

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



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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

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- 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



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