局科技计划项目 (Y20130129)

通讯作者: 陈鼎, Email : necoding@gmail.com

引用本文:

陈鼎,连燕,黄芳,李瑾,吕帆. 超高分辨率眼前节OCT评价翼状胬肉术后绷带式角膜接触镜的治疗效果[J]. 中华眼视光学与视觉科学杂志, 2014, 16(3): 150-154. Chen Ding,Lian Yan,Huang Fang,Li Jin,Lyu Fan. An evaluation of the therapeutic effect of the bandage contact lenses after pterygium surgery using ultra-high resolution optical coherence tomography. Chinese Journal of Optometry Ophthalmology and Visual Science, 2014, 16(3): 150-154.

链接本文:

<http://www.cjoovs.com/CN/10.3760/cma.j.issn.1674-845X.2014.03.006> 或 <http://www.cjoovs.com/CN/Y2014/V16/I3/150>



版权所有 © 2013 - 2014 《中华眼视光学与视觉科学杂志》

地址：浙江省温州市茶山高教园区温州医科大学同心楼606室 邮编：325035

电话：86-577-86699366 传真：86-577-86699366 Email：zhysgx@vip.126.com

本系统由北京玛格泰克科技发展有限公司设计开发 总访问量：51La

浙ICP备12004924号-1