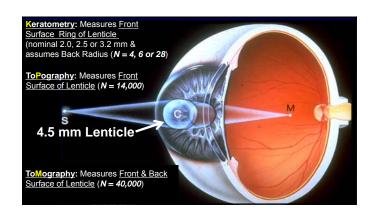


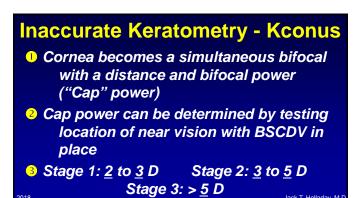


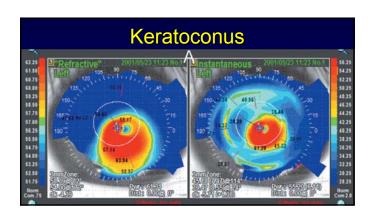
Pitfalls –Kconus & Post Ref • Keratometry is inaccurate after corneal refractive surgery and keratoconus • Prediction of Effective Lens Position (ELP) is inaccurate using keratometry after refractive surgery and keratoconus

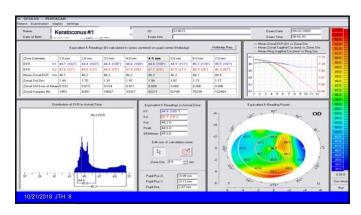
Optical Biometry is inaccurate in long eyes which is extremely common with refractive surgery and keratoconus



Methods for K • Historical Method: Pre K + Δ Ref • Koch K Mod: Current Ring K – 25% Δ Ref • Koch Topo Mod: Curent Zone K – 15% Δ Ref • Contact Lens: CL Base Curve + Δ Ref w RGP • 4.5 mm Zonal K with Topo or Tomo • Manually use mouse centrally PO Ref and around "cap" in Kconus • ASCRS Website



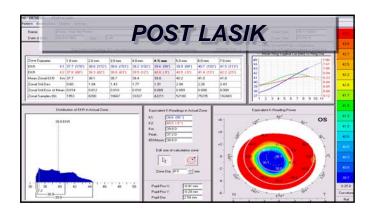




Inaccurate K's - Post Ref

- Ocrnea is flattest in the center and usually no longer prolate
- 2 If centered on pupil it will be asymmetric relative to the visual axis
- 3 Actual pupil size has an effect of power of cornea

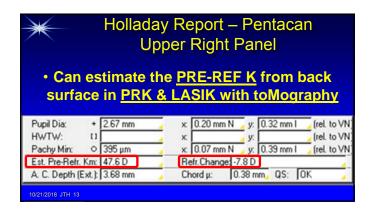
ack T. Holladay,



Pitfalls -Kconus & Post Ref

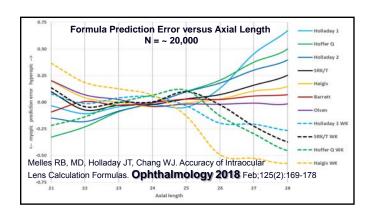
- Keratometry is inaccurate after corneal refractive surgery and keratoconus
- Prediction of Effective Lens Position (ELP) is inaccurate using keratometry after refractive surgery and keratoconus
- Optical Biometry is inaccurate in long eyes which is extremely common with refractive surgery and keratoconus

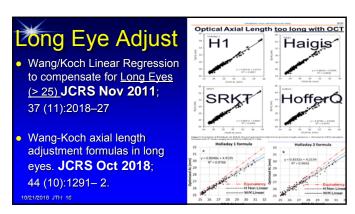
ELP Prediction Most formulas use K to predict ELP K must be prior to refractive surgery (and not "cap" of cone) "Double K Method"



Pitfalls - Kconus & Post Ref

- Keratometry is inaccurate after corneal refractive surgery and keratoconus
- 2 Prediction of Effective Lens Position (ELP) is inaccurate using keratometry after refractive surgery and keratoconus
- Optical Biometry is inaccurate in long
 eyes which is extremely common with
 refractive surgery and keratoconus





Summary Keratometry is inaccurate due to sample size and should be replaced with ZONAL toPography or toMography Effective Lens Position (ELP): "Double K Method" must use normalized corneal power (paracentral Kconus or Pre Ref Sx) Axial Length in long eyes (> 25 mm) must be shortened in ALL but Olsen Formula.

