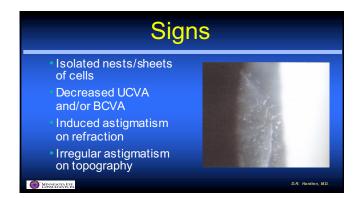


Epithelial Ingrowth Complication of LASIK surgery Incidence 0.5 to 15% Usually observed in first few weeks May be nonprogressive or progressive In most advanced stage may result in flap melt



Removal Lifting and scraping epithelial cells Blunt spatula, Merocal sponge Ethanol used to supplement complete removal MMC – has no role in management PTK to remove additional cells can induce significant irregular astigmatism Nd:YAG Laser treatment Useful for stable pockets of ingrowth where the elevation of the comea causing changes in comfact or vision

Treatment – Prevention of Recurrence Prevention of Recurrence Suturing flap edges Induce striae, irregular astigmatism, requires suture removal, longer recovery Fibrin adhesive application Useful for recurrent cases Longer recovery ■ Residen. No.

Tisseel Fibrin Glue Baxter (tissuesealing.com) Mixture of: Fibrinogen & Thrombin Also has fibrinolysis inhibitor (bovine) Mixed on surface of the eye 30-60 seconds to manipulate it Thrombin can be diluted to slow the setting time 8-10 minutes to dry so BSCL can be placed Dissolves in 10-14 days







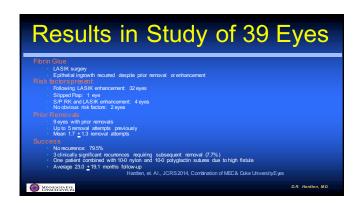






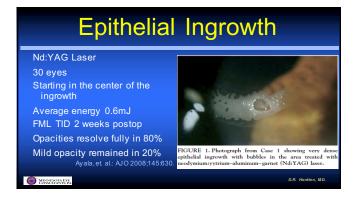






Eyes with ≥ 3 months follow-up (3 to 66 months): Two eyes underwent flap amputation due to irregular astigmatism. One eye had ectasia with subsequent Intacs placement One eye had poor vision from glaucoma (2/200 to CF) 92.3% had unchanged or improved BCVA 5.1% lost one line of BCVA BCVA improved from 61% with 20/25 BCVA preop to 76% at 3 months postop and 84% at last follow-up.

Epithelial Ingrowth Removal Ayala, et. al.: AJO 2008;145:630. 0.6 mJ Variable number of spots depending on amount of ingrowth 40% of cases required 2 or more sessions





Conclusions Fibrin Adhesive Tisseel/Artiss may be a useful adjunct in epithelial ingrowth removal in complicated cases May reduce incidence of recurrent epi ingrowth Tisseel/Artiss is well blerated and there were no complications associated with its use Larger randomized studies would be needed to determine safety and efficacy of this technique as compared to primary removal or sutures Reports of ReSure along the graftedge shows it may also be useful Yesilimak, et. al., JRS 2015;31:275 Nd:YAG may be useful for stable long-standing ingrowth destruction Harden, et. al., JCRS 2014, Anderson, et. al., JCRS 2003;29:1425 Ayala, et. al., AIO 2008;145:500