UNEXPLAINED PROGRESSIVE VISION LOSS AFTER SUCCESSFUL RETINAL DETACHMENT REPAIR

SUSANNA S. PARK, MD PHD
PROFESSOR OF OPHTHALMOLOGY
UNIVERSITY OF CALIFORNIA DAVIS EYE CENTER
FINANCIAL DISCLOSURE

• Allergan: contracted research via employer
• Roche/Novartis: contracted research via employer
SUMMARY

• A case of unexplained progressive vision loss and central scotoma after successful repair of macula-on retinal detachment using scleral buckle, PPV and oil
CASE PRESENTATION

• 51-year-old man presented for urgent evaluation for new flashes & floaters and shadow OD x 1 day

• Past Ocular History:
  • s/p CE/IOL OD: possible traumatic cataract
  • Retinal tear OD s/p laser 2 months earlier
  • Macula-on RD OD s/p PPV, EL, SF6 1 month earlier

• Exam: BCVA 20/20 OD

• Fundus Exam: Nasal laser scars with RD extending inferiorly sparing macula
URGENT SURGERY: SB, PPV, EL, OIL OD

- New Retinal breaks noted nasally and inferiorly
- Silicone oil tamponade requested by patient given his active lifestyle
  - Martial artist
- 6 weeks postop: VA 20/50 pinhole 20/40
  - Attached retina under oil
- 3 months postop: noted new dark spot in central vision after restarting martial arts
  - VA 20/150 pinhole 20/100; retina attached; unremarkable OCT
- 6 months postop: increased dark central spot
  - VA CF at 2 ft; retina attached
3 months postop: 20/150

6 months postop: CF
INCIDENCE, RISK FACTORS, AND CLINICAL CHARACTERISTICS OF UNEXPLAINED VISUAL LOSS AFTER INTRAOCULAR SILICONE OIL FOR MACULA-ON RETINAL DETACHMENT (Scheerlink et al. Retina, 2016)

- Retrospective study: unexplained vision loss 2 months after PPV
- Incidence: 29.7% after oil vs 0.7% with gas
- Vision loss after PPV, 2000csi Silicone Oil or Oil removal
  - Mean BCVA 20/200 (Range: 20/63 to 2/200)
- Microperimetry: Small Central Scotoma; mfERG: abnormal
- OCT: unremarkable except for macular ganglion cell layer thinning
THANK YOU!!