

The larger the ttt zone, the BZ, Flying spot lasers, and Custom LASIK, the larger the ablated corneal tissue is.

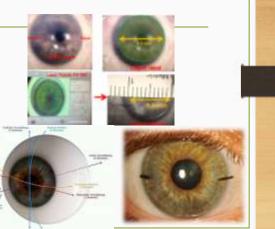
PTA= (FT + AD) / CCT

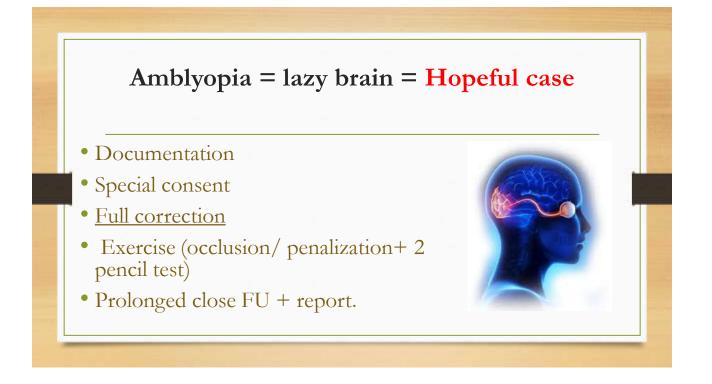
If PTA is > 40%, it is significantly associated with the development of ectasia in eyes with normal preoperative topography.

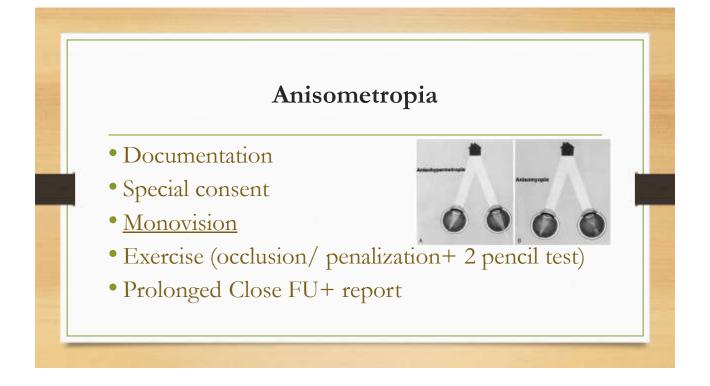
A patient with a large myopic correction, large pupil, and thin cornea ? Advise against laser **Surgery** and suggest an alternative refr. procedure.

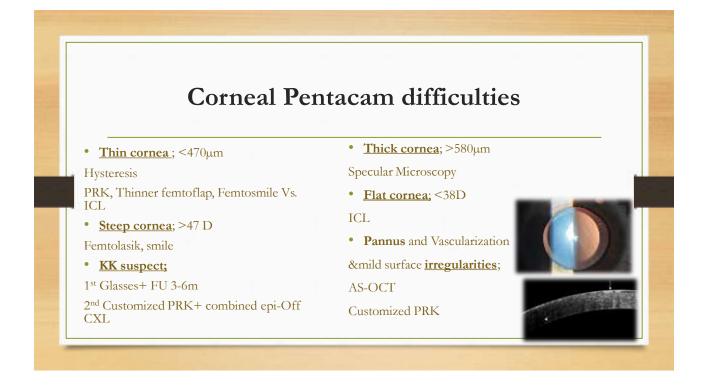


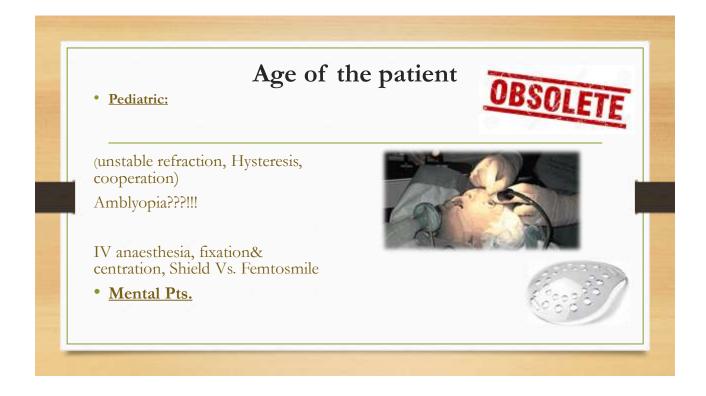
- Myopia> 10-12D; Femtosmile, monovision, Post seg. compications
- **Hyperopia > 4-6D;** Femtolasik, regression, accommodation
- Astigmatism > 3-6D; Femtolasik, axis marking, Cyclotorsion (2<u>5 Hz</u> within a <u>15-degree</u>).











• <u>Older pts;</u>

(Higher order aberrations, associated ocular diseases, lack of accommodation, T3 dry eye,....)

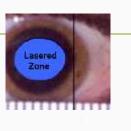
Pt. selection, thorough ophthalm. examination, repeated ref. trials, ...

Customized (Topo Vs. WF guided laser ablation)and full distant correction Vs. Presbyond Vs. Monovision

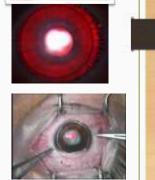
Large pupil, Aniridea, Albinos, Nystagmus

- Large pupil ; (Large Ablation zone& depth, Hyperopia & astigmatism, glare, poor scotopic vision, Tracking system)
- Aniridea, Albinos, Nystagmus; (Pentacam, eye tracking system 1050 (fps), iris registration software, target fixation & centration.)

Low vacuum Vs. IV anaesthesia+ fixation, fast laser Fluence







Dry eye Herpetic keratitis Pseudophakia, PKP OHT, Glaucoma, Filtering surgery. Myopic Chorioretinal deg. RD (Buckle, Vitrectomized , SO filled,....) Neuropathies.



Herpetic keratitis



• Recurrence& reactivation.

Prophylactic topical & systemic, pre- &post-operative antiviral (<u>only</u> <u>a 50% reduction in the risk of recurrence</u>).

- **Contraindications:** corneal anesthesia, vascularization, recent attack
- PRK ????!!!!

Pseudophakia

- Bioptics
- PRK, femtosmile, femtolasik **Vs.** IOL exchange

Penetrating keratoplasty

- Irregular astigmatism, High residual refractive error
- PRK, femtosmile, femtolasik



Ocular HTN & Glaucoma

High suction pressure, post ablation IOP measurement, bleb interfere with suction ring, Steroid induce glaucoma

PRK >> Femtosmile or F. lasik with decreased suction time

Care with post-operative steroids & antiglaucoma drugs

Myopic Chorioretinal degeneration and RD.

- Suction ; retinal tears , MH & Subfoveal hge, PVD & RD
- Late flap dehiscence during argon laser Or RD surgery
- Scleral buckle interferes with suction ring, recurrent RD, Buckle removal induced error.
- Careful examination of the retinal periphery, refractive surgery corrects only the refractive aspect and not the complications of the myopic eye

 \square ICL >> Femtosmile or F. lasik with decreased suction time





Home Message

- A good lasik surgeon knows well when not to operate
- A good lasik surgeon knows how to <u>avoid complication</u> more than how to manage.
- Patient must know well details and **touch** the target of procedure.
- Detailed consent and documentation is a matter
- The target of ordinary lasik surgery is 6/-----happy, but of difficult cases is 6/-----better and safe.

