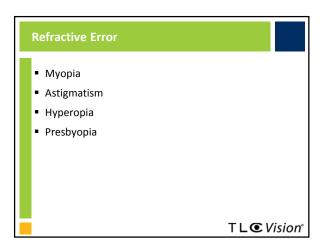
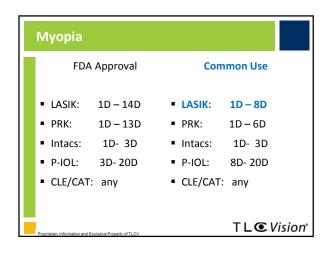
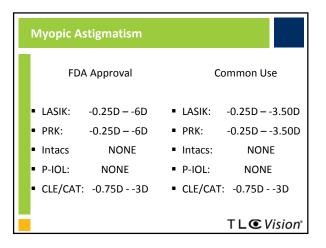
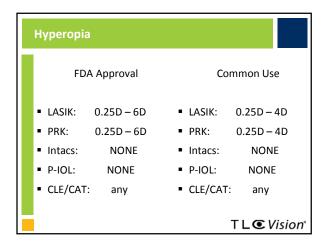


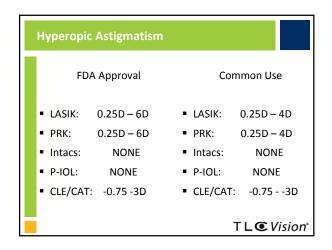
The OD's role in Refractive Surgery Determine the patient's interest Make the patient aware of your ability to co-manage surgery Discuss advancements in the field Outline expectations Presbyopia/monovision Enhancements Risks Make a recommendation Manage post-op care and expectations TL € Vision*

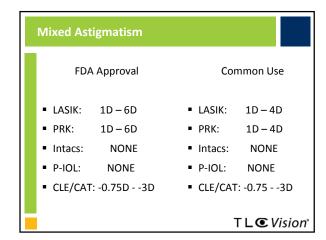








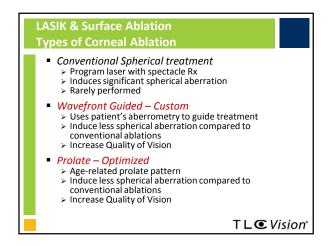






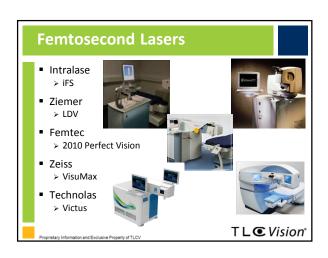








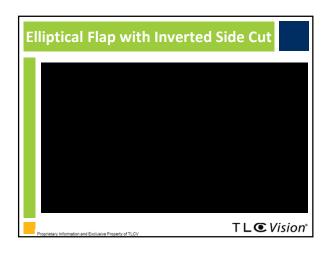


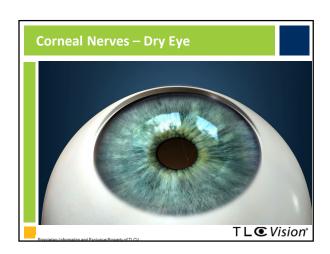


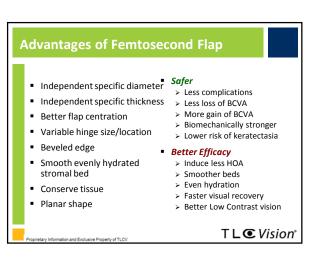


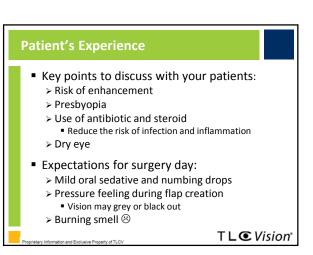




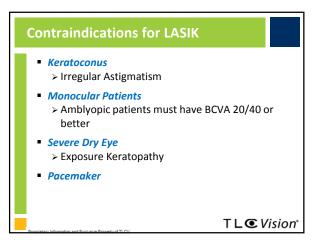


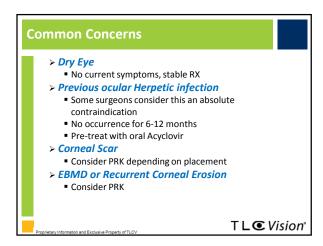


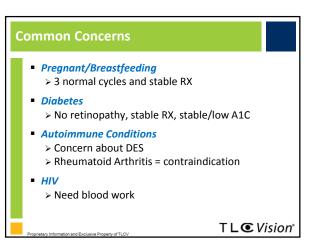


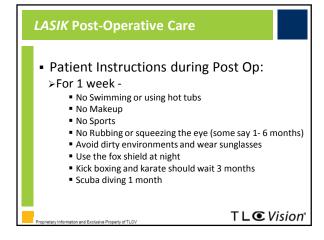


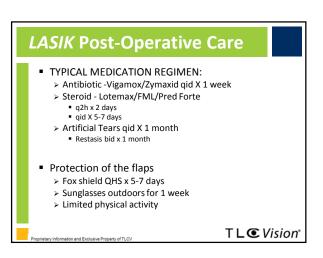
Who is a candidate for Lasik? 18 and older (preferably 20-21+) No eye disease Nearsighted, farsighted, & astigmatism Stable prescription Not seeking correction for primarily near vision Out of Contact lenses- critical for good outcomes 2 weeks for soft lenses One month per decade of wear for hard/RGP Until the cornea and RX are stable











LASIK Post-Operative Care

- POST-OP EXAM SCHEDULE
 - ➤ Day 1
 - ➤ Day 3-5
 - > Months 1, 3, 6*, and 12*
- Enhancements:
 - > Post op schedule the same as a primary procedure

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LASIK Post-Operative Care

Common Early Clinical Findings:

Visual recovery is quite rapid with LASIK – usually-

- 20/25 or better day 1
- VA varies with amount of myopic correction
- VA recovery is slower with Hyperopes
 - Takes one week to get to good VA, one month to get to great VA (similar to PRK)
 - Usually No "wow" effect on the 1 day post op.
- Age, refractive error, and ocular surface conditions will also contribute to the healing rate

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Subconiunctival Hemorrhages



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Patient RS

- 31 year old male
- 3 hours S/P uneventful LASIK OU
- Patient phones office with complaints of discomfort OU

"My right eye became very uncomfortable about an hour after I got home and the vision is much better currently in my left eye."

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What do you tell patient?

- Go back to sleep the eye should feel better in the morning
- 2. Take another vicodin, that should help the pain
- 3. It is normal to have pain after LASIK, just increase the artificial tears until the pain goes away
- 4. RTO now

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LASIK vs. PRK

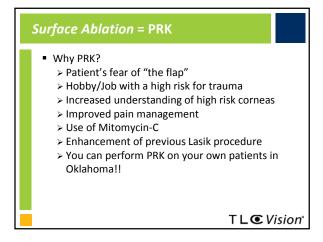
LASII

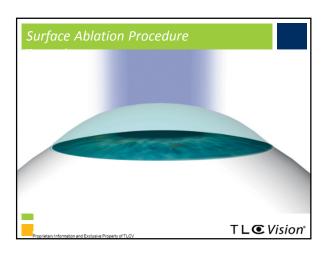
- $\blacktriangleright\,$ Faster recovery, vision functional in a day, great in a week
- Less discomfort (burning/stinging/tearing 2-3 hours)
- ▶ Less post-op meds
- ▶ Fewer post-op visits
- ► Can treat higher Rx*

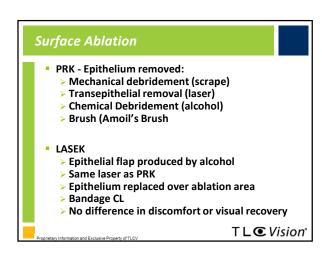
PRK

- Less invasive (no flap)
- ▶ Vision usually functional in a week, great in a month
- ▶ No flap complications
- ▶ Can treat low to moderate Rx

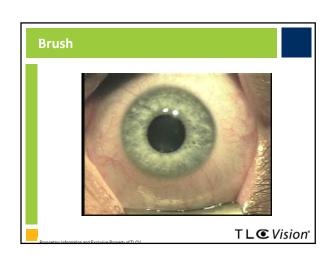
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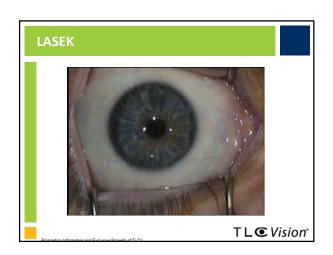




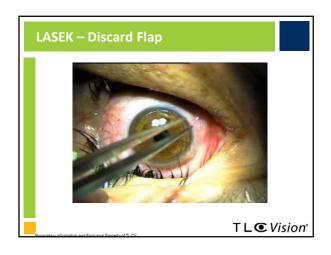








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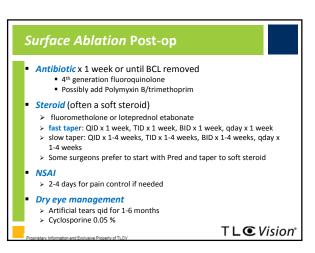




Surface Ablation — Patient Instructions No makeup for 1 week No swimming or hot tubs for 1 week No exercise for 1 week Avoid dirty environments for 1 week You may shower, but avoid rubbing the eye and/or getting water or chemicals in the eye



Surface Ablation Post-Operative Visits > Daily, until the Epithelium is filled in and the contact lens is removed > 1- 2 weeks after epithelium is healed > Months 1, 3, 6, > Enhancement if needed at 6 months or later



Surface Ablation POST-OP REGIMEN

- During Epithelial Healing
 - > Antibiotic & steroid qid until epithelium healed
 - > NSAID 2 days then D/C
 - This may delay epi healing, but makes the eye feel better. It can be used up to 4 days, but try to D/C quickly and if you think the patient is still using it, confiscate the bottle
 - > D/C antibiotic once epithelium is healed
 - > Topical anesthetic drops (only as an escape from pain, potentially can delay healing)
 - > Vitamin C 500mg bid

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Surface Ablation Bandage Contact Lens Remove when epithelium is 100% closed ▶ usually at day 4-5

- If falls out RTO
 ▶ Do NOT let patient re-insert lens
- Let patient know that VA immediately after BCL removal may be worse or no change

T **L €** Vision°

Surface Ablation POST-OP REGIMEN

Steroid

Fast taperSlow Taper

■ 4 x day for 1 week 4 x day for 1 month

■ 3 x day for 1 week 3 x day for 1 month

■ 2 x day for 1 week 2 x day for 1 month

■ 1 x day for 1 week 1 x day for 1 month

Lubricants frequently (PF preferred)

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Surface Ablation Post-Operative Care



- PAIN...
 - Onset of pain as early as 30 60 minutes after leaving the center.
 - Patients should be advised of variability of discomfort level
 - But often day 2 and 3 are worse than day of surgery

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Pain Control

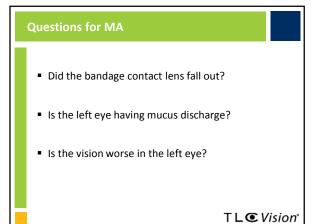
- Cold (Ice packs)
- Topical NSAID
- Topical Anesthetics*
- Bandage Contact Lenses
- Oral Medications
 - ➤ NSAID
 - ➤ Steroids
 - > Narcotics

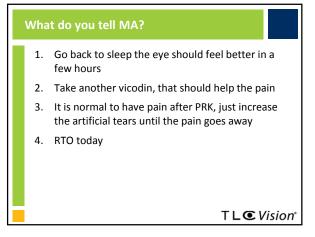
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Patient MA

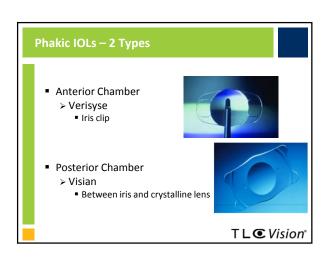
- S/P PRK x 3 day
- I woke up this AM and my left eye hurts A LOT
- No pain last night in either eye
- Feels like a broken contact lens in my left eye
- Vision is blurry in both eyes

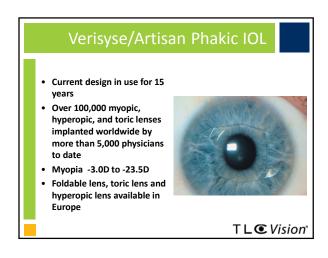
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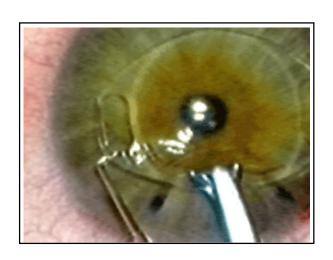


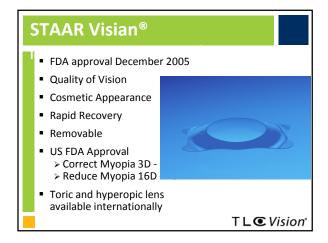


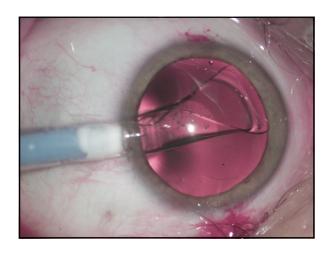


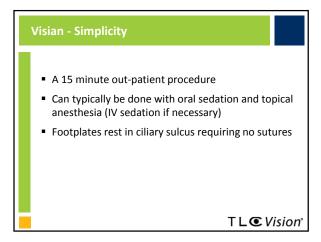


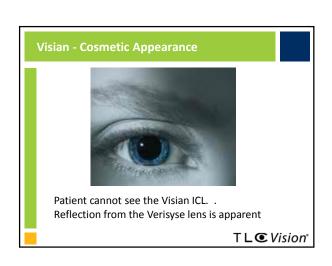




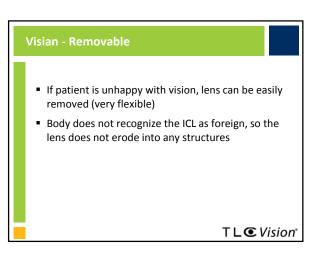


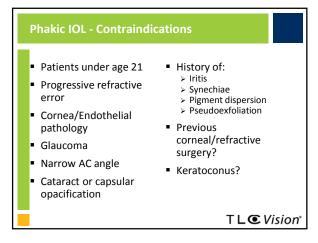




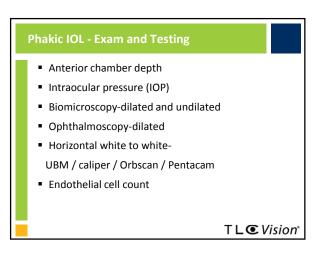


Visian - Rapid Recovery ■ Injector inserted through 2.8 – 3.5mm incision ■ Some pressure felt during surgery ■ No sutures ■ Very little discomfort immediately after surgery ■ Mild FBS and halos for few days ■ Halos improve with time ■ TL© Vision*





Phakic IOL - Exam and Testing ■ Manifest and cycloplegic refraction ■ Unaided and aided visual acuities ■ Keratometry or corneal topography ■ Gonioscopy (grade 2 or greater) ■ Pachymetry-corneal thickness ■ Pupil size in normal and mesopic conditions (6mm or under mesopic) TL© Vision*



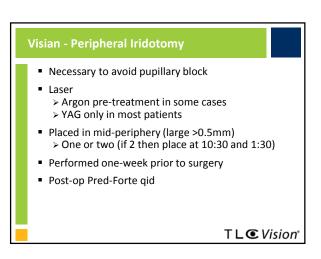
Visian - Working Space = Anterior Chamber

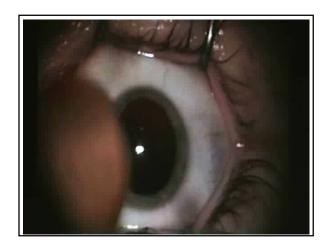
■ Myopes: Mean ACD = 3.8 mm

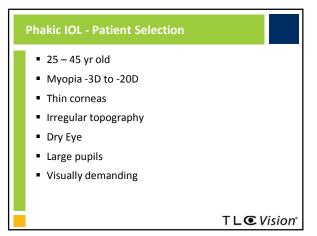
■ Hyperopes: Mean ACD = 3.3 mm*
■ Not yet FDA Approved

Need minimum of 2.8mm to perform safe surgery

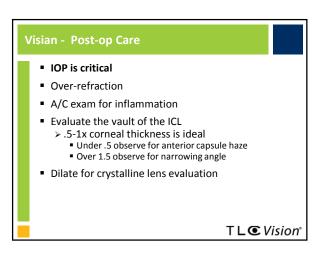
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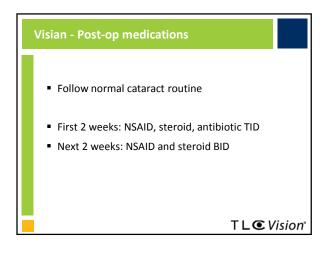


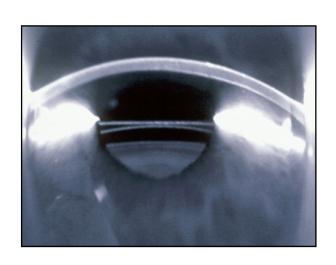




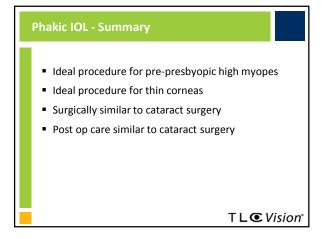
Post-op Day 1, 7 and month 1 &3 ■ Uncorrected Visual acuity ■ Dry Refraction (Day 7 & beyond) ■ Biomicroscopy ■ ICL Vault (Vault .5 to 1.5 ct) ■ PI Patency ■ Inflammation ■ Tonometry ■ Evaluation of crystalline lens ■ DFE at 3 month and annual ■ TL© Vision*

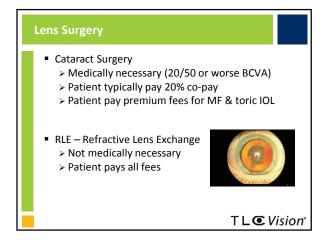














Systemic Health Considerations

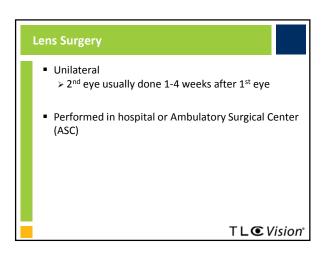
Clearance by PCP required

Full eval including EKG must be within 30 days of procedure

Some surgeons no longer require routine preoperative medical testing

The Value of Routine Preoperative Medical Testing before Cataract Surgery: Oliver D. Schein, M.D., M.P.H., Janne Kalz, Sc.D., Eric B. Bass, M.D., M.P.H., James M. Tielsch, Ph.D., Lisa H. Lubomski, Ph.D., Marc A. Feldman, M.D., M.P.H., Brent G. Petty, M.D., and Earl P. Steinberg, M.D., M.P.P. for the Study of Medical Testing for Cataract Surgery: N Engl J Med 2000; 342:168-175 January 20, 2000

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Cataract Surgery Preparation Contact Lens Removal D/C RGP 1 to ? Months..check stability Helpful to change patient to soft lens if considering referral within 6 months D/C soft lens....1-2 weeks ...surgeon dependent Pre-op Medications Topical NSAID Topical Antibiotic Lid hygiene TL€ Vision*

