Evaluation of dry eye syndrome after Phacoemulsmcation

Abstract

Objective:To analysis the dry eye syndrome of age-related patients after cataract surgery using Keratogragh D.

Methods:35 cases(50 eyes) with cataract selected from december 2013 to march 2014 in the department of opthalmology in our hospital were involved in this study.All of them took phacoemulsification combined with intaocular lens implantation. We observed and recorded the following indicators in 1 day before,7 days and 1 month after the surgery respectively-The score of dry eye symptoms; Meibo-Scan，Non-invasive Tear break up time (NIBUT) and Tear Meniscus Height were measured by Keratograph D.

Result: Compared with 1 day before surgery,the score of dry eye symptoms was obviously higher,the tear meniscus height reduced significantly and the tear break up time shortened in seven days and one month after the operation,the differences were stastically significant($p < 0.05$).While the meibomian gland orifices and glandular tubes had no change after the operation.

Conclusion:The cataract surgery can influent the ocular surface and break the stability of tear film in a short time after the operation，which induce the postoperative dry eye syndrome that should be treated actively.

Key words: Cataract，dry eye，tear film，Keratogragh D