

# **Conference roundup**

Our Eye 360 Annual Optometry Conference featured a range of clinically relevant presentations from a number of our Victorian doctors as well as two presentations from our guest speaker, Professor Minas Coroneo. Below we outline the key take-home messages from the conference.

## **Prof Minas Coroneo**

# Pterygium surgery, Ocular Surface Squamous Neoplasia (OSSN) management and advanced cataract surgery techniques

- In pterygium surgery, auto-conjunctival grafting is considered the gold standard
- Pterygia are associated with OSSN, endothelial cell loss and skin malignancy
- OSSN management is shifting from surgical to medical, including the use of topical interferon in initial treatment
- Main risk factor for IOL subluxation/dislocation post-cataract surgery is the presence of pseudoexfoliation syndrome

### Invention in ophthalmology

- IOL-associated dysphotopsia is caused by light refracting to the retina instead of the ciliary body
- Topical brimonidine can be used to treat dysphotopsia following cataract surgery



## Dr Uday Bhatt

### Five corneal challenges in cataract surgery

 Unhealthy ocular surface
 Consider underlying issue and postpone measurements until treated

### Previous refractive surgery

 Can cause error in corneal power and skew effective lens position prediction

### Forme fruste keratoconus

- Check for signs of progression and consider CXL
- For IOL calculations, stop contact lens use, repeat A-scans and use manifest refraction

### Endothelial disease

- Patient <40, deep AC (>3 mm) and clear lens
- Cataract surgery before DSEK: aim for -1.00 to -1.25, use dispersive viscoelastic and consider FLACS
- Patient must be on board and choose a surgeon with corneal expertise

#### Herpes infection

- Suspect when VA is disproportionate to amount and type of cataract
- Perioperative care includes oral antivirals, topical antivirals and steroids



# Dr Alex Ioannidis

### Demystifying dysphotopsia – a practical approach

- Take a very detailed history
  - Exclude other causes of visual phenomena
  - Exclude any retinal disease (fundus exam)
- Reassure the patient in most cases it settles
- Explain the adaptive response to the new IOL
- You cannot map 'shadows' on the Humphrey/Goldmann
- Early-stage options are sunglasses/broad-brimmed hats
- Consider least invasive options first (e.g. miotics)
- Consider reverse optic capture
- Final option is IOL exchange with different lens design/ piggyback IOL/sulcus placement



# **Dr Lewis Levitz**

### Bumps you SHOULD avoid

- Beware of a non-resolving chalazion
- Beware of any painless, chronic,
- ulcerating lesion
- Beware of any bright yellow, vascularised conjunctival mass
- Beware of any lump that looks like 'salmon flesh' in an elderly person
- If it doesn't behave like a chalazion, it's not a chalazion
  Benign, yellow orbital lumps are not an emergency (usually fat or
- lacrimal gland prolapse) monitor and refer if enlarging
   Refer lacrimal fossa tenderness or lesions to exclude a mass



# Dr Nima Pakrou

### Clinical OCT cases

- Dense structures reflect/scatter incident light and are brighter
- Retinal pigment epithelium and Bruch's membrane are bright structures
- Haemorrhages appear brighter
- Dense structures shadow structures below them (e.g. choroidal nevus)
- Fluid or empty space is 'dark space' as there is no signal scatter
- ELM external limiting membrane
- IS/OS (ellipsoid zone) 'photoreceptor integrity line'
- Attenuation, discontinuity or disruption of these reported to correspond to photoreceptor dysfunction/damage, which carries poorer prognosis



### visioneyeinstitute.com.au





# Dr Christolyn Raj

### Seeing spots... should I be worried?

- **Light spots**: pattern recognition, recognise the retinal layer involved
- Dark spots: often longstanding, well circumscribed (often inactive, can change over time, darker/deeper/extensive)
- Refer if any other associated pathology co-exists
- S: Confirm the SPOT
- S: Confirm the SPU
   P: Look for a PATTE
- P: Look for a PATTERN
- **0:** Is it involving the **OUTER** retina?
- T: Determine the TIMEFRAME acute or chronic?



### Dr Joe Reich Dispelling myths

- Spectacle use causes vision to deteriorate (MYTH)
  Myopia is caused by reading/screen use (MYTH),
- lack of sunshine (FACT)

   Rubbing a stye with a gold ring cures it (MYTH)
- Raw steak cures a black eye (MYTH)
- Pirates wore a patch to have one dark-adapted eye to see during combat below deck (MYTH)
- The US Federal Aviation Authority recommends pilots close one eye when using a cabin light to preserve some degree of night vision (FACT)
- Eating carrots improves your night vision (MYTH)
- The AREDS 1 and 2 studies recommended supplements to prevent ARMD when there is a family history (MYTH)
- Many antioxidants are marketed for eye health (MYTH)
- Aspirin increases the risk of a macular haemorrhage (MYTH)



## Prof Rasik Vajpayee

### One deed for two needs

### Special considerations for cataract surgery:

- Super hard cataract
- White cataract
- Posterior polar cataract

.

- Small pupil
- Subluxated lens
- Co-existing corneal pathology (e.g. corneal opacity)
  - Anterior partial thickness: PTK/ALTK/DALK + phaco
  - Posterior partial thickness: DSAEK triple procedure
  - Full thickness (partial): OI/CRAK + phaco
  - Full thickness (total): PK triple procedure



### Dr Aaron Yeung

### Diabetic retinopathy... an update 2017

- Leading cause of vision loss in 20–74 year olds
- In 2010, 285 million diabetics worldwide 1/3 had DR and 1/3 of this DR was vision-threatening (severe NPDR/PDR/DMO)
- Most common cause of vision loss: PDR for T1DM, DMO for T2DM
- Prevention: cholesterol and blood pressure management, stop smoking
- Diagnosis/monitoring: OCT (quick, non-invasive), FFA (identify ischaemia)
- **Treatment**: shift from laser to injections, laser still has its uses



### visioneyeinstitute.com.au