

THE INFLUENCE OF THE SUTURE IN DIFFERENT SCLERAL FLAP SHAPES ON IOP CHANGE AFTER POST-FILTERING LASER SUTURELYSIS

Chun Chen Chen¹, Tai-Wen Wang¹, Shioh-Wen Liou^{1,2}

Purposes: to compare the effect of the different suture between two shapes of scleral flap (square and circular) and study the result of laser suture lysis.

Materials and methods: Forty-six primary open angle glaucoma patients were enrolled in the study and randomly assigned to undergo filtering surgery with square or circular scleral flap. The eyes were divided into two groups according to different suture location in the scleral flap. Group 1 sutures were located in the line connected by two neighboring sutures, i.e. A \ B \ C sutures in square scleral flap; group 2 sutures were not located in the line connected by two neighboring sutures, i.e. A \ B \ C sutures in circular

scleral flap. Intraocular pressure reduction after suturelysis was recorded and compared between two groups.

Results: After suture-lysis, intraocular pressure reduction in group 1 sutures was not significantly different from group 2 sutures ($p > 0.01$). Gradual decrease of IOP was not discovered in two groups.

Conclusions: Intraocular pressure reduction was similar in different location of sutures after suture lysis between two groups. The reason might be due to shrinkage of scleral flap, technique of suture lysis and postoperative inflammation.

智慧藏

Received: January, 7, 2000. Revised: December, 7, 2000. Accepted: June, 18, 2001.

¹Department of Ophthalmology, Taipei Municipal Jen-Ai Hospital. ²Department of Ophthalmology, National Taiwan University Hospital.

Correspondence and reprint requests to: Tai-Wen Wang. Department of Ophthalmology, Taipei Municipal Jen-Ai Hospital. 10, Sec. 4, Jen-Ai Rd, Taipei, Taiwan. 106