**Refractive Surgery Grand Rounds**

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**Pearls:**

VISX Star S4-IR Custom FDA Approvals VISIAN Implantable Contact Lens Approvals

-3 to -15D myopia only -15 to -20 D sph for reduction of myopia

* Up to –11D sph with up to –3D cyl Currently toric ICL not FDA approved in US
  + Maximum –11D SE Need Anterior chamber depth >3.0 mm and
  + Maximum –3.75D via wavescan healthy endothelium
* Up to +3D sph with up to 2D cyl
  + Maximum +3D MRSE
  + Maximum –2.75D cyl via wavescan
* Mixed astigmatism 1D to 5D cyl
  + Maximum –5.75D via wavescan

To Calculate Laser Treatment Depth:

(Add sphere + cylinder) multiply by 15 microns (or 17 microns for larger optical zone)

Example: -1.00-1.00x180 (1+1)x15 = 30 microns

Flap thickness 90-110 microns (Sub-Bowman’s Keratomileusis = thin flap Intralase)

Preoperative Measurements: **Please fax to 781-890-9944 at least 3 days *BEFORE* surgery**

Manifest: Push cylinder to match corneal toricity (look at Ks)

If undercorrected, demonstrate full correction, especially in presbyopic patients, demonstrate near with full distance Rx and or with monovision in trial frame

Consider contact lens trial of monovision to experience in different settings

SLE: Check for corneal scars/depth, DES, stain with Fluorescein and Lissamine Green

***Aggressively*** treat any dry eye, start **RESTASIS** BID

IOP

Eye dominance

Cycloplegic Refraction: If >0.75D difference, recheck manifest

Indicate desired target: plano, myopia, monovision (which eye, how much residual myopia)

DFE: If any retinal pathology, get retina consult/clearance

If features suggestive of glaucoma suspect: >0.50 c/d, asymmetric c/d, notching, elevated IOP

Get baseline visual field and consider nerve fiber analysis (GDX, HRT, or OCT)

**Medication Protocols: Starting 1/2011 write out prescriptions for all medications:**

LASIK

Zymar or Vigamox QID start day **before surgery** (use day of procedure), QID one week post-op

Start 3 days before surgery for high risk MRSA such as health care workers

Consider Sterilid scrubs BID one week before

Prednisolone Acetate 1% (can be generic- use name brand PRED FORTE 1% if treating DLK)

Start after surgery Q2 hours for 2 days, then QID x one week

Preservative free lubrication (wait 20 minutes after medicated drops)

When using QID, can use preserved lubrication

PRK

Vitamin C 500 mg po BID start 2 wks before procedure and continue for 4 months

Zymar QID start day **before surgery** (use day of procedure) until reepithelialized

Start 3 days before surgery for high risk MRSA such as health care workers

Consider Sterilid scrubs BID one week before

Flarex 0.1% or FML 0.1% (generic OK) start after surgery

QID x 3 wks

TID x 3 wks

BID x 3 wks

QD x 3 wks

QoD x 3 wks

Acular LS 0.4% (ketorolac) (generic OK) BID start after surgery x 2 days

Vicodin prn (will get at center)

Preservative free lubrication (wait 20 minutes after medicated drops)

When using QID, can use preserved lubrication

(can put in refrigerator for cool drop relief)

UV protection (sunglasses) critical for first year