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Dear fellow ophthalmologists, colleagues, and friends,

After a few years of planning and preparation, I am delighted to welcome you to Singapore for the 32nd APAO Congress.

We have themed this congress “Discovery, Innovation and Practices” with an aim for the 5-day APAO 2017 congress to showcase the bests in ophthalmology that are new, innovative, high-impact and cutting-edge in every aspect of treatment for major eye diseases, imaging, and surgical techniques, supported by clinical experience and trials for evidence-based practices for Asian eye diseases.

My colleagues in the Scientific Program Committee led by Prof Tin Aung have put together 184 scientific sessions/symposiums and more than 1,400 abstracts submitted for free papers, instruction courses, posters, e-posters, and video presentations. I am grateful and delighted that more than 550 world-renowned speakers and leaders in ophthalmology are at the congress to share their skills, knowledge, and experiences and interact with the delegates.

This leaves me to express my heartfelt appreciation to the APAO 2017 Steering Committee, the Scientific Program Committee, and the Congress Organizing Committee and staff for their unwavering commitment in bringing the latest and the best in ophthalmology to the event.

Finally, the congress would not be possible without the generous support and contributions of our corporate sponsors and collaborators from the public and private sectors.

Even as we have put together a program to quench our thirst for new knowledge and skills, we have not neglected the social aspects of the congress. Delegates will be spoiled for choice in terms of leisure, culinary, and cultural pursuits in Singapore. We do look forward to you participating in the official social functions.

My colleagues and I look forward to meeting you at the congress venue and at various functions and social gatherings. This will be priceless!

Yours sincerely,

Tien-Yin WONG, MD, PhD
Congress President, APAO 2017
President, College of Ophthalmologists, Singapore
Dear friends and colleagues,

On behalf of the Scientific Program Committee of the 32\textsuperscript{nd} APAO Congress, it is my honor and pleasure to welcome you to Singapore.

The 32\textsuperscript{nd} APAO Congress is fortunate to have two local co-hosts, the Singapore Society of Ophthalmology and the College of Ophthalmologists, Singapore, along with our co-sponsor, the International Council of Ophthalmology. Furthermore, the Scientific Program Committee is pleased to welcome more than 550 internationally recognized speakers presenting the latest discoveries, innovations, and practices in all the major ophthalmic subspecialties. We also have more than 1,400 scientific abstracts submitted from 41 countries. I hope that this rich scientific program will allow everyone to gain new knowledge that will be helpful for your practice back home.

With this comprehensive program and a social program enriched by Singapore’s unique blend of cultures, the 32\textsuperscript{nd} APAO Congress provides delegates with excellent opportunities to network and collaborate. With so many delegates from all around the world, I hope that you will make many new friends and establish collaborations for the future.

Finally, I hope you get the chance to visit some of the many attractions in Singapore, sample our world famous cuisine, and have a memorable stay in the Lion City.

Sincerely,

Tin AUNG, MD, PhD
Chair, APAO 2017 Scientific Program Committee
WELCOME MESSAGE
From President, Asia-Pacific Academy of Ophthalmology

Dear friends and colleagues,

It is with immense pleasure that I welcome you to the 32nd APAO Congress, co-hosted with the Singapore Society of Ophthalmology and College of Ophthalmologists, Academy of Medicine Singapore, in the dynamic city of Singapore.

Co-organized with the International Council of Ophthalmology, the congress promises to combine the best of ophthalmic expertise from both the East and West. With a great number of leading experts from around the globe speaking at this most important ophthalmology meeting in the Asia-Pacific region and beyond, you can expect to not only gain insight on the latest scientific innovations, surgical techniques, and treatments, but also to meet like-minded peers and establish lifelong friendships.

I must extend my heartfelt thanks to Prof Tien-Yin Wong, Congress President, and his team for their committed and tireless efforts in organizing such an unforgettable meeting. I think it would be great for you to take this opportunity to network and collaborate, and at the same time, to take advantage of all that Singapore has to offer. With its diverse cultural background and vibrant lifestyle, it is certainly a city for making wonderful memories.

I look forward to seeing you soon in Singapore.

With best regards,

Dennis Lam, MD
President, Asia-Pacific Academy of Ophthalmology
WELCOME MESSAGE
From Secretary-General, Asia-Pacific Academy of Ophthalmology

Dear friends and colleagues,

It is both my pleasure and honor to welcome you to the 32nd Asia-Pacific Academy of Ophthalmology (APAO) Congress in Singapore, co-hosted with the Singapore Society of Ophthalmology and College of Ophthalmologists, Academy of Medicine Singapore, and co-organized with the International Council of Ophthalmology.

On behalf of APAO and our Member Societies, I would like to express our heartfelt thanks to Prof Tien-Yin Wong, our APAO 2017 Congress President, for bringing us this wonderful and outstanding meeting. At the time of writing, we already have more than 4,300 registered delegates from over 76 countries. I would also like to convey our deepest gratitude to Prof Tin Aung, our APAO 2017 Scientific Program Committee Chair, for his unwavering commitment, without which we would not be able to put together such an exceptionally educational and enjoyable scientific program, with more than 550 distinguished ophthalmologists and visual scientists from over 48 countries participating in the invited programs and nearly a thousand presentations in the submitted programs of this Congress.

Above all, we are truly grateful to all of you who have chosen to join us here in Singapore for the 32nd APAO Congress. It is indeed your participation that has made all the preparatory efforts for this congress worthwhile.

I very much hope you will enjoy this congress, as well as all that Singapore has to offer, before we all come together again for the 33rd APAO Congress in Hong Kong in 2018.

Warmest personal regards,

Clement C Tham, BM BCh
Secretary-General & CEO, Asia-Pacific Academy of Ophthalmology
WELCOME MESSAGE
From President, Singapore Society of Ophthalmology and President, College of Ophthalmologists, Singapore

Dear Friends and Colleagues

Welcome to Singapore!

We are delighted to warmly host you during the 32nd APAO Congress, which is held in conjunction with the 32nd Singapore-Malaysia Joint Meeting in Ophthalmology. Organized jointly by the College of Ophthalmologists and the Singapore Society of Ophthalmology, and with the co-sponsorship of the International Council of Ophthalmology (ICO), this 4-day APAO meeting is now a “must go conference.”

We are honoured to have more than 550 world-renowned specialists in ophthalmology and visual sciences from the region and beyond sharing their expertise on new treatments for major eye diseases, novel imaging and surgical techniques, and results of pivotal clinical trials.

In addition to the plethora of excellent scientific symposia, teaching courses, live surgery and free paper sessions, we have also lined up several lively and exciting events to make APAO 2017 uniquely memorable, such as:

• APAO 2017 Charity Run. For a magnificent view of Singapore’s iconic Marina Bay, come join our early morning APAO Charity Run on Saturday, March 4, 2017, and support charitable causes that resonate with our ophthalmic mission. The “Eye (I) Run for Sight,” flag-off at Suntec Center, is a scenic 3.8 km route round the Marina Bay.

• Young Ophthalmologists Night. Young ophthalmologists will also get the exciting opportunity to mingle and network with fellow colleagues over Futsal friendly and revel in delectable food and drinks at the Young Ophthalmologists Night.

We hope that you will have a wonderful experience at APAO 2017. Do take time to see the colourful sights of sunny Singapore, a melting pot of many cultures. Enjoy!

Tien-Yin WONG, MD, PhD
President
College of Ophthalmologists,
Singapore

Shu-Yen LEE
President
Singapore Society of Ophthalmology
Dear friends and colleagues,

It is a great pleasure as the President of the International Council of Ophthalmology to welcome you to the 32nd APAO Congress in Singapore. I am proud to bring you greetings from more than 200,000 ophthalmologists from around the world.

The need for eye care grows as the population grows and ages. The Asia-Pacific region has over half of those people who are blind or have vision loss but less than a quarter of the world’s ophthalmologists. The APAO Congress forms the perfect opportunity for us to hear the latest advances in treatment and how we can provide better eye care to our communities and our region. Effectively coordinated and ophthalmic-led teams help reach those in need. Future generations of ophthalmologists need to be well trained to meet these challenges and the ICO-sponsored education programs during this congress will provide guidance.

I know the organizers of the APAO Congress have worked hard to prepare a wonderful scientific program and an outstanding cultural and social program. I am sure you will all be very well looked after and meet many old friends and also make many new acquaintances.

My best wishes for a great congress,

Hugh R. Taylor, MD
President, International Council of Ophthalmology
The Asia-Pacific Academy of Ophthalmology (APAO) is a supranational organization that welcomes participation from national, territorial, and subspecialty-based ophthalmic societies in the Asia-Pacific region.

Being the major driving force of ophthalmic development in the Asia-Pacific region, the APAO seeks to promote the science and art of ophthalmology in the Asia-Pacific region, eliminate preventable blindness through teaching, research and service, foster cooperation between various ophthalmological societies in different countries, and encourage collaboration with other international and regional ophthalmological organizations.

Accordingly, the APAO organizes an annual congress, co-organizes scientific meetings and conferences, publishes the Asia-Pacific Journal of Ophthalmology, recognizes ophthalmologists’ achievements in research, education and blindness prevention, runs a leadership development program and an international fellowship program, offers training and learning opportunities to young ophthalmologists, and provides an online platform on which ophthalmologists from different parts of the world can interact and consult with one another.

APAO Secretariat
Asia-Pacific Academy of Ophthalmology
4/F, Hong Kong Eye Hospital
147K Argyle Street
Kowloon, Hong Kong
Phone: (852) 3943-5827
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Email: secretariat@apaophth.org
Website: www.apaophth.org
The Singapore Society of Ophthalmology was established in 1963 and serves as a platform for the local ophthalmology fraternity to interact and socialize. It currently has a total membership base of 219 ophthalmologists. Aside from hosting the biennial Singapore-Malaysia Joint Meeting in Ophthalmology where ophthalmologists and trainees from both Singapore and Malaysia gather together to acquire the latest updates and techniques in ophthalmology, the Society also organizes continuing medical education (CME) talks with pharmaceutical companies, community eye care, and mission trips to developing countries.

In 2011, the Society organized its very first Residents and Young Ophthalmologists Night to promote interaction and collaboration among residents in training from the various training institutions in Singapore.

The year 2012 marked a significant milestone for the Society when it co-organized the 28th Singapore-Malaysia Joint Meeting in Ophthalmology in conjunction with the XIX International Neuro-Ophthalmology Society (INOS) Meeting in Singapore, the first time that INOS was held in Southeast Asia. More than 600 delegates and speakers from the region and beyond attended the 4-day meeting.

A charity subcommittee was formed in 2012 to increase and assist volunteerism of members undertaking blindness programs in Singapore and overseas. The Society also co-organized the 14th National Eye Care Day, an annual free eye screening event, together with Singapore National Eye Centre and eye departments of other hospitals in Singapore in November 2013.

To further its outreach to the needy elderly community, the Society partnered with Standard Chartered Bank to organize quarterly mobile eye screenings for a 2-year period, and the first screening was held in January 2014. The main aim is to bring eye care to needy members of the community who have fallen through the cracks of the local healthcare system or who are unable to access to healthcare due to physical or logistical barriers. To date, the Society has conducted 7 successful mobile eye clinics, screening over 800 elderly with visual impairment.
College of Ophthalmologists, Singapore (COPH)

The College of Ophthalmologists was inaugurated under the Academy of Medicine, Singapore in January 2009.

Prior to this, the Chapter of Ophthalmologists had subsisted under the purview of the College of Surgeons, Singapore. Inspired by the steady growth in the Chapter’s membership and the objective to enhance the development of the specialty as well as having a stronger presence to advocate for the future of ophthalmology, members of the Chapter unanimously supported the proposal to transform the Chapter to a College to better serve the community, all ophthalmologists, and trainees.

Motto
• For Light and Sight

Mission
• Advance the art and science of ophthalmic medicine
• Advocate the future of ophthalmology

Objective
• To promote and uphold the professionalism and professional competence of ophthalmologists in Singapore;
• To provide, facilitate, and enhance postgraduate education, professional development, and continuing medical education (CME) of the specialty;
• To advocate for excellence of practice, standards, and education.

Since its humble beginning, the College administers the National CME Programme with the support and participation of Changi General Hospital, Khoo Teck Puat Hospital, National Health Group Eye Institute, National University Hospital, National University of Singapore, Singapore National Eye Centre, and Tan Tock Seng Hospital and private ophthalmologists. CME sessions are conducted every Wednesday afternoon, comprising Basic Surgical Trainees (BSTs)/Advanced Surgical Trainees (ASTs) teachings and combined CME lectures for all ophthalmologists and trainees.

In 2016, the College formed subspecialty workgroups to advise and assist the College in matters pertaining to practice guidelines, standards of care, provision of professional opinions, continuing medical education, and other collaborative activities which the College may take part in from time to time.
Email: info@icoph.org  
Website: www.icoph.org  
WOC2018 Congress Website: www.icoph.org/WOC2018

Dating back to the first International Congress of Ophthalmology in 1857, the International Council of Ophthalmology (ICO) is a federation of ophthalmologic societies worldwide, with 105 national societies of ophthalmologists and 44 international subspecialty societies and related organizations as Members.

The mission of the ICO is:

To work with ophthalmologic societies and others to improve access to high quality eye care, in order to preserve, restore and enhance vision for the people of the world.

The ICO has three primary commitments:

- Enhancing Education
- Empowering Societies
- Advancing Eye Health.

Among its best known programs are Exams (more than 53,000 taken in 80 countries since 1995), Fellowships for ophthalmologists from low and middle resource countries (900 awarded since 2001) and a global Teaching the Teachers initiative.

The ICO organizes the World Ophthalmology Congress®, with WOC2018 scheduled June 16-19, 2018 in Barcelona and WOC2020 on June 26-29, 2020 in Cape Town, South Africa. The WOC is the premier and largest international ophthalmic congress, with over 15,000 delegates expected to attend from over 130 countries next year. The WOC provides an international audience of ophthalmologists with a scientific program of over 350 sessions addressing all subspecialties and related interests in ophthalmology.

Come visit us at booth H39 to learn more.
## ORGANIZING COMMITTEE

### Congress President / Chair
Tien-Yin WONG

### Chair of Congress Standing Committee
Clement C THAM

### Vice-Chairs
- Wee Jin HENG
- Shu-Yen LEE

### Chair of Scientific Program
Tin AUNG

### Members
- Adrian KOH
- Tock Han LIM
- Clement TAN
- Charity WAI
- Hon Tym WONG
- Ian YEO

### APAO Congress 2017 Local Secretariat
- Junia HENG
- Amy LIM Pui-Pui
- Michelle QUEK
## SCIENTIFIC PROGRAM COMMITTEE

<table>
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<tr>
<th>Subspecialty</th>
<th>Convener</th>
<th>Asia-Pacific/International Coordinator</th>
<th>Host Coordinator</th>
<th>Secretary</th>
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<tr>
<td>Cataract</td>
<td>David CHANG (US)</td>
<td>Amar AGARWAL (India)</td>
<td>Soon-Phaik CHEE (Singapore)</td>
<td>Marie-Jose TASSIGNON (Belgium)</td>
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<td>Cornea, External Eye Diseases and Eye Banking</td>
<td>Charles MCGHEE (New Zealand)</td>
<td>Shigeru KINOSHITA (Japan)</td>
<td>Donald TAN (Singapore)</td>
<td>Alvin YOUNG (Hong Kong)</td>
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<td>Glaucoma</td>
<td>Robert RITCH (US)</td>
<td>Makoto ARAIE (Japan)</td>
<td>Tanuj DADA (India)</td>
<td>Prin ROJANAPONGPUN (Thailand)</td>
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<td><strong>Intraocular Inflammation, Uveitis &amp; Scleritis</strong></td>
<td>Narsing RAO (US)            Uwe PLEYER (Germany) Justine SMITH (Australia) Peizeng YANG (China) Stephen TEOH (Singapore) Timothy LAI (Hong Kong)</td>
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<td><strong>Neuro-Ophthalmology</strong></td>
<td>Tony ARNOLD (US)            Dan MILEA (Singapore) Prem SUBRAMANIAN (US) An-Guor WANG (Chinese Taipei) Clement TAN (Singapore) Carmen CHAN (Hong Kong)</td>
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<td><strong>Ocular Imaging</strong></td>
<td>Neeru GUPTA (Canada)        Ki Ho PARK (Korea) Dipika PATEL (New Zealand) Leopold SCHMETTERER (Austria) Gemmy CHEUNG (Singapore) Christopher LEUNG (Hong Kong)</td>
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<td><strong>Ocular Oncology &amp; Pathology</strong></td>
<td>Tero KIVELA (Finland)       Patrick DE POTTER (Belgium) Deepak EDWARD (Saudi Arabia/US) Martine JAGER (Netherlands) Anita CHAN (Singapore) Hunter YUEN (Hong Kong)</td>
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<td><strong>Ophthalmic Education</strong></td>
<td>Rajvardhan AZAD (India)     Andrzej Grzybowski (Poland) Wai Ching Lam (Hong Kong) N/A N/A</td>
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<td>Ophthalmic Epidemiology</td>
<td>Paul FOSTER (UK) David FRIEDMAN (US) Jost JONAS (Germany) Seang-Mei SAW (Singapore) Ching Yu CHENG (Singapore) Ronnie George (India)</td>
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<td>Orbital and Oculoplastic Surgery</td>
<td>Xian-Qun FAN (CHINA) Jae-Woo JANG (Korea) Shu-Lang LIAO (Chinese Taipei) Timothy SULLIVAN (Australia) Chee Chew YIP (Singapore) Sunny SHEN (Singapore)</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>Frank MARTIN (Australia) Craig DONALDSON (Australia) Sonal FARZAVANDI (Singapore) Kanwal NISCHAL (US) Inez WONG (Singapore) Jason YAM (Hong Kong)</td>
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<td>Prevention of Blindness</td>
<td>Mingguang HE (Australia) Ivo KOCUR (Switzerland) Ravi D. RAVINDRAN (India) Ningli WANG (China) Ecosse LAMOUREUX (Singapore) Yuanbo LIANG (China)</td>
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<td>Refractive Surgery</td>
<td>Jorge ALIO (Spain) Sri GANESH (India) Ronald KRUEGER (US) Gerard SUTTON (Australia) Wee Jin HENG (Singapore) Mohamed ROSMAN (Singapore)</td>
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<td>Retina (Medical)</td>
<td>Jennifer KANG-MIELER (US) Taraprasad DAS (India) Chi-Chun LAI (Chinese Taipei) Won-Ki LEE (Korea) Adrian KOH (Singapore) Colin TAN (Singapore)</td>
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### Retina (Surgical)

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<tr>
<td>Suber HUANG</td>
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<td>Pramod BHENDE</td>
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<td>R.V. Paul CHAN</td>
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<td>Andrew CHANG</td>
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<td>Caroline CHEE</td>
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<td>Gavin TAN</td>
<td>Singapore</td>
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### Visual Sciences

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<td>Calvin PANG</td>
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<td>Periasamy SUNDARESAN</td>
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## ABSTRACT REVIEWING COMMITTEE

**Chair:**
Tin AUNG (Singapore)

**Members:**

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<th>Members</th>
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<tr>
<td>Amar AGARWAL</td>
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Gangadhara SUNDAR (Singapore)
Sjakon TAHJA (Indonesia)
Anna TAN (Singapore)
Colin TAN (Singapore)
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<th>Mar 3 (Fri) Day 2</th>
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<tr>
<td>06:00-06:30</td>
<td>APAO Standing Committee Meetings (09:00-12:30)</td>
<td>Breakfast Symposia (S)* (08:00-08:45)</td>
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*Breakfast Symposium: 45 minutes; S=Sponsored Programs with no CME points
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<th>Mar 5 (Sun) Day 4</th>
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<tr>
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*Breakfast Symposium: 45 minutes; S=Sponsored Programs with no CME points
## SCIENTIFIC SESSIONS

SYM = Symposium  
FP = Free Paper  
IC = Instruction Course  
VS = Video Symposium  
SubDay = Subspecialty Day  
CC = Challenging Cases  
WS = Workshop

### Day 0 - Mar 1, 2017 (Wednesday)

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<td>14:30-16:00</td>
<td>301</td>
<td>Ophthalmic Education</td>
<td>SYM</td>
<td>The ICO Exams and Fellowships Symposium</td>
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<td>SYM</td>
<td>Improving Eye Workforce Challenges Through Harmonized Allied Ophthalmic Personnel Training</td>
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<td>16:30-18:00</td>
<td>301</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
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<td>Pediatric Anterior Segment Disorders</td>
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<td>Refractive Surgery</td>
<td>FP</td>
<td>Rapid Fire Refractive Surgery and Comprehensive Ophthalmology Update Session</td>
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### Day 1 - Mar 2, 2017 (Thursday)

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<tr>
<td>09:00-10:30</td>
<td>Hall 405BX</td>
<td>Cataract</td>
<td>SubDay</td>
<td>Endophthalmitis Prevention Around the World</td>
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<tr>
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<td>Hall 405E</td>
<td>Glaucoma</td>
<td>SubDay</td>
<td>Future Medical Therapy</td>
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<td>Hall 404A</td>
<td>Retina (Medical)</td>
<td>SYM</td>
<td>AMD and PCV</td>
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<td>Nicoll 3</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>Common Problems in Pediatric Ophthalmology</td>
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<td>Nicoll 2</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>Refractive Surgery for Keratoconus: From Intrastromal Segments to Lens and Wavefront Excimer Laser Surgery</td>
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<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Penetrating Keratoplasty, Lamellar Keratoplasty, and Anterior Segment Reconstruction</td>
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<td>328+329</td>
<td>Retina (Surgical)</td>
<td>SYM</td>
<td>Surgical Technique: Tips and Tricks</td>
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<td>310</td>
<td>Visual Sciences</td>
<td>SYM</td>
<td>APSEG Symposium: Personalized Medicine and Big Data</td>
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<tr>
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<td>309</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>SYM</td>
<td>Orbital Surgery: A New Age with Cutting Edge Techniques</td>
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<tr>
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<td>308</td>
<td>Ocular Oncology &amp; Pathology</td>
<td>SYM</td>
<td>APSOOP Symposium: Retinoblastoma and Other Childhood Tumors</td>
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Day 1 - Mar 2, 2017 (Thursday) (Cont)

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<td>Refractive Surgery</td>
<td>IC</td>
<td>Management of Posteriorly Dislocated Lens and Secondary Intraocular Lens Implantation and Fixation in Aphakia</td>
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<td>Ophthalmic Education</td>
<td>SYM</td>
<td>ICO Education Forum: Student, Faculty, and Program Evaluation</td>
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<td>APAO Leadership Development Program 2017-18 Orientation Class 1: Introduction to the APAO LDP</td>
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<td>Cataract</td>
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<td>Posterior Capsular Rupture: A Video-Based Course</td>
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<td>Clinical Decision-Making with Cataract Complications—Video Case Studies: “You Make the Call”</td>
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<td>Genetics-Molecular Biology</td>
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<td>Diabetic Retinopathy and DME</td>
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<td>AAPPO Symposium: An Introduction for Busy Clinicians and Those in Early Career Stages on How to Become Involved In, and Understand, Research in Ophthalmology and Visual Sciences</td>
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<td>Correction of High Myopia and Hyperopia: When Should We Go from the Cornea to the Lens?</td>
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<td>DSAEK and DMEK: Evolving Indications, Procedures, and Success</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
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<td>Trials and Triumphs in Dealing with Orbit-Related Strabismus</td>
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<td>Orbital and Oculoplastic Surgery</td>
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<td>Lacrimal Surgeries: From Basics to the Advanced</td>
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<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
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<td>Emerging and Re-Emerging Infectious Uveitis</td>
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<td>Prevention of Blindness</td>
<td>SYM</td>
<td>ICO-WHO Symposium: How to Increase Resources for Eye Care Through Evidence-Based Advocacy</td>
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<td>11:00-12:30</td>
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<td>Ophthalmic Education</td>
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<td>EAO Symposium: Recent Advances in European Ophthalmology of Global Significance</td>
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<td>SYM</td>
<td>APAO Leadership Development Program 2017-18 Orientation Class 2: LDP—You, Your Project, and Your Society</td>
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<td>Rapid Fire Ocular Imaging and Intraocular Inflammation, Uveitis &amp; Scleritis Update Session</td>
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<td>Comprehensive Ophthalmology</td>
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<td>Modern Laser Vitreolysis: How to Get Started</td>
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<td>Hall 405BX</td>
<td>Cataract</td>
<td>CC</td>
<td>Ophthalmic Premier League</td>
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<td>Glaucoma</td>
<td>SYM</td>
<td>Normal-Tension Glaucoma, Ocular Blood Flow, and the Brain: Part 1</td>
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<td>Hall 404A</td>
<td>Retina (Medical)</td>
<td>SYM</td>
<td>Advances in Endophthalmitis Management</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>Retinopathy of Prematurity</td>
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<td>Refractive Surgery</td>
<td>SYM</td>
<td>Presbyopia Correction: Still No Perfect Solution</td>
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<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Diagnosis and Management of Dry Eye and Ocular Allergy</td>
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<td>Orbital and Oculoplastic Surgery</td>
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<td>Eyelid Symposium 1: Pediatric—Future Challenges and Fresh Perspectives</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>IC</td>
<td>Management of Pediatric Cataracts</td>
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<td>308</td>
<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
<td>SYM</td>
<td>Diagnosis and Management of Non-Infectious Uveitis</td>
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<td>Neuro-Ophthalmology</td>
<td>SYM</td>
<td>Neuro-Ophthalmology Emergencies You Do Not Want to Miss</td>
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<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
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<td>Paradigm Shift in the Management of Microbial Keratitis</td>
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## Day 2 - Mar 3, 2017 (Friday) (Cont)

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<td>Orbital and Oculoplastic Surgery</td>
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<td>Recent Advances in Orbital Diseases</td>
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<td>301</td>
<td>Ophthalmic Epidemiology</td>
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<td>Rapid Fire Ophthalmic Epidemiology Update Session</td>
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<td>Cataract</td>
<td>IC</td>
<td>Conquering Capsule Complications</td>
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<td>11:00-12:30</td>
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<td>Cataract</td>
<td>SYM</td>
<td>Refractive Cataract/IOL Surgery: My Top 5 Pearls</td>
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<td>Glaucoma</td>
<td>SYM</td>
<td>WGA Symposium: Basic Course on Glaucoma Diagnosis</td>
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<td>Retina (Medical)</td>
<td>SYM</td>
<td>ISCEV Symposium: Clinical Electrophysiology of Vision</td>
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<td>SYM</td>
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<td>SYM</td>
<td>Presbyopia Correction: Where We Are Today and Where We Are Going Next</td>
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<td>The Inflamed Ocular Surface: Pterygium, MMP, SJS, and Chemical Injury</td>
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<td>Visual Sciences</td>
<td>SYM</td>
<td>Advances in Retinal Biology Including Pediatric Conditions</td>
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<td>SYM</td>
<td>Advances in Ocular Pathology and Oncology</td>
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<td>Prevention of Blindness</td>
<td>SYM</td>
<td>Diabetic Retinopathy Screening Programs in Different Parts of the World</td>
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<td>Defending the Ophthalmologist in a Medical Malpractice Lawsuit: Global Comparative Overview of Multiple Legal Systems</td>
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<td>Ocular Biology Including CRISPR</td>
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<td>Hall 405BX</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>ISRS Symposium: Pearls and Pitfalls in Contemporary Refractive Surgery—Matching Lasers and Lenses to Patients</td>
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<td>Glaucoma</td>
<td>SYM</td>
<td>APGS Symposium: Angle Closure</td>
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<td>Mystery Retinal Cases</td>
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# PROGRAM AT A GLANCE

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<td>Assessment, Evaluation, and Certification: Are We Doing It Right?</td>
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<td>Nicoll 3</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>Myopia—From the Research Bench to the Clinic</td>
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<td>Nicoll 2</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>Astigmatism Correction in Refractive Surgery: Cornea or Lens?</td>
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<td>Nicoll 1</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Contemporary Keratoprostheses in Clinical Practice: Are We There Yet?</td>
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<td>328+329</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>SYM</td>
<td>Beauty Is in the Details: Case-Centric, Customized Orbito-Facial Rejuvenation with Finesse</td>
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<td>309</td>
<td>Comprehensive Ophthalmology</td>
<td>IC</td>
<td>Ignorance Is Not Bliss. Sterilization of Ophthalmic Surgical Instruments: Myths and Facts</td>
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<td>304</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>IC</td>
<td>Management of Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians</td>
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<td>Miscellaneous</td>
<td>FP</td>
<td>Rapid Fire Retina (Surgical) and Pediatric Ophthalmology &amp; Strabismus Update Session</td>
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<td>302</td>
<td>Orbital and Oculoplastic Surgery</td>
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<td>Periorbital Applications of Botulinum Toxin Type A</td>
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<td>Miscellaneous</td>
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<td>Rapid Fire Cornea and Miscellaneous Update Session</td>
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<td>Orbital and Oculoplastic Surgery</td>
<td>IC</td>
<td>Management of Eyelid Trauma</td>
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The following information is provided to make your attendance at the 32nd APAO Congress in Singapore as enjoyable as possible. If you require assistance throughout the Congress, please visit the Registration Desk and we will do everything we can to help you.

**Event Name**
The 32nd Asia-Pacific Academy of Ophthalmology Congress

**Congress Venue**
Suntec Singapore Convention & Exhibition Centre
1 Raffles Boulevard, Suntec City, Singapore 039593

**Registration and Information Desk**
The APAO 2017 Congress Registration and Information Desk is located at the concourse on Level 3 of Suntec Singapore Convention & Exhibition Centre and will operate during the times listed below:

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<td>Mar 1, 2017</td>
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<td>Mar 2, 2017</td>
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<td>Mar 3, 2017</td>
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<tr>
<td>Mar 5, 2017</td>
<td>07:30 – 12:30</td>
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**On-Site Payment**
On-site payment with cash and credit card can be made at the Registration Desk during opening hours. Cheques are not accepted.

**Name Badges**
Each delegate registered for the Congress will receive a name badge at the Registration Desk.

All delegate badges entitles you to entry of the following:
- All Scientific Sessions;
- Exhibition Hall; and
- Opening Ceremony of APAO 2017

Accompanying Persons (if any) are entitled to enter only the Exhibition Hall and Opening Ceremony of APAO 2017.

This badge will be your official pass and must be worn during the Congress for identification.

Reissuing of delegate/accompanying person badges will be available at the Registration Desk. Badges are nontransferable. An administrative fee of USD20 may be incurred for re-issuing a delegate badge.

**Delegate Bag and Ribbon Collection**
Delegate bags and ribbons are available for pickup at the “Delegate Bag Pick Up” counter opposite the Registration Desk. Delegates can collect their own delegate bag upon presentation of their name badge.

**Dress Code**
Neat casual attire is acceptable for attendance at Congress sessions and social functions.

**APAO Smartphone App**
The APAO 2017 mobile app provides easy-to-use interactive capabilities to enhance your Congress experience. The app features all the scientific sessions and instructions courses, posters, e-posters, video abstracts, general information, floor plan, and a city map.

The app can be downloaded by scanning the QR code on the program book cover or that shown below.

Updating the app regularly is recommended. For help on downloading the app and navigating its functions, please ask for assistance at the Registration Desk.

**Speaker Ready Room**
All speakers are required to check in and upload their PowerPoint at the respective Speaker Ready Room 24 hours before their scheduled presentation. The computers in the Speaker Ready Room will have the exact same configuration as those in the session rooms. It is imperative that you review your presentation in the Speaker Ready Room where our technicians will help resolve any compatibility and/or formatting issues.

The PowerPoint and video files you have uploaded onto the computer in the Speaker Ready Room will be automatically transmitted to the laptop computer at the podium before your session begins. The Speaker Ready Room will be open during the following times in **Room 311**:

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Abstract Book
A PDF copy of the abstract book is available online at http://2017.apaophth.org/publications. No hard copy will be distributed. Please scan the QR code below to access the abstract book:

Scientific Posters
Paper posters can be found in the Exhibition Hall on Level 4. There will be 2 poster sessions showcasing over 300 posters.

Session 1: No. 1 – No. 160
Session 2: No. 161 – No. 325

Poster sessions will be conducted during the morning and afternoon breaks from Mar 2 – 5, 2017. Delegates can use the image scanner to scan the poster. They will then be directed to a recording made by the author where applicable.

E-Poster & Video Platform
There are over 376 accepted electronic posters and 56 selected videos showcased in APAO 2017. Delegates may visit the E-poster and Video Platform located in the Exhibition Hall. They can view e-posters via the smartphone app. They will then be directed to a recording made by the author where applicable.

Polling
Polling will take place in selected sessions. Please scan the QR code below to start to vote:

VIP Lounge
Delegates with a VIP Pass can use the VIP Lounge located in Room 332 with the following schedule:

<table>
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<td>Mar 2, 2017 (Thu)</td>
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<td>Mar 3, 2017 (Fri)</td>
<td>09:00 – 18:00</td>
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<td>Mar 4, 2017 (Sat)</td>
<td>09:00 – 15:00</td>
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<tr>
<td>Mar 5, 2017 (Sun)</td>
<td>09:00 – 12:00</td>
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Morning and Afternoon Tea
Morning and afternoon tea will be held in the Exhibition Hall.

Policies
No Smoking – Smoking is strictly prohibited in all session rooms, meeting and exhibition areas. Your cooperation is appreciated.
GENERAL INFORMATION

Venue Information

Suntec Singapore Convention & Exhibition Centre
1 Raffles Boulevard, Suntec City, Singapore 039593
General Enquiries: +65 6337 2888

Suntec Singapore Convention & Exhibition Centre is a world-renowned, international venue with the perfect location, the right space, a high level of flexibility, and cutting-edge technology. Located in the Central Business District, Suntec has a total of 42,000 square meters of space on multiple levels. Equipped with various professional conference facilities, Suntec can hold events for up to 10,000 delegates with a diverse choice of spaces that is well suited for all types of functions.

Site Map
Visiting Singapore

APAO 2017 will be held in a vibrant cosmopolitan city located in the heart of Asia—Singapore. Singapore is a top business destination of choice for many international and regional events. Brimming with energy, the city possesses a state-of-the-art infrastructure, a unique blend of contemporary and traditional ways of life, a rich and colorful multiracial, multicultural heritage, and is a melting pot of global cuisines.

For more information about this city, please visit the following website:
http://www.yoursingapore.com/content/traveller/en/experience.html

Weather
Singapore lies just north of the Equator and experiences warm and humid tropical weather all year round. March falls within the Northeast Monsoon season. It is a relatively dry and windy period of the year with mean maximum temperature of 30.1°C/86.2°F and mean minimum temperature of 25.9°C/78.6°F. For the latest weather forecast, please visit the website of Singapore’s National Environment Agency:
www.nea.gov.sg

Getting to the Congress Venue

Taxi
Taxis may drop passengers at the entrance of Suntec Singapore Convention & Exhibition Centre along Raffles Boulevard.

Train
Suntec Singapore Convention & Exhibition Centre is linked directly to Esplanade MRT Station on the yellow Circle Line.

Bus
The following bus routes serve Suntec Singapore Convention & Exhibition Centre:

For bus information, please visit the following website:

For more information, please visit the Suntec Singapore Convention & Exhibition Centre website:
http://www.suntecsingapore.com/

Telecommunications
You may purchase a pre-paid mobile SIM card at the airport or from a telco shop and most 7-Eleven stores in the city center. A passport, or some form of ID, is required to register the mobile number. At Suntec Singapore, a SIM card can be purchased from these shops:

StarHub
West Wing #02-317 Tel: (65) 6820 9210

Singtel
West Wing #02-318 Tel: (65) 6333 1283

M1
West Wing #02-323/324 Tel: (65) 6825 2668

Tipping
Tipping is not customary in Singapore. Most restaurants, however, levy a 10% service charge and 7% Goods and Services Tax (GST) on your bill.

Tax Refund
As a visitor, you may claim a refund on the 7% Goods and Services Tax (GST) paid on purchases made at participating retail shops when you leave Singapore and bring your purchases home. A minimum expenditure of S$100 is required. A handling fee will be deducted from the refundable GST amount. You may apply for the GST refund in the departure hall of Changi Airport.
SOCIAL PROGRAM

Opening Ceremony
Date: March 2, 2017 (Thursday)
Time: 16:00 – 17:00
Venue: Hall 405BX, Suntec Singapore Convention & Exhibition Centre
Open to All Delegates

Welcome Reception
Date: March 2, 2017 (Thursday)
Time: 18:00 – 18:30
Venue: Exhibition Hall, Suntec Singapore Convention & Exhibition Centre
Open to All Delegates

Presidential Dinner
Date: March 2, 2017 (Thursday)
Pick Up Time: 18:00 – 19:30
Time: 18:30 – 19:30 (Cocktail Reception)
19:30 – 21:30 (Dinner)
Venue: The Clifford Pier, Fullerton Bay Hotel Singapore
By Invitation Only

Gala Dinner
Date: March 3, 2017 (Friday)
Pick Up Time: 18:00 – 19:30
Time: 18:30 – 21:00
Venue: Flower Field Hall, Gardens by the Bay
Cost: US$100 per person
Open to All Delegates

Charity Run
Date: March 4, 2017 (Saturday)
Time: 6:00 – 8:00
Venue: Singapore Harbor Front
Open to All Delegates

Young Ophthalmologists’ Night
Date: March 4, 2017 (Saturday)
Time: 18:00 – 20:00
Venue: The Armoury, 36 Beach Road
(5-10 minutes’ walk from Suntec Singapore Convention & Exhibition Centre)
For Young Ophthalmologists and LDP Alumni
Asia-Pacific Journal of Ophthalmology

Freely accessible to all members registered on the website

Editor-in-Chief: Dennis Lam, MD

The Asia-Pacific Journal of Ophthalmology (APJO) is an online only, bimonthly peer-reviewed, Medline, Scopus, ESCI (Emerging Sources Citation Index) indexed, scientific publication for ophthalmologists and visual scientists. With a view to facilitating exchange of expertise among ophthalmologists and visual scientists in the Asia-Pacific region and beyond and encouraging research and publications in the region, the Asia-Pacific Journal of Ophthalmology serves as an excellent platform where eye care specialists in the Asia-Pacific region can interact with leading ophthalmologists in the world.

The APJO welcomes the submission of original, previously unpublished manuscripts which describe clinical investigations, clinical observations and clinically relevant laboratory investigations as well as critical review articles on currently hot topics.

Contact Information:
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Email: apjo-vickyhui@apaophth.org

Language Editor: Sydney Stonner
Email: apjo-sydeystonner@apaophth.org

Editorial Assistant: Winnie Ho
Email: apjo-winnieho@apaophth.org

To submit manuscripts to the Asia-Pacific Journal of Ophthalmology, visit:
http://www.apjo.org/
International Fellowship Program

To help promising young ophthalmologists from the Asia-Pacific region, in particular those from developing nations, to improve their clinical skills, surgical exposure, as well as their research experience, and to broaden their perspectives of ophthalmology.

Fellows are expected to bring their acquired knowledge and skills back to their native countries and participate in blindness prevention programs whenever appropriate.

The APAO International Fellowship Program (APAO IFP) adheres to the global initiative ‘Vision 2020’ in terms of spreading education and professionalism to all parts of the world and promoting international collaboration between institutions dedicated to eye care.

Two fellows have been successfully placed in one of the APAO’s training centers so far.

APAO Training Centers

The following accredited APAO International Training Centers will provide quality clinical training for APAO International Fellows:

China
- Beijing Tongren Eye Center
- C-MER (Shenzhen) Dennis Lam Eye Hospital (Clinical)
- Zhongshan Ophthalmic Center (Basic Science)

Hong Kong
- Department of Ophthalmology and Visual Sciences, The Chinese University of Hong Kong
- Department of Ophthalmology, University of Hong Kong

Japan
- Department of Ophthalmology, Osaka University Medical School

Nepal
- B.P. Koirala Lions Center for Ophthalmic Studies
- Til Ganga Institute of Ophthalmology

New Zealand
- New Zealand National Eye Centre

Singapore
- Singapore National Eye Centre

South Korea
- Department of Ophthalmology, Kyung Hee University Hospital

United States
- New York Eye and Ear Infirmary
- UCLA Jules Stein Eye Institute
The APAO awards the most prestigious Jose Rizal Medal to an outstanding ophthalmologist annually for his/her excellence in ophthalmology in the Asia-Pacific region. This medal was instituted to commemorate Dr Jose Rizal, an ophthalmologist who became a national hero of the Philippines. The medal is awarded at the APAO Congress by the APAO Council and presented by the dignitary who officiates the opening ceremony.

Donald TAN, FRCS(G), FRCS(Ed), FRCOphth, FAMS
Singapore

Prof Tan is a world leader in academic and clinical ophthalmology and has made substantial contributions to ophthalmology in the Asia-Pacific region. Prof Tan is the first recipient of the Arthur Lim Professorship in Ophthalmology at the Ophthalmology and Visual Sciences Academic Clinical Program at Duke-National University of Singapore Medical School. His past leadership roles includes the recent past medical director of Singapore National Eye Centre, director of Singapore Eye Research Institute (SERI), and chair of the Department of Ophthalmology, National University of Singapore (1998-2007). He is also currently a partner at Eye & Cornea Surgeons and Eye & Retina Surgeons, Singapore.

Prof Tan has contributed to over two and a half decades of clinical, surgical, and translational research and education in corneal transplantation, refractive surgery, and myopia control therapy with more than 350 scientific papers and 18 book chapters. In 2003, Prof Tan brought the Association of Research and Vision in Ophthalmology (ARVO) to Asia, in the form of the first SERI-ARVO meeting in Singapore, the forerunner of the ARVO-Asia meetings. In 2007, Prof Tan formed the Asia Cornea Society (ACS), dedicated to professional and educational efforts in reducing corneal blindness in Asia, and was elected as the inaugural president, a post he still holds today. In 2009, Prof Tan formed the Asia Cornea Society, and was elected as the inaugural president, a post he still holds today. In 2009, Prof Tan formed the Asia Cornea Society, dedicated to professional and educational efforts in reducing corneal blindness in Asia, and was elected as the inaugural president, a post he still holds today. In 2012, Prof Tan became the first international president of the US-based Cornea Society.

Prof Tan is among the pioneers of modern corneal transplantation surgery, pterygium surgery, ocular surface stem cell transplantation, and keratoprostesis surgery. He was among the first surgeons to develop new surgical techniques, such as deep anterior lamellar keratoplasty (DALK), and new devices and instrumentation, including the "Tan EndoGlide," a surgical device for Descemet stripping automated endothelial keratoplasty (DSAEK) that is currently used in 13 countries worldwide. He runs various lamellar transplantation courses, performs live surgery around the world, has conducted more than 100 international teaching courses, and has trained 35 international and local corneal fellows. He has also served on and chaired numerous international committees for ophthalmic professional organizations, including ARVO, AAO, APAO, and APSCRS, as well as the editorial boards of several ophthalmic journals and scientific advisory boards.

Additionally, Prof Tan has been highly active in myopia research, including many epidemiological studies on Asian myopia, but his main contribution has been the development of the ATOM (atropine in the treatment of myopia) randomized controlled trial. ATOM1 and ATOM2 have shown that ultra-low dose atropine eyedrops are able to safely retard myopia progression by 50-60% in children, and 0.01% atropine eyedrops are now routinely prescribed throughout Asia, with further confirmatory trials ongoing in Japan and China.

Prof Tan has won over 30 international awards, including the APAO De Ocampo Lecture, the AAO Senior Achievement Award, the AAO Casebeer Award, the Saudi Ophthalmological Society Gold Medal, the Australia and New Zealand Corneal Society Doug Coster Award, the Canadian Society of Ophthalmology Bruce Jackson Award, the EuCornea Medal, and the Albrecht von Graefe Innovator’s Award. In 2015, Prof Tan was awarded the ASCRS Binkhorst Medal Lecture for his innovative contributions to the field of corneal transplantation and the CLAO Richard L. Lindstrom, MD Lecture for his contributions to myopia research. This year, he has just been awarded the 2017 Donders Medal by the Netherlands Ophthalmology Society for his contributions to global ophthalmology and the visual sciences.
The Singapore Corneal Transplant Study—25 Years of Evolution in Corneal Lamellar Surgery

APAO Plenary Session II
March 2, 2017
17:00 – 18:00
Hall 405BX

The Singapore Corneal Transplant Study (SCTS) was initiated in 1991, when the Singapore National Eye Centre started, and since then has tracked well over 5000 optical, tectonic, and therapeutic corneal transplants performed by 10 corneal surgeons and over 20 corneal fellows in training. SCTS was originally inspired by the Australian Cornea Graft Registry and was originally designed to determine the indications for keratoplasty in Asian eyes and to track the long-term success of penetrating keratoplasty (PK). However, over the last 25 years, SCTS has captured the evolution of selective lamellar keratoplasty procedures, which now comprise 85% of all transplants. These include deep anterior lamellar keratoplasty (DALK) and endothelial keratoplasty (EK) procedures, such as Descemet stripping automated endothelial keratoplasty (DSAEK) and most recently, Descemet membrane endothelial keratoplasty (DMEK). This has enabled invaluable comparisons in success rate, long-term graft survival rates, complications, and risk factors between these lamellar procedures and standard PK surgery.

The results of SCTS clearly demonstrate enhanced graft survival rates and reduced complications with DALK and EK surgery, as compared to PK. Indications for corneal transplant surgery clearly differ from the West—pseudophakic bullous keratopathy remains the commonest indication for EK, while keratoconus and post-infectious corneal scars are the major indication for DALK surgery. Subset analysis confirms that DALK is clearly superior for keratoconus, corneal scars, and corneal stromal dystrophies, as compared to PK, while EK is clearly superior to PK for PBK, Fuchs dystrophy, and regrafts. SCTS confirms that the lamellar revolution in corneal transplantation remains fully justified.
NAMED LECTURES & AWARDS

APAAMARK TSO GOLDEN APPLE AWARD
FOR THE BEST CLINICAL TEACHER IN OPHTHALMOLOGY IN THE ASIA-PACIFIC REGION
Initiated by the International Council of Ophthalmology (ICO) as a token of the ICO’s commitment to improving ophthalmic education worldwide, the ICO Mark Tso Golden Apple Award honors the most dedicated teacher of clinical ophthalmology in the Asia-Pacific region. It is named after Prof Mark O.M. Tso, immediate past ICO Director of Education.

Lin-Chung WOUNG, MD, PhD
Chinese Taipei

Prof Lin-Chung Woung is an ophthalmic leader in the Asia-Pacific region who has a great passion for enhancing ophthalmic education. Over the years, Prof Woung has endeavored to promote ophthalmic education by taking up different leadership roles in Taiwan and beyond.

Prof Woung is president of the Ophthalmological Society of Chinese Taipei (CTOS) and as such is devoted to promoting communication among Asia-Pacific counterparts to produce a better networking platform for researchers, residents, ophthalmologists, and fellows in the Asia-Pacific region. Prof Woung is also supervisor of Taiwan Academy of Ophthalmology (TWAO), chief director of Taiwan Society of Cataract and Refractive Surgery, and deputy superintendent of Taipei City Hospital. During his time as president of TWAO, he established sub-societies in different ophthalmic subspecialties along with the TWAO Academic Exchange Grant in an attempt to improve the quality of ophthalmic disease treatment and management by promoting regional activities in ophthalmology education and research. To enhance the exchange of ophthalmic knowledge between Taiwan and other Asia-Pacific counterparts, under his lead, doctors at Taipei City Hospital joined the monthly APAO Grand Rounds Around the World in 2016. These monthly teleconferences help establish training and education guidelines for residents, fellows, and graduate students who specialize in ophthalmology and visual science.

Prof Woung’s devotion to ophthalmology extends beyond Taiwan. He was president of the 31st APAO Congress in Taipei in 2016, which included over 4500 delegates and over 500 invited speakers. Aside from the APAO Congress, Prof Woung also hosted the 2016 Taipei Cross-Strait Eye Forum. After organizing these international Congresses, he initiated an ICO Fellowship Program to help promising young ophthalmologists from developing countries improve their practical skills and broaden their perspectives of ophthalmology.

Prof Woung is also regional secretary on the APAO Council and is a member of the APAO Ophthalmic Education Standing Committee. As part of the committee, Prof Woung and other members successfully completed a survey of ophthalmic residency training in APAO member countries. This survey was carried out in response to the growing needs of enhancing ophthalmic education and ophthalmic care in the Asia-Pacific region for the next decade.

Apart from liaising with different supranational societies, Prof Woung has held several teaching positions to share his ophthalmic expertise and knowledge. He is currently associate professor of ophthalmology at National Taiwan University, professor of medical management at National Yang-Ming University, and professor of health care management at National Taipei University of Nursing and Health Sciences.

Prof Woung has placed great importance on the prevention of blindness. As secretary-general of the Loving Blind Association, he promoted humanitarian services and volunteer work such as free clinics and surgical treatments domestically and internationally. He also facilitated education on the treatment of cataract-related diseases in rural areas of Taiwan, mainland China, and Sri Lanka.

Numerous prestigious awards have been bestowed on Prof Woung over the years, including the APAO Outstanding Service in Prevention of Blindness Award, APAO Distinguished Service Award, CTOS Kwei-San Scientific Paper Award, CTOS Tokyo Contact Lens Scientific Award, and Scientific Paper Award (Department of Health, Taipei City Government).
Diabetes mellitus is an endemic disease and its prevalence is rising both in Taiwan and globally due to aging. When left untreated, diabetes will lead to major complications such as blindness, end-stage renal disease, foot ulceration, and cardiovascular diseases.

The Diabetes Shared Care Program (DSCP) was implemented nationally in Taiwan in 2001 to increase the quality of diabetes care, to provide continuity of care, and to reduce the occurrence of diabetes complications, including retinopathy. Participation in the DSCP was associated with a 14% reduction of cardiovascular disease events, a 16% reduction of stroke risk, and a 22% reduction of all-cause mortality.

Telecare demonstrated significant improvement in glycemic control for type 2 diabetes patients living in a rural community. Screening for diabetic retinopathy is both medically and economically substantial. Mobile health technology can be an effective tool in sharing data, enhancing communication, and improving glycemic control while enabling collaborative decision making in diabetes eye care.

Diabetic macular edema (DME) is the leading cause of visual impairment in patients with diabetes mellitus and has a significant impact on quality of life. Macular laser photocoagulation is the current mainstay treatment for DME in most Asian countries. Moreover, the efficacy and safety outcomes of intravitreal antivascular endothelial growth factor (anti-VEGF) and steroids in Taiwanese patients with visual impairment resulting from DME were consistent with those observed in other countries.

The management of diabetic eye diseases is ever changing, shifting from stringent glycemic control to a more individualized approach and genetic studies. Once again, the paradigm of management is shifting as new strategies are revealed, conferring greater benefits.
HOLMES LECTURE

The Holmes Lecture is the highest award for exceptional contributions to preventive ophthalmology, especially in the prevention of blindness in the Asia-Pacific region. The Holmes Lecture is named in memory of Dr William J Holmes, the founding Secretary-General of APAO.

Taraprasad DAS, MD, FRCS, DSc, FAMS
India

Dr Taraprasad Das is currently Vice Chairman of the L.V. Prasad Eye Institute. He is a professor of ophthalmology at Sun Yat-Sen University in Guangzhou, China; adjunct professor of ophthalmology at the University of Rochester Medical School in Rochester, New York; and fellow of the National Academy of Medical Sciences, India.

Trained in medical and surgical management of vitreoretinal diseases, he has received 18 research grants. He has led, and is currently leading, a number of research programs in diabetic retinopathy and public health. He also has an active clinical and research interest in infective endophthalmitis. He has published 198 papers, 39 book chapters, and has authored or edited 8 books. He has given more than 350 lectures in India and abroad.

Dr Das’ current leadership positions include the following: regional chair, International Agency for Prevention of Blindness Southeast Asia; president, Asia-Pacific Vitreo-retina Society; Research Committee member, Asia-Pacific Academy of Ophthalmology; associate editor, Asia-Pacific Journal of Ophthalmology; Editorial Board member, Ophthalmic Research; member, International Council of Ophthalmology (ICO) Ophthalmology Specialty (Vitreoretina) Training; Ethics Committee chair, Indian Institute of Public Health; board member, VISION 2020 India; Advisory Committee member, 13th Five Year Plan, Government of India; and task force member for diabetic retinopathy, Government of India.

He is also former president of the All India Ophthalmological Society and Vitreo Retinal Society of India; Program Committee chair, Association of Research in Vision and Ophthalmology; and chief editor, Indian Journal of Ophthalmology.

Dr Das has delivered 14 named lectures and has received 26 awards from state and national societies in India (1993-2015), from the Asia-Pacific Academy of Ophthalmology (2006 and 2013), and the American Academy of Ophthalmology (2003 and 2015). He was conferred a Doctorate of Science (Honoris Causa) by Ravenshaw University in the year 2011.

He received the Padma Shri, the fourth highest civilian honor from the government of India, in the year 2013.
Blindness Profile and Rapid Assessment of Avoidable Blindness in Southeast Asia

How to Increase Access to Cataract Surgery to Combat Cataract as the Leading Cause of Blindness in the World
March 3, 2017
14:30 – 16:00
Room 304

The Southeast Asian region that consists of 11 countries has a population of 1,761 million, which accounts for approximately 26% of the world’s population. Twelve million blind and 78.5 million visually impaired people live in Southeast Asia: 30% and 32% of global blind and visually impaired individuals, respectively. The blindness profile in Southeast Asian countries varies widely: blindness from 0.33% (Bhutan) to 4.5% (Timor Leste); and cataract surgical coverage from 32% (Bangladesh) to 95% (Thailand). There is a shortage of human resources and improper urban-rural distribution. Unfortunately, some essential data are unavailable or only partly available in 2 countries in the region: the Maldives and Timor Leste. We completed a nationwide rapid assessment of avoidable blindness (RAAB) survey in these nations. The following definitions were used: blindness, visual acuity < 3/60; severe visual impairment (SVI), visual acuity < 6/60; moderate visual impairment (MVI), visual acuity < 6/18. Some relevant findings in the Maldives are as follows: blindness, 2% (1.8% male, 2.3% female); SVI, 1.9% (2.2% male, 1.9% female); and MVI, 12.8% (12.7% male, 10% female). Cataract (51.4%) and uncorrected refractive error (URE, 50.9%) were the principal causes of blindness and SVI, respectively.

In Timor Leste: blindness, 2.8% (2.4% male, 3.1% female); SVI, 4.5% (4% male, 4.9% female); and MVI, 12.5% (12% male, 13.1% female). Cataract was the principal cause of both blindness (79.4%) and SVI (96.4%), followed by URE (32.2%). Rigorous focus is necessary to improve service delivery, create gender equity, and increase capacity building in Southeast Asia to reduce blindness and visual impairment.
NAMED LECTURES & AWARDS

NAKAJIMA AWARD

Aimed at encouraging young ophthalmologists to play a more active role in ophthalmological development, the Nakajima Award honors young individuals for their outstanding international work in ophthalmology. The candidate should preferably be aged 40 years or younger and actively involved in international activities that assist in the development of ophthalmology, particularly in relation to prevention of blindness, ophthalmic service, and research pertinent to major blinding conditions such as cataract, diabetic retinopathy, glaucoma, corneal grafting, keratomalacia, trachoma, and corneal ulcer.

**Vishal JHANJI, MBBS, MD, FRCS (Glasgow), FRCOphth (UK)**
Hong Kong

Dr Vishal Jhanji completed his ophthalmology training from the prestigious All India Institute of Medical Sciences, New Delhi, India. He then undertook his specialist training in cornea, external eye diseases, and refractive surgery in India and Melbourne, Australia. Dr Jhanji has co-pioneered new techniques of endothelial corneal transplantation and has major publications to his credit in reputed international peer-reviewed journals. In 2008 and 2009 he won the Best of Show Award at the annual meeting of the American Academy of Ophthalmology.

Dr Jhanji serves on the editorial board of several journals including the *British Journal of Ophthalmology*, *Scientific Reports*, *Medicine, PLoS One*, *Asia-Pacific Journal of Ophthalmology*, and *Journal of Mobile Technology in Medicine*. He is also a member of the Publications Committee of Association for Research in Vision and Ophthalmology and International Meetings Committee of the American Academy of Ophthalmology. Dr Jhanji is a visiting professor at the Joint International Eye Center of Shantou University, China and Wenzhou Medical School, China. Dr Jhanji has published more than 200 papers in SCI international indexed peer-reviewed journals, 2 books, and more than 15 book chapters.

Keratoconus Diagnostics and Corneal Collagen Crosslinking—Current Perspectives

**Corneal Update Session**
March 3, 2017
14:30 – 16:00
Nicoll 1

Keratoconus is a type of corneal ectasia characterized by progressive corneal thinning, myopic astigmatism, and ocular morbidity. Traditionally, the diagnosis of keratoconus is made by clinical history and corneal tomography. Recently, non-tomographic modalities are being increasingly used for diagnosis of keratoconus at an early stage. It has been suggested that the change in corneal shape and thickness, which can be detected with corneal tomography, is preceded by alterations in corneal biomechanics. This is important because early and progressive keratoconus is now amenable to collagen crosslinking. This surgical treatment utilizes riboflavin and ultraviolet irradiation for “strengthening” the biomechanical framework of cornea in keratoconus. Numerous studies have shown the efficacy and safety of collagen crosslinking in cases with progressive keratoconus. A paradigm shift has been witnessed in treatment protocols for keratoconus with the introduction of corneal crosslinking. The use of crosslinking has led to a decrease in the number of corneal transplantation procedures worldwide.
Robert RITCH, MD, FACS, FARVO, FRCOphth, DSc(Hon)
United States

Dr Robert Ritch holds the Shelley and Steven Einhorn Distinguished Chair in Ophthalmology and is Surgeon Director Emeritus and Chief of Glaucoma Services at the New York Eye & Ear Infirmary of Mount Sinai, New York City. He has devoted his career to broadening our understanding of the underlying etiologies and mechanisms of glaucoma and innovation in its medical, laser, and surgical treatment. When still a fellow in 1978, he performed the first laser iridotomy in New York and initiated the first course on laser treatment of glaucoma at the American Academy of Ophthalmology.

He developed argon laser peripheral iridoplasty for the treatment of angle closure more complicated than pupillary block, which was instrumental in dealing with angle closure in East Asia, and taught on the diagnosis and treatment of angle closure around the world. His other major interests include pigment dispersion syndrome, exfoliation syndrome, and normal-tension glaucoma, to which he has made seminal contributions.

Dr Ritch has co-authored or edited 9 textbooks and over 1700 medical and scientific papers, book chapters, articles, and abstracts. He has presented nearly 700 lectures worldwide, including 50 named lectures, and has received over 50 awards and medals.

His awards since 2006 include the Albion O. Bernstein, MD Award for outstanding contributions to medicine, the American Academy of Ophthalmology Lifetime Achievement Honor Award, the Leadership in Education in Ophthalmology (LEO) Award, the Glaucoma Foundation Award for Innovation and Excellence in Glaucoma, the TKC Liu Memorial Award for Leadership in Ophthalmology, the Ronald F. Lowe Gold Medal of the Australia-New Zealand Ophthalmology Society, the ARVO Distinguished Service Award, ARVO Gold Fellowship, the HRH Prince Abdulaziz Al-Saud Prevention of Blindness Award, the Jose Rizal International Medal, the El-Maghraby International Achievement Award, the inaugural Asia-Pacific Glaucoma Society International Achievement Award, and the World Glaucoma Association Recognition Award, among others.

Dr Ritch has been president of the Ophthalmic Laser Surgical Society, the New York Glaucoma Society, the Section on Ophthalmology of the New York Academy of Medicine, and the New York Society for Clinical Ophthalmology. He has served on numerous medical and scientific advisory, editorial, and organizational boards including the Helen Keller Foundation, the World Glaucoma Association, and the Pan-American Association of Ophthalmology. He was elected to the Glaucoma Research Society and Academia Ophthalmologica Internationalis. His appointments include Adjunct Senior Principal Research Scientist at Singapore Eye Research Institute.

In 1985, he founded the Glaucoma Foundation and has served as secretary, medical director, and chairman of the Scientific Advisory Board. In 1994, he initiated the annual Optic Nerve Rescue and Regeneration Think Tank, which has attracted numerous successful researchers from other fields into glaucoma research. He also co-founded the New York Glaucoma Research Institute, a not-for-profit foundation to sponsor clinical research in glaucoma; the alt.support.glaucoma Internet newsgroup; the New York Glaucoma Support and Education Group; and the World Glaucoma Patient Association. He was one of three organizers of the first World Glaucoma Day in 2008. He was co-founder of the Ophthalmic Laser Surgical Society, the New York Glaucoma Society, and the Lindberg Society, an international organization dedicated to the eradication of exfoliation syndrome.

Dr Ritch has trained over 150 clinical and research fellows, many of whom occupy academic positions worldwide. The international training program that he established at New York Eye & Ear Infirmary has hosted over 100 International Council of Ophthalmology fellows and more than 140 observers from over 50 countries.
The Coming of Age of Exfoliation Syndrome

APAO Plenary Session II
March 2, 2017
17:00 – 18:00
Hall 405BX

For nearly a century after its 1917 description in Finland, exfoliation syndrome (XFS) was regarded as a disease peculiar to Scandinavia and largely ignored elsewhere, where it was thought rare and usually overlooked or misdiagnosed. A generation ago, epidemiology, histopathology, electron microscopy, and early molecular studies established XFS as a disease differing in all major aspects from primary open-angle glaucoma, yet these discoveries’ potential ramifications remained underappreciated.

The recognition that XFS is universal, particularly in Europe and the Middle East, and that it is the most common recognizable cause of open-angle glaucoma worldwide, spurred increasing investigation of the nature of the material and its formation. Concomitantly, a growing number of systemic associations is being reported, including hearing loss, cerebro- and cardiovascular diseases, and elastic tissue disorders; plus, involvement of growth factors, antioxidant deficiency, clusterin, and complement make this a unique disease.

The discovery of polymorphisms in the LOXL1 gene in 2007 spurred worldwide investigation into its role and distribution. Multiple newly discovered mutations (1 protective) have opened the door to understanding XFS at more basic levels and how genes interact to produce the disease. The recent discovery elucidating XFS as a disease of autophagy, with lysosomal dysfunction, decreased clearance of autophagosomes, and reduced mitochondrial membrane potential, have established XFS as a systemic disorder of extracellular elastic matrices of which glaucoma is but one manifestation. Within just a few years, XFS has jumped from obscurity into recognition as an important, widespread, protean disorder, which is potentially preventable, reversible, and even curable.
Prof Wan Hazabbah Wan Hitam is the senior lecturer, consultant ophthalmologist, and neuro-ophthalmologist in the Department of Ophthalmology, School of Medical Sciences, Health Campus Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia. He is head of the neuro-ophthalmology service and former head of the same center. He is the first trained neuro-ophthalmologist in Malaysia and now chief of the Neuro-Ophthalmology Subspecialty Training Programme of Malaysia. He received his fellowship training in neuro-ophthalmology from the Eye Institute at Tan Tock Seng Hospital, Singapore. His main research interest areas are optic neuritis, visual pathway, and visual electrophysiology. He is the first Malaysian ophthalmologist to receive the Tsutsui Award (in 2008) from the Japanese Neuro-Ophthalmology Association. He has been a council member of the Asian Neuro-Ophthalmology Society since 2015. He was formerly chair of the Malaysian Universities Conjoint Committee in Ophthalmology and also the USM Doctors’ Alumni Association.

Neuroretinitis—Challenges in Diagnosis and Management

Neuroretinitis is an inflammation involving the optic nerve and the neural retina. It is characterized by swelling of the optic disc and peripapillary or macular hard exudates. These clinical findings pose a diagnostic challenge even to an experienced ophthalmologist because neuroretinitis has similar signs to other optic neuropathies such as papilledema, ischemic optic neuropathy, optic neuritis, compressive lesions, and hereditary, toxic, or even nutritional deficiencies. The extent of diagnosis in neuroretinitis still requires proper history taking. Neuroretinitis may be of infectious, inflammatory, autoimmune, or idiopathic etiology. A majority of infectious cases are due to cat-scratch disease caused by *Bartonella* species. Other infectious diseases implicated include syphilis, Lyme disease, toxoplasmosis, toxocariasis, histoplasmosis, and leptospirosis. Serologic testing is the most cost-effective method to confirm the diagnosis in most patients with bartonellosis. However, serologic testing can yield negative results or be otherwise non-diagnostic in immunocompromised patients. There has been no prospective study on the efficacy of azithromycin in treating ocular bartonellosis. Azithromycin is a trending preferred antibiotic because of its safety profile and patient compliance. Other antimicrobial agents used include the empirical doxycycline and rifampicin as well as other alternatives such as ciprofloxacin, ceftazidime, and co-trimoxazole. The role of systemic corticosteroids in the treatment of ocular bartonellosis remains unclear. They may help to control the degree of intraocular inflammation and optic neuropathy. Therefore, a prospective multicenter study may provide further knowledge and improve the diagnosis and management of neuroretinitis.
SINGAPORE NATIONAL EYE CENTRE
RICHARD FAN LECTURESHIP AWARD

Dennis Lam, MBBS, MD, DO, FRCS, FRCOphth, FHKAM
Hong Kong

Prof Dennis Lam is a key leader of ophthalmology in the Asia-Pacific region and beyond. He is president of the Asia-Pacific Academy of Ophthalmology (APAO) and editor-in-chief of the Asia-Pacific Journal of Ophthalmology (APJO). He serves the Academy of the Asia-Pacific Professors of Ophthalmology (AAPPO), Asia-Pacific Vitreo-retina Society (APVRS), and Asia-Pacific Myopia Society (APMS) in the capacity of secretary-general. Moreover, he is also a fellow of Academia Ophthalmologica Internationalis and a council member of the International Council of Ophthalmology (ICO) and the World Glaucoma Association. He has served as deputy of the National People's Congress of China since 2008. He established the Hong Kong C-MER International Eye Care Group in 2012 and is now running 1 eye center and 4 eye clinics in Hong Kong and 1 eye hospital in Shenzhen, China.

He is a physician scientist with prolific output. He has published over 800 international peer-reviewed journal articles and his current H-Index is 51. His main research interests are cataract and refractive surgeries, glaucoma, macular diseases and surgeries, translational research, and developing new drugs. Apart from APJO, he has served as an editorial board member of more than 10 eye journals over the years, including Clinical Experimental Ophthalmology (associate editor), British Journal of Ophthalmology, Journal of Cataract and Refractive Surgery, Acta Ophthalmologica, Ophthalmic Research, and Japanese Journal of Ophthalmology, among others.

Prof Lam was the Associate Dean (External Affairs) of the Faculty of Medicine, The Chinese University of Hong Kong (CUHK) from 2004 to 2009. He was also chair of the Department of Ophthalmology & Visual Sciences at CUHK for 13 years (1998–2011). He served as director of the State Key Laboratory of Ophthalmology, Sun Yat-Sen University (2012–2015), which is the only state key laboratory of ophthalmology in China. Furthermore, he was president and chair of the Organizing Committee of the World Ophthalmology Congress 2008 in Hong Kong.

Prof Lam is passionate about eliminating cataract blindness in China. He is the founder of Project Vision Charitable Foundation, a sustainable charity where local doctors are taught to perform cataract surgeries. Project Vision aims to establish 100 charity eye centers in impoverished areas of China. Since 2004, 28 centers and 1 hospital have been established in 9 provinces with over 140,000 charity cataract surgeries performed and over 130 eye doctors trained to perform cataract surgery independently.

Over the years, a number of awards have been bestowed on Prof Lam, including Ten Outstanding Young Persons of Hong Kong (1994), Ten Outstanding Young Persons of the World (1995), Young Leader of Hong Kong (1998), World Economic Forum’s Hundred Global Leaders for Tomorrow (2000), Hong Kong Humanity Award (2007), the prestigious ICO Golden Apple Award (2011), APAO Jose Rizal Medal, APAO De Ocampo Lecture (2003), one of the “Top 100 Most Influential Ophthalmologists in the World in 2014 & 2016” by The Ophthalmologist, and the Educator Award of the Asia-Pacific Association of Cataract & Refractive Surgeons (2005). Additionally, Prof Lam has been a Justice of the Peace in Hong Kong since 2004.
Managing Refractory Macular Holes and Macula-Off Retinal Detachments

APAO Plenary Session I
March 2, 2017
14:30 – 15:30
Hall 405BX

For decades, macular hole was deemed untreatable and it was only after Kelly and Wendell’s success with vitrectomy published in 1991 that macular hole became a treatable condition. From a standard vitrectomy achieving a modest success of 58% in their study, macular hole surgeries have undergone phenomenal progress and the success rate has now risen to well over 90% for most macular hole cases, though high risk cases still have poor outcomes. It was not until 2010 with the introduction of the internal limiting membrane (ILM) flap technique by Michalewska that refractory and large macular hole cases became “treatable.” The ILM flap technique has itself undergone several modifications such as overlaying an inverted flap, pedicle grafts, autologous transplantation, and tucking method to maximize yields of type 1 closure and better visual outcomes. By the same token, “macula-off” retinal detachment (RD) was considered to have poor visual prognosis. Studies over the past 3‒4 decades have outlined the importance of timing of surgery as urgent for macula-on and elective for macula-off RDs. The debate in timing has never ceased and this year a large retrospective study revealed good outcomes for macula-off RD within the first 3 days. In this presentation, I shall share my experiences with refractory/large macular holes and macula-off RD with moderate delay that still resulted in good visual outcomes. Medical advances are marching forward in leaps and bounds! Whatever imaginable is achievable and today’s unthinkable could be tomorrow’s invention.
SINGAPORE NATIONAL UNIVERSITY HOSPITAL
HONG LEONG PROFESSORSHIP LECTURE

Timothy Blenkinsop, PhD
United States

Dr Timothy Blenkinsop obtained his BS at the University of Wisconsin-Whitewater and his MS and PhD at New York University, under the supervision of Dr Eric Lang, in the department of Neuroscience and Biophysics directed by Dr Rodolfo Llinas. Currently, Dr Blenkinsop is an assistant professor at the Icahn School of Medicine at Mount Sinai and the Hong Leong Visiting Professor at the National University of Singapore. He is a member of the Retinal Stem Cell Consortium, a NY-state supported consortium of investigators that is developing a cell transplantation therapy for patients with age-related macular degeneration, with the aim of rescuing their vision.

During his PhD program, Dr Blenkinsop conducted in vivo multielectrode recordings of multiple regions of the cerebellar system, which demonstrated the importance of gap junctions in the inferior olive on the rhythmicity and synchrony of the cerebellum for motor coordination. This electrophysiological background benefited him greatly when he joined the laboratory of Dr Sally Temple as a postdoctoral fellow at the Neural Stem Cell Institute in Rensselaer, NY. Dr Blenkinsop developed a new technique to culture retinal pigment epithelium (RPE) from adult human cadaver donors, so that RPE retain their native physiology in vitro. Moreover, this led to discovering a new stem cell in the RPE, termed the RPESC, and revealed the plasticity of the RPE cells. He has since developed in vitro models of RPE diseases, including age-related macular degeneration and proliferative vitreoretinopathy. He is continuing to examine the epigenetic landscape of RPE during normal eye development and in RPE diseases, to pinpoint the transcriptional foundation that endows RPE with plasticity.


Retinal Stem Cell Therapy—It’s Here

Innovations in Retinal Disease Management
March 3, 2017
16:30 – 18:00
Hall 404A

Considering the incidence of retinal pigment epithelium (RPE)-related blinding disease will grow to 200 million globally by 2020, the impact of restoring vision by successfully replacing failing or dying RPE is great. In spite of fervent efforts to use primary RPE as a source for transplantation for over 30 years, a clinical therapy has yet to be developed. And while pluripotent stem cell-derived RPE are a promising cell source, the controversies surrounding immune rejection, tumor formation, and immaturity suggest much is still unknown. We have developed in vitro models of eye diseases, including age-related macular degeneration and proliferative vitreoretinopathy, using adult human RPE that retain in vitro native RPE physiology. Through transcriptional and epigenetic analyses, we are beginning to understand the mechanisms underlying the transformation of healthy RPE in pathological states, in the efforts to provide insight for developing therapies for RPE-related diseases. Moreover, pre-clinical studies demonstrate that adult RPE transplants are very efficient in preserving vision in rodent models of age-related macular degeneration, making these cells a promising source for modeling eye disease and cell transplantation.
Giovanni Staurenghi
Italy

Giovanni Staurenghi is currently professor of ophthalmology, chair of the University Eye Clinic, and director of the University Eye Clinic Department of Biomedical and Clinical Sciences “Luigi Sacco” at Luigi Sacco Hospital in Milan, Italy and director of the residency program at the same university. He was awarded his degree at the University of Pavia, Italy, in 1986 and completed his residency at the University of Milan in 1990. He was a research fellow at the Schepens Eye Research Institute in Boston, Massachusetts, from 1991 to 1992 and visiting scientist at the same institute from 1992 to 1993. He became an associate professor in 1999 and was promoted to full professor in 2007.

Professor Staurenghi is a scientific advisor of the Digital Angiography Reading Center and visiting professor and consultant for the Belfast Ophthalmic Reading Center at the Central Angiographic Resource Facility. He is also a member of the editorial board of Investigative Ophthalmology and Visual Science, Retina, and American Journal of Case Reports and acts as a reviewer for many international scientific journals.

Professor Staurenghi’s research, publications, and lectures have an important bearing on retinal degeneration; in particular, his work is focused on different types of imaging and treatment. He has been a member of ARVO since 1988, the Macula Society since 2004, the Ophthalmic Photographers’ Society since 2006, and the AAO since 2007. He was part of the Annual Meeting Program Committee for ARVO from 2008 to 2010. He is an ARVO silver fellow and fellow of the European Board of Ophthalmology.

Multimodal Imaging in Retinal-Choroidal Diseases

Clinical Applications of Posterior Segment Imaging
March 4, 2017
14:30 – 16:00
Room 328 + 329

A multimodal imaging approach is important for the correct diagnosis of different choroidal neovascularizations. From color to infrared reflectance, from fluorescein angiography to indocyanine green angiography, from optical coherence tomography (OCT) to OCT angiography, all these modalities allow for differential diagnosis of choroidal neovascularization type 1 and type 2, polypoidal lesions, and retinal angiomatous proliferation. Different treatment modalities can be better used and provide the possibility of personalized treatment.
Distinguished Service Awards

The Distinguished Service Awards are presented to ophthalmologists of APAO’s member organizations for their distinguished service to improving ophthalmology in their countries or tariff territories.

Hazrat ALI
Bangladesh

Peng ZHOU
China

Can YUEN
Hong Kong

Niti SUSILA
Indonesia

Virendra AGRAWAL
India

Tatsuro ISHIBASHI
Japan

Yoon-Duck KIM
Korea-South

Tseinpil BAASANDORJ
Mongolia

Mimiwati ZAHARI
Malaysia

Jyoti SHRESTHA
Nepal

Ruben LIM BON SIONG
Philippines

Muhammad MOIN
Pakistan

Audrey CHIA
Singapore

Charith FONSEKA
Sri Lanka

Chakrapong NAMATRA
Thailand
OUTSTANDING SERVICE IN PREVENTION OF BLINDNESS AWARDS

The Outstanding Service in Prevention of Blindness Awards are given to individuals or organizations whose contributions are instrumental in prevention of blindness in the Asia-Pacific area.

Laurence SULLIVAN  
Australia

Sharfuddin AHMED  
Bangladesh

Mingzhi ZHANG  
China

Hunter YUEN  
Hong Kong

Lutfah RIF’ATI  
Indonesia

Salil KUMAR  
India

Satoshi KASHII  
Japan

Nam Ju MOON  
Korea-South

CHAMPA BANAGALA  
Sri Lanka

Jun Shyan WONG  
Malaysia

Bhamirath BANIYA  
Nepal

LINAW TINGIN  
Philippines

Tayyib AFGHANI  
Pakistan

Jod MEHTA  
Singapore

Anukul THAITANUNDR  
Thailand
ACHIEVEMENT AWARDS

The APAO Achievement Award Program was established in 2008 to recognize individuals for their time and contribution to the scientific programs of the APAO Annual Congress.

SENIOR ACHIEVEMENT AWARD

Ningli WANG
China

Abhay VASAVADA
India

Tien-Yin WONG
Singapore

ACHIEVEMENT AWARD

Ana G. PALIS
Argentina

James E ELDER
Australia

Frank J MARTIN
Australia

Peter J MCCLUSKEY
Australia

David A MACKEY
Australia

Jonathon Q NG
Australia

Leopold SCHMETTERER
Austria

Golam HAIDER
Bangladesh

Ava HOSSAIN
Bangladesh

Mukti Rani MITRA
Bangladesh

Marie-José-Betsy TASSIGNON
Belgium

Carlos G. ARCE
Brazil
ACHIEVEMENT AWARDS

Zi-Bing JIN
China

Bin LI
China

Dongmei LI
China

Fengju ZHANG
China

Xiulan ZHANG
China

Bryan Hung Yuan LIN
Chinese Taipei

Lin-Chung WOUNG
Chinese Taipei

Ivo KOCUR
Czech Republic

Osama Ibrahim AHMED
Egypt

Tero KIVELÄ
Finland

Mårten Erik BRELÉN
Hong Kong

Noel CY CHAN
Hong Kong

Tat Keong CHAN
Hong Kong

John S. CHANG
Hong Kong

Guy Li-Jia CHEN
Hong Kong

Chi Wai TSANG
Hong Kong
ACHIEVEMENT AWARDS

Sudhank BHARTI
India

Kasturi BHATTACHARJEE
India

Bhuvan CHANANA
India

Rajesh FOGLA
India

Subhadra JALALI
India

Ramesh KEKUNNAYA
India

Fairooz P MANJANAVIDA
India

Sujatha MOHAN
India

Vinay NANGIA
India

Ravindran D RAVILLA
India

Radhika TANDON
India

Tjahjono D GONDHOWIARDJO
Indonesia

Made SUSIYANTI
Indonesia

Masaru INATANI
Japan

Yoshitsugu INOUE
Japan

Satoshi KASHII
Japan
Achievement Awards

Koh-Hei SONODA
Japan

Hyosook AHN
Korea-South

Jin Wook JEOUNG
Korea-South

Kyung Chul YOON
Korea-South

Hyeong-Gon YU
Korea-South

Kenneth C S FONG
Malaysia

Sanduk RUIT
Nepal

Stuti L MISRA
New Zealand

Trevor SHERWIN
New Zealand

Zia ul MAZHRY
Pakistan

Helena Prior FILIPE
Portugal

Gemmy CM CHEUNG
Singapore

Paul CHEW
Singapore

Audrey CHIA
Singapore

Han-Bor FAM
Singapore

Sonal FARZAVANDI
Singapore
NAMED LECTURES & AWARDS

ACHIEVEMENT AWARDS

Gopal LINGAM
Singapore

Ecosse LAMOUREUX
Singapore

Seo Wei LEO
Singapore

Tock Han LIM
Singapore

Audrey LOOI
Singapore

Stephen C TEOH
Singapore

Sharon L TOW
Singapore

Inez B WONG
Singapore

Ian Y S YEO
Singapore

Chee-Chew YIP
Singapore

Tarek SHAARAWY
Switzerland

Nattawut WANUMKARNG
Thailand

Sally S ATHERTON
United States

Michael W BELIN
United States

Terete BORRÁS
United States

Michael P GRANT
United States
NAMED LECTURES & AWARDS

ACHIEVEMENT AWARDS

Paul L KAUFMAN
United States

Kanwal K NISCHAL
United States

Srinivas R SADDA
United States

Bruce E SPIVEY
United States

Linda M TSAI
United States

Alejandra A VALENZUELA
United States

Janey L WIGGS
United States
NAMED LECTURES & AWARDS

APA O YASUO TANO TRAVEL GRANTS

The APAO Yasuo Tano Travel Grants were established in 2010 in memory of the late APAO President Professor Yasuo Tano to offer financial support for up and coming young ophthalmologists to attend the APAO Annual Congress.

Md. Shafiqul ISLAM  
Bangladesh

Sophal HENG  
Cambodia

Jingming LI  
China

Shaoying TAN  
China

Wei ZHU  
China

Ahmed S NEGIDA  
Egypt

Hiranmoyee DAS  
India

Diva K MISRA  
India

Sangeetha THARMATHURAI  
Malaysia

Arjun SHRESTHA  
Nepal
MARK YOUR CALENDAR
JUNE 28–JULY 1, 2017

Please save the date for the 7th
WORLD GLAUCOMA CONGRESS
JUNE 28–JULY 1, 2017
HELNSINKI

THE GLOBAL GLAUCOMA NETWORK
www.worldglaucoma.org
Held annually in the second week of October, the Asia-Pacific Eye Care Week is an initiative to raise public awareness about eye care and eye health in the region. To that end, member societies are invited to organize various activities, which may include:

- Organizing a screening event in your local institute / hospital
- Giving lectures to patient support groups / the general public
- Participating in radio and TV shows to talk about any eye diseases and to answer questions
- Contacting newspapers to publish information about eye care, eye health and/or any eye diseases
In 2012, the Asia-Pacific Academy of Ophthalmology (APAO) partnered with SLACK Incorporated and OCULAR SURGERY NEWS (OSN) to launch OCULAR SURGERY NEWS APAO Edition, an innovative, web-based digital newspaper that is specifically formatted to be mobile-friendly and compatible with nearly any electronic device. Published 10 times a year, this newspaper is distributed to APAO’s top organization of more than 50,000 ophthalmologists throughout the Asia-Pacific region, including China, India and Japan.

FEATURES INCLUDE:
- APAO news
- Meeting highlights
- Commentary
- Ophthalmic business updates

TOPICS INCLUDE:
- Refractive surgery
- Cataract surgery
- Glaucoma
- Cornea/External disease
  And more!

Read the latest issue today at OSNAAPA0.Healio.com or email editor@healio.com to join our distribution list
### Mar 1, 2017 (Wed)

**Miscellaneous**

**Improving Eye Workforce Challenges Through Harmonized Allied Ophthalmic Personnel Training**

In this symposium, the audience will learn about the need for and role of allied ophthalmic personnel (AOP). Speakers will give an overview of the Cambridge declaration that endorses AOP in the prevention of blindness, principles to train the trainers, and case studies on the implementation of training programs in the Asia-Pacific region. AOP Train the Trainer models will be shared and the ongoing development of a global AOP training project will be presented. Attendees will benefit from the diverse background of AOP training program materials and the resources presented that are relevant for use and implementation in their countries and exposure to the lead agencies involved in AOP development.

14:30 - 16:00  
**Venue: 300**  
**Chair(s): Lynn ANDERSON**

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<td>Training Principles</td>
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<td>Curriculum for AOP and Global Training Program</td>
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<td>Jayabaskar THIYAGARAJAN</td>
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<td>Course and Assessment Examples</td>
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<td>Case Study – Aravind Model</td>
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<td>Case Study – Singapore</td>
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**The ICO Exams and Fellowships Symposium**

14:30 - 16:00  
**Venue: 301**  
**Chair(s): Simon KEIGHTLEY, Berthold SEITZ**

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**Pediatric Ophthalmology & Strabismus**

**Pediatric Anterior Segment Disorders**

16:30 - 18:00  
**Venue: 301**  
**Chair(s): Yee Fong CHOONG, Kanwal “Ken” NISCHAL, Donald TAN**

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<td>Pediatric Cataract Surgery: My 4 Most Important Tips</td>
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<td>Yee Fong CHOONG</td>
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<td>16:42</td>
<td>Anterior Segment Developmental Anomalies</td>
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<td>Kanwal “Ken” NISCHAL</td>
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<td>16:54</td>
<td>Managing Thygesons SPK in Children</td>
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<td>Vishal JHANJI</td>
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<tr>
<td>17:06</td>
<td>Juvenile Glaucoma: Pedigrees and Treatment</td>
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<td>Viney GUPTA</td>
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<tr>
<td>17:18</td>
<td>My Four Tips for Successful Cataract Surgery in Patients Under 2 Years</td>
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<td>Sudarshan KHOKHAR</td>
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<td>17:30</td>
<td>Managing BKC in Children: Medical and Surgical Aspects</td>
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<tr>
<td></td>
<td>Donald TAN</td>
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<td>17:42</td>
<td>Panel Discussion</td>
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### Mar 2, 2017 (Thu)

**Cataract**

**Endophthalmitis Prevention Around the World**

This symposium features an international panel of speakers who will discuss the preferred practice patterns of endophthalmitis prevention following cataract surgery in their respective institutions, countries, or regions. The specific rationale for the prevention regimen and the incidence of endophthalmitis will also be discussed. Additional topics include the limitations and potential complications of intracameral use, including the much dreaded TASS and HORV. The symposium ends with a
panel discussion on the practice and controversies of intracameral use in their countries and the choice of the best intracameral antibiotic.

09:00 - 10:30 Venue: Hall 405BX
Chair(s): Tat Keong CHAN, Taraprasad DAS, Andrzej GRZYBOWSKI

09:00 Introduction Tat Keong CHAN
09:05 Practice Patterns in Endophthalmitis Prevention in India Taraprasad DAS
09:12 Practice Patterns in Endophthalmitis Prevention in China Yong ZHONG
09:19 Practice Patterns in Endophthalmitis Prevention in Australia Jonathon NG
09:26 Practice Patterns in Endophthalmitis Prevention in Japan Yoshitsugu INOUE
09:33 Practice Patterns in Endophthalmitis Prevention in Europe and Pros and Cons of Intracameral Cefuroxime Andrzej GRZYBOWSKI
09:43 Intracameral Moxifloxacin Prophylaxis for Cataract Surgery at the Aravind Group of Eye Hospitals, Madurai, India Ravindran RAVILLA
09:50 Potential Complications and Pitfalls of Using Intracameral Antibiotics Tat Keong CHAN
10:00 Hemorrhagic Occlusive Retinal Vasculitis Association with Intraocular Vancomycin Prophylaxis David CHANG
10:10 Panel Discussion: Practice and Controversies
10:20 Panel Discussion: Which Intracameral Antibiotic Is the Best?

Clinical Decision-Making with Cataract Complications—Video Case Studies: “You Make the Call”
A series of video cases involving cataract and IOL surgical complications will be presented. The videos will be paused at specific points at which the audience will vote (with audience response pads) on management decisions. The options will then be discussed by an expert panel who, like the audience, has not seen the cases. Two different panels of international faculty will rotate halfway through the session.

11:00 - 12:30 Venue: Hall 405BX
Chair(s): David CHANG, Mun Wai LEE, Seng Ei TI
11:00 Unhappy Multifocal IOL Patient David CHANG
11:11 Panel Discussion Robert ANG, Daniel BLACK, Gaurav LUTHRA, Hung Yuan LIN
11:18 Misaligned Toric IOL David CHANG
11:29 Panel Discussion Robert ANG, Daniel BLACK, Gaurav LUTHRA, Hung Yuan LIN
11:36 Rock Hard Nucleus and Fixed Pupil (One-Eyed Patient) David CHANG
11:47 Panel Discussion Athiya AGARWAL, Y.C. LEE, Mun Wai LEE, Vladimir PFEIFER, Hungwon TCHAH
11:54 Traumatic Cataract David CHANG
12:05 Panel Discussion Athiya AGARWAL, Y.C. LEE, Mun Wai LEE, Vladimir PFEIFER, Hungwon TCHAH
12:12 Rapid Cataract Post-Vitrectomy David CHANG
12:23 Panel Discussion Athiya AGARWAL, Y.C. LEE, Mun Wai LEE, Vladimir PFEIFER, Hungwon TCHAH

Cornea, External Eye Diseases & Eye Bank
Penetrating Keratoplasty, Lamellar Keratoplasty, and Anterior Segment Reconstruction
09:00 - 10:30 Venue: Nicoll 1
Chair(s): Marcus ANG, Michael BELIN, Charles MCGHEE
09:00 Risk Stratification to Minimize Anterior Segment Complications Bia KIM
09:10 Surgical Techniques to Minimize PK Surgical Complications Marian MACSAI
09:20 Decision Paradigm to Decide on PK vs Anterior Lamellar Keratoplasty Mohammed ZIAEI
SCIENTIFIC PROGRAM SCHEDULE
INVITED SYMPOSIUMS

09:30 Managing Acute Chemical Injuries of the Cornea and Conjunctiva
Alexandra CRAWFORD

09:40 Anterior Segment Reconstruction: Dealing with the Compromised IRIS and Lens
Charles MCGHEE

09:50 Anterior Segment Reconstruction: The Roles of Keratoprostheses
Michael BELIN

10:00 Panel Discussion

DSAEK and DMEK: Evolving Indications, Procedures, and Success

11:00 - 12:30 Venue: Nicoll 1
Chair(s): Rajesh FOGLA, Shigeru KINOSHITA, Donald TAN

11:00 Manual DSEK Techniques
Samar BASAK

11:12 DSAEK Insertion Techniques – An Update
Kohji NISHIDA

11:24 DSAEK or DMEK? Show Me the Evidence!
Marcus ANG

11:36 DMEK in Asian Eyes
Rajesh FOGLA

11:48 Hybrid DMEK: Performing DMEK Using DSAEK Techniques
Donald TAN

12:00 Corneal Endothelial Cell Injection Therapy: No More EK?
Shigeru KINOSHITA

12:12 Panel Discussion

Gene and Stem Cell Therapy for Glaucoma: Where Do We Stand?
Paul KAUFMAN

Combating Fibrosis with Prolonged Gene Silencing Using a Nanoparticle Carrier
Tina WONG

Non-Invasive Treatment of Ocular Symptoms of Neurodegenerative Conditions
Wei-Wei CHANG

Primary SLT for POAG/OHT
Gus GAZZARD

Comparison of Subjective and Objective Adherence in Glaucoma Therapy
Tomasz ZARNOWSKI

Gene Therapy Eye Drops for Glaucoma?
Paul HEALEY

Alternative Therapies in Glaucoma: Myth or Fact
Liza Sharmini AHMAD TAJUDIN

Future Medical Therapy
Many innovations in medical therapy for glaucoma are on the short, medium, and long-term horizons. This symposium will provide snapshots into all 3 windows, using biological, mechanical, and behavioral exmplars. Enjoy!

09:00 - 10:30 Venue: Hall 405E
Chair(s): Paul HEALEY, Paul KAUFMAN, Leonard YIP

09:00 Gene and Stem Cell Therapy for Glaucoma: Where Do We Stand?
Paul KAUFMAN

09:10 Combating Fibrosis with Prolonged Gene Silencing Using a Nanoparticle Carrier
Tina WONG

09:20 Non-Invasive Treatment of Ocular Symptoms of Neurodegenerative Conditions
Wei-Wei CHANG

09:30 Primary SLT for POAG/OHT
Gus GAZZARD

09:40 Comparison of Subjective and Objective Adherence in Glaucoma Therapy
Tomasz ZARNOWSKI

09:50 Gene Therapy Eye Drops for Glaucoma?
Paul HEALEY

10:00 Alternative Therapies in Glaucoma: Myth or Fact
Liza Sharmini AHMAD TAJUDIN

10:10 Panel Discussion

Genetics-Molecular Biology
This session will give an overview of the latest findings on glaucoma relevant genes and the latest approaches to potentially use these genes to advance treatment of the disease.

11:00 - 12:30 Venue: Hall 405E
Chair(s): Terete BORRAS, Michael HAUSER, Chiea Chuen KHOR

11:00 Early-Onset Glaucoma Genetics
Janey WIGGS

11:13 Association of miR-182 with High Tension Glaucoma in the NEIGHBORHOOD Study
Yutao LIU

11:26 Role of Rare Mutations in Eye Diseases
Chiea Chuen KHOR

11:39 Editing the Mouse Genome with CRISPR/Cas9 to Generate a Stiffness Model of Glaucoma
Terete BORRAS

11:52 Stem Cells for Future Glaucoma Therapy
Chun ZHANG

12:05 Genetics of Angle-Closure Glaucoma
Tin AUNG

12:18 Oxygen Extraction in Glaucoma
Leopold SCHMETTERER
Intraocular Inflammation, Uveitis & Scleritis

Emerging and Re-Emerging Infectious Uveitis
Emerging and re-emerging infectious uveitis pose challenges for the ophthalmologist related both to diagnosis and treatment. In this symposium, experts in the field will review the management of infectious forms of uveitis that include Zika virus-, dengue virus-, and chikungunya virus-associated uveitis; ocular syphilis; and ocular toxoplasmosis.

11:00 - 12:30 Venue: 308
Chair(s): Soon-Phaik CHEE, Joao FURTADO, Justine SMITH

11:00 Zika Virus-Associated Eye Disease in Neonates and Adults
Joao FURTADO

11:15 Intraocular Manifestations of Dengue Fever
Soon-Phaik CHEE

11:30 Chikungunya Virus Infections of the Eye
Padmamalini Mahendradas MAHENDRADAS

11:45 Uveitis in Syphilis
Peter MCCLUSKEY

12:00 Ocular Toxoplasmosis
Shwu-Jiuan SHEU

12:15 Translational Studies of Human Infectious Uveitis
Justine SMITH

Miscellaneous

APAO Leadership Development Program 2017-18 Orientation Class 1: Introduction to the APAO LDP
Open to APAO Leadership Development Program participants only.

09:00 – 10:30 Venue: 302
Chair(s): Catherine GREEN

09:00 Welcome to the APAO Leadership Development Program
Catherine GREEN

09:10 Welcome from the APAO Secretary-General
Clement THAM

09:20 Introduction to the APAO Leadership Development Program Part I and Introduction of the Class of 2017-18
Sidney GICHERU, Catherine GREEN, Shaheeda MOHAMED, Linda TSAI

10:00 Introduction to the APAO Leadership Development Program Part II
Sidney GICHERU, Catherine GREEN, Shaheeda MOHAMED, Linda TSAI

AAPPO Symposium: An Introduction for Busy Clinicians and Those in Early Career Stages on How to Become Involved In, and Understand, Research in Ophthalmology and Visual Sciences

11:00 - 12:30 Venue: Nicoll 3
Chair(s): Mingguang HE, Charles MCGHEE, Trevor SHERWIN

11:00 Getting Started: Finding Inspiration and Mentors for Research
Charles MCGHEE

11:10 Compiling, Analyzing, and Interpreting Your Data to Create the Best Paper
Mohammed ZIAEI

11:20 Basic Statistical Information for Publication and Avoiding Common Manuscript Mistakes
Bia KIM

11:30 Understanding Journal Impact Factors, Common Citation Indices, and Your H-Index
Trevor SHERWIN

11:40 How to Get Your Paper Published in a Quality Peer-Reviewed Journal
Alexandra CRAWFORD
11:50  How to Deal with Rejection and How to Revise Papers for Publication
       Helen DANESH-MEYER

12:00  Critical Analysis of Journal Articles and Writing Letters to the Editors
       Dennis LAM

12:10  Panel Discussion

APAO Plenary Session I

14:30 - 16:00  Venue: Hall 405BX
Chair(s):

14:30  Academia Ophthalmologica Internationalis Oration: Transforming Health Systems for the Future
       Chorh Chuan TAN

15:00  Singapore National Eye Centre’s Richard Fan Lectureship Award: An Update on Managing Refractory Macular Hole and Macula-Off Retinal Detachment
       Dennis LAM

15:30  The Confluence of Education and Clinical Care
       Bruce SPIVEY

APAO Plenary Session II

17:00 - 18:00  Venue: Hall 405BX
Chair(s):

17:00  College of Ophthalmologists Lectureship: The Coming of Age of Exfoliation Syndrome
       Robert RITCH

17:30  Jose Rizal Medal Lecture: The Singapore Corneal Transplant Study—25 Years of Evolution in Corneal Lamellar Surgery
       Donald TAN

Ocular Oncology & Pathology

APSOOP Symposium: Retinoblastoma and Other Childhood Tumors
The 2017 forefront of innovation to help children and families affected by retinoblastoma will be presented. Challenges in low resource countries with many affected children will be addressed and responded to with novel surgical approaches. Variations in the extent of disease associated with specific mutations will be clarified. Major steps forward to high quality evidence to support evidence-based care for retinoblastoma children point to an exciting future full of new solutions.

09:00 - 10:30  Venue: 308

Chair(s): Kenneth CHANG, Brenda GALLIE, Santosh HONAVAR

09:00  Surgical Approach to Refractory Retinoblastoma
       Junyang ZHAO

09:15  Recent Advances in the Management of Retinoblastoma
       Santosh HONAVAR

09:30  Challenges in the Management of Retinoblastoma in a Developing Country
       Bhavna CHAWLA

09:45  World Surveys and Outcomes
       Tero KIVELA

10:00  One Global Retinoblastoma Clinic: Equal Opportunities for All Children
       Brenda GALLIE

10:15  Low Penetrance and Variable Expressivity in Familial Hereditary Retinoblastoma
       Stefan SEREGARD

ICO Education Forum: Student, Faculty, and Program Evaluation
Every student, faculty member, and program can be improved. Improvement can only come through a process of evaluation that identifies strengths and weaknesses. This forum will discuss methods of evaluation relevant to each of these components of the ophthalmology educational process. New assessment tools will be described and provided via internet links.

09:00 - 10:30  Venue: 303
Chair(s): Karl GOLNIK, Helena FILIPE, Sunil MOREKER

09:00  ICO Education Forum: Student, Faculty, and Program Evaluation
       Karl GOLNIK

09:30  ICO Education Forum: Student, Faculty, and Program Evaluation
       Helena FILIPE

10:00  ICO Education Forum: Student, Faculty, and Program Evaluation
       Sunil MOREKER

EAO Symposium: Recent Advances in European Ophthalmology of Global Significance
This session will present 1) a review of the retrolenticular space (Berger space), its dimensions, dysgenesis, and anterior hyaloidal detachment, including real time OCT images during cataract surgery; 2) the most recent data coming from the
most recent studies on the Lumina Lens (Akkolens); 3) the role of size criteria in uveal melanoma such as the AJCC categories or mRNA/chromosome based tests in selecting high risk patients; 4) the future of ophthalmology; and 5) a review of the recent studies on endophthalmitis prophylaxis.

11:00 - 12:30 Venue: 303  
Chair(s): Andrzej GRZYBOWSKI, Joaquim MURTA, Marie-Jose TASSIGNON

11:00 Restoring Accommodation with Pseudophakic Intraocular Lenses: Is It Possible?  
Jorge ALIO

11:13 New Insights About the Anterior Vitreo-Lenticular Interface  
Marie-Jose TASSIGNON

11:26 Prognostication Based on the Biology of Uveal Melanoma  
Martine JAGER

11:39 IC3D Classification of Corneal Dystrophies: New Developments  
Tero KIVELA

11:52 Neuroadaptation: Myth or Reality?  
Joaquim MURTA

12:05 EBM in Endophthalmitis  
Andrzej GRZYBOWSKI

12:18 Ophthalmology the Day After Tomorrow  
Stefan SEREGARD

**Orbital and Oculoplastic Surgery**

**Orbital Surgery: A New Age with Cutting Edge Techniques**

09:00 - 10:30 Venue: 309  
Chair(s): Kee Siew FONG, Xianqun FAN, Geoffrey ROSE

09:00 Digital Workflow: Individualized Patient Solutions in Orbital Reconstruction  
Michael GRANT

09:12 Single-Stage Soft Tissue Reconstruction and Orbital Fracture Repair for Complex Facial Injuries  
Wei LU

09:24 Vertical Lid Split Orbitotomy to Medial Orbit  
Yoon-Duck KIM

09:36 Challenges in the Management of Orbital Vascular Lesions  
Lay Leng SEAH

09:48 Long-Term Complications of Different Porous Orbital Implants: A 21-Year Review  
Pei-Yuan SU

10:00 Navigation Assisted Surgical Management on Orbital Neurofibroma  
Renbing JIA

10:12 Malignant Orbital Tumors  
Geoffrey ROSE

**Lacrimal Surgeries: From Basics to the Advanced**

11:00 - 12:30 Venue: 309  
Chair(s): Jae Woo JANG, Sunny SHEN, Hunter YUEN

11:00 Essential Anatomy and Preoperative Assessment for DCR  
Livia TEO

11:12 Endocanalicularscope for Lacrimal Disease  
Reynaldo JAVATE

11:24 Silicone Tube in DCR: What Role Does It Serve?  
Caiwen XIAO

11:36 Flap in Endonasal DCR: Does It Help?  
Nattawut WANUMKARNG

11:48 Mitomycin C: When I Use It  
Chai-Teck CHOO

12:00 Management of Failed Endonasal DCR  
Kyung In WOO

12:12 Challenge of Acquired and Congenital Canalicular Disease  
David VERITY

12:24 When All Things Failed, What Next?  
Swati SINGH

**Pediatric Ophthalmology & Strabismus**

**Common Problems in Pediatric Ophthalmology**

09:00 - 10:30 Venue: Nicoll 3  
Chair(s): Pin Min LAM, Jason YAM, Kanxing ZHAO

09:00 Approach to Management of Childhood Allergic Conjunctivitis  
Grace WU

09:11 Approach to Congenital Cataract  
Siddharth AGRAWAL

09:22 Strabismus: Benign or Malignant?  
Julie LOK
09:33 Office-Based Evaluation for a Child with Nystagmus
Edward BUCKLEY

09:44 Clinical Approach to Functional Visual Loss in Children
Chong-Bin TSAI

09:55 Pediatric Ocular Trauma
Man Kit TONG

10:06 Update on the Management of Amblyopia
Fong Yee FOO

10:17 Imaging in Pediatric Ophthalmology
Cheryl NGO

Trials and Triumphs in Dealing with Orbit-Related Strabismus
The strabismus surgeon often has to deal with orbital diseases and their effects on extraocular muscles. This symposium addresses some of these major orbit-related challenges. Tips and pearls are offered by expert orbit and strabismus surgeons alike, along with a few case examples.

11:00 - 12:30 Venue: 328+329
Chair(s): Sonal FARZAVANDI, Miho SATO, Kimberley TAN

11:00 Opening Pandora’s Box: A Strabismus Surgeon in Orbit
Jan-Tjeerd DE FABER

11:08 Orbital Decompression (the Boost or the Bane) to Strabismus Surgery
Geoffrey ROSE

11:16 Is Resection Applicable in Restrictive Strabismus of Thyroid Eye Disease?
An-Guor WANG

11:24 Semi-Adjustable Suture Technique in Orbit-Related Restrictive Strabismus
Miho SATO

11:32 Can MRI Imaging of the Orbit Play a Role in Refractory Strabismus?
Giovanni MARCON

11:40 Periosteal Muscle Anchoring to the Medial Orbital Wall for Refractory Large-Angle Incomitant Squint
David VERITY

11:48 Eight in Eight Minutes: Eight Key Pearls in the Management of Restrictive Strabismus
Edward BUCKLEY

11:56 Visual Decline with Diplopia: Many Faces of Orbital Apex Syndrome
Jeong-Min HWANG

12:04 Pathetic Idiot or Idiopathic: Familial Orbital Inflammatory Syndrome
Kimberley TAN

12:12 Panel Discussion

Prevention of Blindness

ICO-WHO Symposium: How to Increase Resources for Eye Care Through Evidence-Based Advocacy
Experience and successes documented from various settings and countries will be shared and practical advice given on conducting effective advocacy, best practices, and often underutilized opportunities for securing increased resources for eye care. The session is directed to those leading ophthalmological and other eye care societies, leaders and managers of eye care delivery projects and research, as well as individual eye care professionals.

11:00 - 12:30 Venue: 304
Chair(s): Ivo KOCUR, Serge RESNIKOFF, Hugh TAYLOR

11:00 WHO Global Role in Enhancing Universal Eye Health: How Can Societies of Ophthalmology and Eye Care Providers Benefit?
Ivo KOCUR

11:10 What the International Council of Ophthalmology Does to Support National Societies’ Advocacy for Eye Health
Van Charles LANSINGH

11:20 New Health Insurance Conditions Favoring Increased Access to Eye Care, Especially for Glaucoma and Cataract: Experience from China
Ningli WANG

11:30 Each Country Has Room for Improvement in Resourcing Eye Care: Experience from Australia
Hugh TAYLOR

11:40 How We Mobilize Resources for Comprehensive Eye Care Services for Marginalized Communities: Experience from Nepal
Sanduk RUIT

11:50 Lessons Learned: Key Prerequisites for Successful Advocacy
Serge RESNIKOFF

12:00 Panel Discussion: How to Get Advocacy Right to Increase Resources for Eye Care at Your Workplace
Refractive Surgery

Refractive Surgery for Keratoconus: From Intrastromal Segments to Lens and Wavefront Excimer Laser Surgery
Refractive surgery for keratoconus has become an essential step when considering keratoconus treatment. From being totally banned before to the different indications that are appearing today, there has been a huge change in attitude towards this problem. During this symposium the different alternatives and outcomes that have been reported and the different surgical techniques for the refractive correction of keratoconus will be highlighted with their main indications or evidence in favor or against.

09:00 - 10:30 Venue: Nicoll 2
Chair(s): Jorge ALIO, Sri GANESH, Donald TAN

09:00 Clinical Pathway Decision for Refractive Surgery in Keratoconus: Nomograms Rohit SHETTY
09:13 Intrastromal Ring Segment Implantation Guided by Neural Network Information Jorge ALIO
09:26 SMILE Extra for Early Keratoconus Sheetal BRAR
09:39 Phakic IOLs for Keratoconus Alaa ELDANASOURY
09:52 Tissue Addition Technique with Crosslinkage for Keratoconus Sri GANESH
10:05 Topo Guided Crosslinking for Keratoconus John MARSHALL
10:18 Panel Discussion

Correction of High Myopia and Hyperopia: When Should We Go from the Cornea to the Lens?
In this interesting session, approaches for the correction of high myopia and hyperopia will be addressed. The limits of corneal refractive surgery for both high myopia and hyperopia and the indications for the different intraocular lenses available, as well as the adjustment of the indication depending on age and presbyopia, will be discussed. In these special groups, the position of IOL formulas is different than in standard cases; how to make the adjustment to approach emetropia will be addressed. The intraocular optical quality of extreme IOL powers will be shown and discussed. Refractive surgeons will find important new information in this innovative session, useful for immediate application in these special cases.

11:00 - 12:30 Venue: Nicoll 2
Chair(s): Jorge ALIO, Wee-Jin HENG, Gerard SUTTON

11:00 LASIK for High Myopia Cordelia CHAN
11:15 Treatment of High Myopia with LASIK Xtra Jerry TAN
11:30 Corneal Refractive Procedures: How Much Can the Cornea Really Take? Colin CHAN
11:45 Lens Exchange vs LASIK for Hyperopia in the Over 50s Jagadesh REDDY

12:00 Calculations of IOL Power for High Myopia and Hyperopia: The Challenge and the Solution Ramamurthy DANDAPANI
12:15 Optical Quality of Eyes Implanted with Extreme IOL Powers: Myopia and Hyperopia Jorge ALIO

Retina (Medical)

AMD and PCV

09:00 - 10:30 Venue: Hall 404A
Chair(s): Emily CHEW, Adrian KOH, Xiao Xin LI

09:00 Classification of AMD: Why Does It Matter? Gemmy CHEUNG
09:10 Non-Responders to Anti-VEGF Therapy in Exudative AMD Shibo TANG
09:20 PCV is a Subtype of Neovascular AMD Xiao Xin LI
09:30 Nutritional Supplements in AMD Emily CHEW
09:40 Dilemmas in Anti-VEGF Treatment of Wet AMD Tien-Yin WONG
09:50 Evidence-Based Management of PCV in 2017 Adrian KOH
10:00 Geographic Atrophy in AMD Usha CHAKRAVARTHY
10:10 How Are We Doing in Real-Life Treatment of Neovascular AMD? James TALKS
Diabetic Retinopathy and DME

11:00 - 12:30 Venue: Hall 404A
Chair(s): Paisan RUAMVIBOONSUK, Sobha SIVAPRASAD, Colin TAN

11:00 How Effective Is Telescreening in DR? R.V. Paul CHAN
11:10 Is the Automated DR Grading Ready for Clinical Use? Sobha SIVAPRASAD
11:20 Utility of Wide Field Imaging in DR Ian YEO
11:30 Measurement of Foveal Avascular Zone Using OCT-A as a Predictor for Treatment Outcomes Marten BRELEN
11:40 Individualized Anti-VEGF Treatment for DME Paul MITCHELL
11:50 Can Micropulse Laser Reduce DME Treatment Burden? Victor CHONG
12:00 Management of Treatment-Resistant Diabetic Macular Edema Andrew CHANG
12:10 DME Trials: Applying Them to Clinical Practice Neil BRESSLER
12:20 Questions & Answers

Visual Sciences

APSEG Symposium: Personalized Medicine and Big Data

09:00 - 10:30 Venue: 310
Chair(s): Li Jia CHEN, Ching-Yu CHENG, Janey WIGGS

09:00 Machine Learning and Medicine Robert CHANG
09:12 Identifying New Genes for Age-Related Macular Degeneration: Candidate Gene Analysis in the Big-Data Era Li Jia CHEN
09:24 “One Size Fits All” No Longer: The Advent of Personalized Medicine Pirro HYSI
09:36 Computational Challenges in Analyzing Eye Data Paul BAIRD
09:48 Primary Open Angle Glaucoma Genetics: New Insights into Disease Mechanisms and Translational Opportunities Janey WIGGS

Retina (Surgical)

Surgical Technique: Tips and Tricks
Ophthalmology as a surgical specialty has been recognized since 2000 BC. Jules Gonin reported the first successful retinal reattachment surgery (ignipuncture) in 1919. Machemer performed the first pars plana vitrectomy in 1070. With better understanding of pathoanatomy; improved technology, instrumentation, and surgical techniques; and accumulated experience, indications for vitrectomy have expanded many fold over the past 4 decades. Management of a wide spectrum of VR conditions with clues to achieve better outcomes will be the focus of these video-based presentations.

09:00 Conquer the Demon: Expulsive Hemorrhage Sundaram NATARAJAN
09:09 Fovea-Sparing ILM Peeling for Traction Maculopathy Tzyy-Chang HO
09:18 New Indicator for Inner Retina Damage in Patients with Epiretinal Membrane Kyu Hyung PARK
09:27 Intraoperative OCT Hiroko TERASAKI
09:36 Your Worst Nightmare Kenneth FONG
09:45 Questions & Answers
10:03 Macular Surgery for iOCT or iOCT Guided Surgery for Submacular Hemorrhage Makoto INOUE
10:12 Complete Removal of Heavy Liquid Philip POLKINGHORNE
10:21 Questions & Answers
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tr>
<td>10:00</td>
<td>Precision Medicine in Ophthalmology and Genetic Counseling</td>
<td>Govindasamy KUMARAMANICKAVEL</td>
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<tr>
<td>10:12</td>
<td>A Precision Medicine Approach to Reduce Glaucoma Blindness: Translational Outcomes from the Australian and New Zealand Registry of Advanced Glaucoma</td>
<td>Jamie CRAIG</td>
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<td>10:24</td>
<td>Questions &amp; Answers</td>
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<td>09:00</td>
<td>Challenging Cataract/Complicated Cataract Case 1 (Accommodators Team)</td>
<td>Ronald YEOH</td>
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<td>09:04</td>
<td>Challenging Cataract/Complicated Cataract Case 2 (Accommodators Team)</td>
<td>Gaurav LUTHRA</td>
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<td>09:08</td>
<td>Challenging Cataract/Complicated Cataract Case 3 (Accommodators Team)</td>
<td>Hungwon TCHAH</td>
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<td>09:12</td>
<td>Challenging Cataract/Complicated Cataract Case 4 (Accommodators Team)</td>
<td>Boris MALYUGIN</td>
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<td>09:16</td>
<td>Challenging Cataract/Complicated Cataract Case 1 (Multifocal Team)</td>
<td>Jorge ALIO</td>
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<td>09:20</td>
<td>Challenging Cataract/Complicated Cataract Case 2 (Multifocal Team)</td>
<td>Marie-Jose TASSIGNON</td>
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<td>09:24</td>
<td>Challenging Cataract/Complicated Cataract Case 3 (Multifocal Team)</td>
<td>George BEIKO</td>
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<td>09:28</td>
<td>Challenging Cataract/Complicated Cataract Case 4 (Multifocal Team)</td>
<td>Toshihiko OHTA</td>
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<td>09:32</td>
<td>Challenging Cataract/Complicated Cataract Case 1 (Divide and Conquer Team)</td>
<td>Mohan RAJAN</td>
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<td>09:36</td>
<td>Challenging Cataract/Complicated Cataract Case 2 (Divide and Conquer Team)</td>
<td>Abhay VASAVADA</td>
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<td>09:40</td>
<td>Challenging Cataract/Complicated Cataract Case 3 (Divide and Conquer Team)</td>
<td>John CHANG</td>
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<tr>
<td>09:44</td>
<td>Challenging Cataract/Complicated Cataract Case 4 (Divide and Conquer Team)</td>
<td>Athiya AGARWAL</td>
</tr>
<tr>
<td>09:48</td>
<td>Challenging Cataract/Complicated Cataract Case 1 (Capsular Bag Team)</td>
<td>Mahipal SACHDEV</td>
</tr>
<tr>
<td>09:52</td>
<td>Challenging Cataract/Complicated Cataract Case 2 (Capsular Bag Team)</td>
<td>Soon-Phaik CHEE</td>
</tr>
<tr>
<td>09:56</td>
<td>Challenging Cataract/Complicated Cataract Case 3 (Capsular Bag Team)</td>
<td>Rohit PARKASH</td>
</tr>
</tbody>
</table>

**Mar 3, 2017 (Fri)**

### Cataract

**Ophthalmic Premier League**

The Ophthalmic Premier League (OPL) symposium is akin to the American football league games but the OPL is connected to ophthalmology. The idea is to have 4 teams with 4 captains. Each team will sport their team jersey. Each team will have 4 members. Each team member will be given 4 minutes to show his/her most challenging cataract/complicated cataract case through videos. Each team will be given a total of 17 minutes. The automatic response system, if present, will allow the audience to vote for their favorite team. The judges will also be deciding on the winners. The categories are best entertainer, best video, and best team. The winning team will be awarded the APAO-OPL trophy.

09:00 - 10:30 **Venue: Hall 405BX**  
*Chair(s): Amar AGARWAL, Mun Wai LEE*

- **Role:** Chairman  
  **Shigeru KINOSHITA**

- **Role:** Chairman  
  **Gerd AUFFARTH**

- **Role:** Match Referee  
  **Harvey UY**

- **Role:** Judge  
  **Charles MCGHEE**

- **Role:** Match Referee  
  **Daniel BLACK**

- **Role:** Umpire  
  **Jodhbir MEHTA**

- **Role:** Judge  
  **Ronald KRUEGER**

- **Role:** Umpire  
  **Suber HUANG**
10:00  Challenging Cataract/Complicated Cataract Case 4 (Capsular Bag Team)
Ritika SACHDEV

**Refractive Cataract/IOL Surgery: My Top 5 Pearls**
Invited faculty each speak for 7 minutes on a practical topic relating to challenging refractive IOL situations. Each speaker will present their top 5 pearls for dealing with that situation. Instead of a traditional didactic talk, the speakers will present 5 key take-home points as concisely as possible. Panelists will then add their additional pearls. Each 7-minute talk is followed by 5 minutes of panel discussion and audience response polling.

11:00 - 12:30 **Venue: Hall 405BX**
**Chair(s): David CHANG, Dennis LAM, Ronald YEOH**

11:00  Astigmatic Keratotomy
George BEIKO

11:07  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

11:12  Toric IOL Challenges
Daniel BLACK

11:19  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

11:24  Managing Presbyopia with IOLs
Robert ANG

11:31  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

11:36  Multifocal IOL Patient Selection
Hungwon TCHAH

11:43  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

11:48  Post-LASIK Patients
Han-Bor FAM

11:55  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

12:00  Postoperative Refractive Enhancement: Who, When, and How?
Marian MACSAI

12:07  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

12:12  Managing Unhappy Refractive IOL Patients
Patrick VERSACE

12:19  Panel Discussion
Gerd AUFFARTH, John CHANG, Jerry TAN, Abhay VASAVADA

**IOL Fixation with Deficient Capsular Support**
Deficient lens capsular support can be found in different pathological eye conditions. It can be primary, eg, a congenital eye disease that can only worsen with time, but it also can be acquired. Traumatic zonular dialysis is the most common cause of weak zonular lens capsule support, but secondary iatrogenic zonular deficiency is not that rare. The aim of this symposium is to expose attendees to different techniques proposed in the literature to implant an IOL in the presence of weak zonular lens capsular support.

14:30 - 16:00 **Venue: Nicoll 2**
**Chair(s): Soon-Phaik CHEE, Boris MALYUGIN, Marie-Jose TASSIGNON**

14:30  Repair of IOL Dislocation/Capsule Bag Dislocation
Gerd AUFFARTH

14:45  Congenital Lens Dislocation in Adults
Soon-Phaik CHEE

15:00  Congenital Lens Dislocation in Pediatric Patients
Marie-Jose TASSIGNON

15:15  Repair After Traumatic Lens Dislocation
Boris MALYUGIN

15:30  Repair of Iris and Lens
Vladimir PFEIFER

15:45  Dislocated IOL: Management Pearls
Bhuvan CHANANA

**Pearls and Pitfalls for Selecting and Implanting Refractive IOLs**
Rising expectations for spectacle independence mean that the majority of cataract patients are also refractive patients. Although outcomes are generally excellent, an unhappy refractive cataract patient presents a major challenge. In this symposium, an international faculty discusses pearls for achieving patient satisfaction and avoiding common pitfalls with a variety of refractive IOL strategies. Because achieving patient satisfaction is as much art as science, ample time for panel discussion is planned.

16:15 - 18:00 **Venue: Hall 405BX**
**Chair(s): George BEIKO, John CHANG, Han-Bor FAM**
INVITED SYMPOSIUMS

SCIENTIFIC PROGRAM SCHEDULE

16:15 Pearls and Pitfalls of Hitting Emmetropia
Han-Bor FAM

16:28 Pearls and Pitfalls of Selecting Patients for Multifocal IOLs
Patrick VERSACE

16:41 Pearls and Pitfalls of Mixing and Matching Different Power Multifocal IOLs
Hungwon TCHAH

16:54 Pearls and Pitfalls of Extended Depth of Focus IOLs
Gerd AUUFFARTH

17:07 Pearls and Pitfalls of Pseudophakic Monovision
Kimiya SHIMIZU

17:20 Pearls and Pitfalls of Managing Dysphotopsia
George BEIKO

17:33 Pearls and Pitfalls of Managing Refractive IOLs if Posterior Capsular Tear Occurs
Kasu Prasad REDDY

17:46 Pearls and Pitfalls of Managing the Demanding Patient
David CHANG

09:00 - 10:30
definition: Nicoll 1
Chair(s): Louis TONG, Alvin YOUNG, Rohit SHETTY

09:00 Pediatric Blepharitis/Ocular Allergy
Sihem LAZREG

09:10 Future Directions in the Treatment of Allergic Eye Diseases
Colin CHAN

09:20 What’s Missing in Understanding Dry Eye?
Rohit SHETTY

09:30 Motivating People with Dry Eye
Louis TONG

09:40 Contemporary Management of Meibomian Gland Disease and Related Dry Eye
Stuti MISRA

09:50 Ocular Surface Irregularity and Tear Film Lipid Layer Thickness
Tommy CHAN

10:00 Post Surgery Dry Eye
Rushad SHROFF

10:10 Role of Antioxidant Agents for the Treatment of Dry Eye
Kyung Chul YOON

10:20 Panel Discussion

The Inflamed Ocular Surface: Pterygium, MMP, SJS, and Chemical Injury
This symposium will feature a panel of distinguished speakers from the Asia-Pacific region who will discuss the diagnosis, investigation, and treatment of ocular surface problems, ranging from commonly encountered conditions such as dry eyes and pterygia to serious blinding diseases such as Stevens-Johnson syndrome and chemical injuries.

11:00 - 12:30
definition: Nicoll 1
Chair(s): Wei Boon KHOR, Shigeru KINOSHITA, Alvin YOUNG

11:00 How to Diagnose Corneal Epithelial Stem Cell Deficiency
Sophie DENG

11:12 Severity Grading and Treatment of Chemical Injury
Vishal JHANJI

11:24 Treatment of Stevens-Johnson Syndrome
Chie SOTOZONO

11:36 Diagnosis and Treatment of Severe Dry Eye
Vilavun PUANGSRICHARERN

11:48 Treatment of Peripheral Ulcerative Keratitis
Zuguo LIU

12:00 Management of Recurrent Pterygium
Jodhbir MEHTA

12:12 Panel Discussion

Corneal Update Session
Knowledge in the field of corneal and ocular surface diseases is ever-evolving. This symposium will provide ophthalmologists with updates in the diagnosis and management of various corneal diseases, such as corneal dystrophies, ocular graft versus host disease, and recurrent herpetic simplex keratitis, as well as
applications of automated analysis of the corneal sub-basal nerve plexus. The APAO 2017 Nakajima Award lecture with perspectives on keratoconus diagnostics and collagen crosslinking will also be presented during this symposium.

14:30 - 16:00 Venue: Nicoll 1
Chair(s): Sayan BASU, Jean CHAI, Jodhbir MEHTA

14:30 Update on the New IC3D Classification of Corneal Dystrophies
Berthold SEITZ

14:40 Update on the Pathophysiology of Fuchs Endothelial Corneal Dystrophy
Jie ZHANG

14:50 Update on Management of Recurrent HSV Keratitis
Colin CHAN

15:00 Update on Applications of Automated Analysis of Corneal Sub-Basal Nerve Plexus
Stuti MISRA

15:10 Panel Discussion

15:30 Nakajima Award Lecture: Keratoconus Diagnostics and Corneal Collagen Crosslinking—Current Perspectives
Vishal JHANJI

Anterior Lamellar Keratoplasty: Applications, Techniques, and Outcomes

16:30 - 18:00 Venue: Nicoll 1
Chair(s): Anshu ARUNDHATI, Harminder DUA, Donald TAN

16:30 DALK vs PK: Show Me the Evidence!
Lim LI

16:42 Manual DALK Techniques
Rishi SWARUP

16:54 Anatomical Concepts of DALK Surgery
Harminder DUA

17:06 DALK for Extreme Ectasias
Rajesh FOGLA

17:18 DALK for Stromal Dystrophies and HSV Infection
Anshu ARUNDHATI

17:30 Panel Discussion

Glaucoma

Normal-Tension Glaucoma, Ocular Blood Flow, and the Brain: Part 1
This session features a panoply of topics, including the apoptotic death of retinal ganglion cells and potential avenues to prevent it; determination of ocular blood flow by applying optical coherence tomography angiography in patients with glaucoma; visualization and discussion of glaucoma-related changes in the choroid; the role of trans-lamina cribrosa pressure difference in the physiology and pathophysiology of the optic nerve head; glaucoma-related alterations in the brain classifying glaucoma as a brain disease; functional rehabilitation of glaucoma-related visual deficits by electric brain stimulation; and the influence of yoga and meditation as elements of traditional Indian medicine in glaucoma. The session covers a wide range of topics presented by opinion leaders from all over the world.

09:00 - 10:30 Venue: Hall 405E
Chair(s): Jaewan CHOI, Neeru GUPTA, Jost JONAS

09:00 Apoptosis and Retinal Ganglion Cell Death
Seok Hwan KIM

09:13 Measuring Ocular Blood Flow with OCT Angiography
Jaewan CHOI

09:26 Anterior and Posterior Choroid Changes in Glaucoma
Xiulan ZHANG

09:39 Trans-Lamina Cribrosa Pressure Difference and Anatomical Optic Nerve Head Aspects
Jost JONAS

09:52 Glaucoma: The Most Common Neurodegenerative Vision Disorder
Neeru GUPTA

10:05 Electrical Brain Stimulation for Glaucoma
Bernhard SABEL

10:18 Impact of Yoga and Meditation on the Brain in Glaucoma Patients
Muneeb FAIQ

WGA Symposium: Basic Course on Glaucoma Diagnosis

11:00 - 12:30 Venue: Hall 405E
Chair(s): Tin AUNG, C. Gustavo DE MORAES, Neeru GUPTA

11:00 10th WGA Consensus on the Diagnosis of Open-Angle Glaucoma: Key Messages
Neeru GUPTA
### SCIENTIFIC PROGRAM SCHEDULE

#### INVITED SYMPOSIA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:13</td>
<td>Examination of the Optic Disc</td>
<td>Jost JONAS</td>
</tr>
<tr>
<td>11:26</td>
<td>Gonioscopy</td>
<td>Paul FOSTER</td>
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<tr>
<td>11:39</td>
<td>Interpreting Visual Fields</td>
<td>C. Gustavo DE MORAES</td>
</tr>
<tr>
<td>11:52</td>
<td>IOP Measurements and Their Fallacies</td>
<td>Mani BASKARAN</td>
</tr>
<tr>
<td>12:05</td>
<td>Interpreting OCT Results</td>
<td>Jin Wook JEOUNG</td>
</tr>
<tr>
<td>12:18</td>
<td>Correlation of Structure and Function in the Clinical Setting</td>
<td>Ki Ho PARK</td>
</tr>
</tbody>
</table>

#### APGS Symposium: Angle Closure

**14:30 - 16:00 Venue: Hall 405E**

**Chair(s):** Seng-Kheong FANG, Prin ROJANAPONGPUN, Tetsuya YAMAMOTO

- **14:30** Role of Gonioscopy and Imaging in Evaluating Ritch’s Four Point Angle Closure and Beyond  
  Syril DORAIRAJ
- **14:43** Intraocular Pressure Fluctuation in Primary Angle Closure Glaucoma  
  Shaoying TAN
- **14:56** Appositional and Synechial Closures in PAC  
  Tetsuya YAMAMOTO
- **15:09** Surgical Treatment for Primary Angle Closure Glaucoma  
  Clement THAM
- **15:22** Argon Laser Peripheral Iridoplasty  
  Robert RITCH
- **15:35** RCT on Phaco-GSL vs Phaco Alone for PACG  
  Rahat HUSAIN
- **15:48** Why does Acute Primary Angle Closure Happen?  
  Xiulan ZHANG

#### Normal-Tension Glaucoma, Ocular Blood Flow, and the Brain: Part 2

**16:30 - 18:00 Venue: Hall 405E**

**Chair(s):** Toru NAKAZAWA, Lutz PILLUNAT

- **16:30** Ocular Perfusion Pressure in Glaucoma  
  Lutz PILLUNAT
- **16:42** In Vivo Imaging of Mitochondria in Axonal Transport  
  Masaru INATANI
- **16:54** Calcium Channel Blockers in NTG  
  Maneli MOZAFFARIEH
- **17:06** Vascular Risk Assessment for NTG Progression  
  Jaewan CHOI
- **17:18** Systemic Oxidative Stress and Blood Flow  
  Toru NAKAZAWA
- **17:30** Disc Hemorrhage in NTG: Vascular or Mechanical?  
  Ki Ho PARK
- **17:42** NTG: A Kind of “Qi Deficiency” Disease  
  Ningli WANG

#### Intraocular Inflammation, Uveitis & Scleritis

**Diagnosis and Management of Non-Infectious Uveitis**

Non-infectious uveitis, which is due to autoimmune and autoinflammatory causes or associated with other systemic disorders, is one of the most important vision-threatening diseases in the world. It mainly affects young adults and often appears as a recurrent or chronic disease. How to diagnose and manage non-infectious uveitis is always of the greatest concern for the ophthalmologist. Here, we invite 6 famous experts in non-infectious uveitis to share their expertise on the diagnostic and therapeutic approaches to this disease.

**09:00 - 10:30 Venue: 308**

**Chair(s):** Anita CHAN, Timothy LAI, Peizeng YANG

- **09:00** Diagnosis and Management of HLA-B27 Associated Uveitis  
  Anita CHAN
- **09:15** Diagnosis and Management of Intermediate Uveitis  
  Danny NG
- **09:30** Diagnosis and Management of Sarcoidosis  
  Manabu MOCHIZUKI
- **09:45** Diagnosis and Management of Behcet Disease  
  De-Kuang HWANG
- **10:00** Diagnosis and Management of Vogt-Koyanagi-Harada Disease  
  Peizeng YANG
- **10:15** Diagnosis of Management of Multifocal Choroiditis  
  Hyeong Gon YU
Infectious and Non-Infectious Scleritis: Local and Systemic Interventions

Diagnosis of infectious scleritis and differentiation of these scleral inflammations from those mediated primarily by autoimmune processes requires in depth systemic review of the patient’s health combined with clinical features of scleritis and systemic disorders. This symposium focuses on highlighting clinically relevant details of the local and systemic diseases associated with scleral inflammations and their clinical presentations, diagnostic features, and current local and systemic treatments with antimicrobials and immunomodulatory agents.

16:30 - 18:00 Venue: 308
Chair(s): Su Ling HO, Uwe PLEYER, Narsing RAO

16:30 Clinical Features of Non-Infectious Scleritis and Sclerokeratitis
Peter MCCLUSKEY

16:42 Clinical Features of Infectious Scleritis
Somasheila MURTHY

16:54 Systemic Disease Associations of Scleritis: What Are They? How Are They Diagnosed?
Shishir NARAIN

17:06 Ocular Imaging and Its Role in Scleritis
Padmamalini Mahendradas MAHENDRADAS

17:18 Immunomodulatory Interventions in Management of Non-Infectious Scleritis
Uwe PLEYER

17:30 Local Treatment of Non-Infectious Non-Necrotizing Scleritis
Narsing RAO

17:42 Questions & Answers

Neuro-Ophthalmology

Neuro-Ophthalmology Emergencies You Do Not Want to Miss

Neuro-ophthalmic symptoms and signs are the key to diagnosing certain systemic conditions that are considered true emergencies, such as giant cell arteritis, increased intracranial pressure with papilledema, and acute third cranial nerve palsy secondary to intracranial aneurysm. In this symposium, we feature the management of these neuro-ophthalmology emergencies. Prompt recognition is critical to facilitate expeditious management, which in some cases will save patients’ lives and vision.

09:00 - 10:30 Venue: 309
Chair(s): Celia CHEN, Walter JAY, Dan MILEA

09:00 Acute, Painful Horner Syndrome
Karl GOLNIK

09:15 Acute Bilateral Papilledema with Visual Field Loss
Celia CHEN

09:30 Acute Visual Loss in Elderly
An-Guor WANG

09:45 Acute, Painful Oculomotor Nerve Palsy
Dean CESTARI

10:00 Amaurosis Fugax
Clement TAN

10:15 Perioperative Visual Loss in Non-Ocular Surgery
Neil MILLER

Controversies in Neuro-Ophthalmology

The management of certain neuro-ophthalmic conditions remains controversial: stenting for cerebral venous stenosis; systemic corticosteroids for nonarteritic anterior ischemic optic neuropathy; neuroimaging for all isolated cranial nerve palsies; systemic corticosteroids for all cases of ocular myasthenia gravis to prevent generalization; any effective therapy for traumatic optic neuropathy; any effective therapy for central retinal artery occlusion. This session will include pro and con arguments for each controversy.

11:00 - 12:30 Venue: 309
Chair(s): Anthony ARNOLD, Jing-Liang LOO, Neil MILLER
11:00  Stenting for Cerebral Venous Stenosis (Pro)  
Neil MILLER

11:07  Stenting for Cerebral Venous Stenosis (Con)  
Prem SUBRAMANIAN

11:14  Corticosteroids for NAION (Pro)  
Anthony ARNOLD

11:21  Corticosteroids for NAION (Con)  
Dan MILEA

11:28  Neuroimaging for Isolated Cranial Neuropathies (Pro)  
Karl GOLNIK

11:35  Neuroimaging for Isolated Cranial Neuropathies (Con)  
Sharon TOW

11:42  Corticosteroids for MG to Prevent Generalization (Pro)  
Carmen CHAN

11:49  Corticosteroids for MG to Prevent Generalization (Con)  
Walter JAY

11:56  Treatment of Traumatic Optic Neuropathy (Pro)  
Clare FRASER

12:03  Treatment of Traumatic Optic Neuropathy (Con)  
Anthony ARNOLD

12:10  Treatment for Acute Central Retinal Artery Occlusion (Pro)  
Celia CHEN

12:17  Treatment for Acute Central Retinal Artery Occlusion (Con)  
Francois-Xavier BORRUAT

Common Neuro-Ophthalmology Clinical Scenarios  
In this symposium, we offer hands-on tips on how to manage common clinical scenarios faced by general ophthalmologists and neuro-ophthalmologists, including how to distinguish retinopathy from optic neuropathy, true from pseudo disc swelling, and glaucoma from non-glaucomatous optic neuropathies. There will also be practical advice on how to handle intermittent diplopia, optic neuritis, and patients with tunnel visual fields. Included in this symposium is a special Singapore Society of Ophthalmology lecture on neuroretinitis.

16:30 - 18:00 Venue: 309  
Chair(s): Carmen CHAN, Karl GOLNIK, Sharon TOW

16:30  Singapore Society of Ophthalmology Named Lecture: Neuroretinitis—Challenges in Diagnosis and Management  
Wan Hazabbah WAN HITAM

16:50  Is It a Retinopathy or Optic Neuropathy?  
Clare FRASER

17:01  Intermittent Diplopia: Is It Myasthenia or Something Else?  
Prem SUBRAMANIAN

17:12  How to Differentiate True Disc Edema from Pseudopapilledema  
Sophia CHUNG

17:23  Optic Neuritis: Is It MS-Related or Other Optic Nerve Inflammation?  
Sharon TOW

17:34  Glaucomatous vs Non-Glaucomatous Optic Neuropathy  
Francois-Xavier BORRUAT

17:45  9 Causes of “Tunnel” Visual Field  
John CROMPTON

Ocular Imaging

Clinical Applications of Anterior Segment Imaging  
11:00 - 12:30 Venue: 328+329  
Chair(s): Marcus ANG, Dipika PATEL, Mark WILKINS
11:00 Novel OCT Angiography Techniques for the Cornea
Marcus ANG

11:18 Higher Order Aberrations and Corneal Haze in Fuchs Endothelial Dystrophy
Sanjay PATEL

11:36 The Role of Corneal In Vivo Confocal Microscopy in the Management of Systemic Disease
Ellen WANG

11:54 Imaging Ocular Biomechanical Properties
Dipika PATEL

12:12 In Vivo Confocal Microscopy of the Postsurgical Cornea
Akira KOBAYASHI

Emerging Ocular Imaging Technologies: From Bench to Bedside

16:30 - 18:00 Venue: 328+329
Chair(s): Christopher LEUNG, Wai-Ching LAM, Leopold SCHMETTERER

16:30 Studying Neuroprotection with Diffusion Tensor Imaging of the Optic Nerve and Optic Tract
Kevin CHAN

16:45 Application of OCT-A in Management of Glaucoma Patients
Kurysheva NATALIA

17:00 Latest Advances in Imaging Ocular Blood Flow
Leopold SCHMETTERER

17:15 Two-Photon Metabolic Imaging of Retinal Ganglion Cells
Christopher LEUNG

17:30 Multi-Functional Jones Matrix OCT
Yoshiaki YASUNO

17:45 Latest Developments of OCT Applications in Glaucoma
Jin Wook JEOUNG

Ocular Oncology & Pathology

Advances in Ocular Pathology and Oncology
Ocular malignancies are often associated with very severe consequences: loss of vision as well as the disease being a potential cause of death. It is therefore of great importance that ophthalmologists know about the most up-to-date techniques to identify ocular malignancies, know what types of treatments are currently available, and can use this information to advise their patients about the newest approaches. Advances in orbital inflammation and the diagnosis and treatment of different ocular malignancies will be presented by a truly global faculty.

11:00 - 12:30 Venue: 308
Chair(s): Deepak EDWARD, Jabeed IQBAL, Martine JAGER

11:00 Immunostaining for IgG4+ Plasma Cells in Idiopathic Orbital Inflammation: Red Herring or White Elephant?
Kaustubh MULAY

11:11 Masquerade Syndrome
Jyotirmoy BISWAS

11:22 How to Extract DNA and RNA from Paraffin Tissues
Deepak EDWARD

11:33 Looking for New Therapies for Conjunctival Melanoma Metastases
Jinfeng CAO

11:44 Expression of Astrocyte Elevated Gene-1 in Retinoblastoma and the Clinical Significance
Bin LI

11:55 Prognostication in Uveal Melanoma: Does Genetic Information Improve the AJCC?
Martine JAGER

12:06 Ocular Brachytherapy: Recent Advances
Arun SINGH

12:17 High-Field MRI for Uveal Melanoma: 3D Tumor Visualization with Direct Relevance for Treatment Planning
Jan-Willem BEENAKKER

Uveal Melanoma in Asians
Uveal melanoma affects predominantly white Caucasians. Nevertheless, a not insignificant number of patients are Asians. The characteristics of their tumors have not been well covered in world literature. This symposium will bring together clinicians managing uveal melanoma across Asia with the intent of quadrupling our knowledge of this cancer on this particular continent.

14:30 - 16:00 Venue: 308
Chair(s): Swathi KALIKI, Tero KIVELA, Gangadhara SUNDAR

14:30 Uveal Melanoma in the Asia-Pacific: An Overview
Marten BRELEN
### Invited Symposiums

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:42</td>
<td>Our Experience with Uveal Melanoma: Indonesia</td>
<td>Hendrian SOEBAGJO</td>
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<tr>
<td>14:54</td>
<td>Our Experience with Uveal Melanoma: Thailand</td>
<td>Duangnate ROJANAPORN</td>
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<tr>
<td>15:06</td>
<td>Our Experience with Uveal Melanoma: Malaysia</td>
<td>A R ROSNIZA</td>
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<tr>
<td>15:18</td>
<td>Myanmar Experience with Ocular and Adnexal Melanomas</td>
<td>Ko Ko LIN</td>
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<tr>
<td>15:30</td>
<td>Our Experience with Uveal Melanoma: Singapore</td>
<td>Gangadhara SUNDAR</td>
</tr>
<tr>
<td>15:42</td>
<td>Case Control Study of Uveal Melanoma in Asian vs Caucasian Patients</td>
<td>Arun SINGH</td>
</tr>
<tr>
<td>15:54</td>
<td>Case Control Study of Uveal Melanoma in India vs Europe</td>
<td>Swathi KALIKI</td>
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### Ophthalmic Education

**ICO Education Forum: Developing Critical Thinking Skills in Your Students**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>ICO Education Forum: Developing Critical Thinking Skills in Your Students</td>
<td>Eduardo MAYORGA, Ana PALIS, Meenakshi SWAMINATHAN</td>
</tr>
<tr>
<td>09:30</td>
<td>ICO Education Forum: Developing Critical Thinking Skills in Your Students</td>
<td>Ana PALIS</td>
</tr>
<tr>
<td>10:00</td>
<td>ICO Education Forum: Developing Critical Thinking Skills in Your Students</td>
<td>Meenakshi SWAMINATHAN</td>
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**ICO Education Forum: Managing Underperformance in Trainees—A Framework Towards Successful Remediation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:36</td>
<td>Thinking about Under-Performance</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
</tr>
<tr>
<td>14:48</td>
<td>Recognising a Problem: Characteristics of the Under-Performing Trainee</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
</tr>
<tr>
<td>15:00</td>
<td>Assessing the Problem</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
</tr>
<tr>
<td>15:12</td>
<td>The Role of Effective Feedback</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
</tr>
<tr>
<td>15:24</td>
<td>Formulating a Remediation Plan</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
</tr>
<tr>
<td>15:36</td>
<td>Addressing Lapses in Professionalism</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
</tr>
<tr>
<td>15:48</td>
<td>Tips for Developing and Maintaining a Remediation Program</td>
<td>Kathy CAO, Prashant GARG, Catherine GREEN</td>
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</tbody>
</table>

### Ophthalmic Epidemiology

**Updates on the Epidemiology, Associated Factors, and Genetics of Age-Related Macular Degeneration and Diabetic Retinopathy in Asia**

This symposium includes overviews of the prevalence, incidence, and associated factors of diabetic retinopathy, age-related macular degeneration, and other macular diseases in general in Asia and specifically in India, as well as a discussion of non-genetic factors for the development of diabetic retinopathy and age-related macular degeneration.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Prevalence, Incidence, and Associated Factors of Diabetic Retinopathy</td>
<td>Tien-Yin WONG</td>
</tr>
<tr>
<td>16:43</td>
<td>Age-Related Macular Degeneration: New Aspects in Epidemiology, Genetics, and Associated Factors</td>
<td>Paul MITCHELL</td>
</tr>
<tr>
<td>16:56</td>
<td>Macular Diseases in Asia: A Comparative Analysis</td>
<td>Ryo KAWASAKI</td>
</tr>
</tbody>
</table>
INVITED SYMPOSIUMS

SCIENTIFIC PROGRAM SCHEDULE

17:09 AMD and Diabetic Retinopathy in China: Presence and Future
Mingguang HE

17:22 Age-Related Macular Degeneration: Epidemiology and Associated Factors in India
Rajiv RAMAN

17:35 Non-Genetic Factors Associated with Diabetic Retinopathy and Age-Related Macular Degeneration and Clinical Impact
Jost JONAS

17:48 Prevalence and Associated Factors of Diabetic Retinopathy in India
Vinay NANGIA

Orbital and Oculoplastic Surgery

Eyelid Symposium 1: Pediatric—Future Challenges and Fresh Perspectives

09:00 - 10:30 Venue: 328+329
Chair(s): Peter DOLMAN, Tomoyuki KASHIMA, Lay Leng SEAH

09:00 The Colobomatous Eyelid
John HOLDS

09:12 The Congenital Droopy Eyelid
Yueh-Ju TSAI

09:24 Surgical Management of Congenital Ptosis and Its Complications
Xianqun FAN

09:36 The Best Ptosis Sling Material
Morgan YANG

09:48 The Mini Eyelids
Stephen NG

10:00 The Recurrent Epiblepharon Problems
Jae Woo JANG

10:12 The Anomalous Adnexal Unit
Dongmei LI

APSOPRS Symposium: The Cutting Edge of Thyroid Eye Disease
Given the unknowns in its pathoetiology, its distressing symptoms (often times in highly anxious patients), as well as its variable response to treatment options, thyroid eye disease (TED) frequently presents a management challenge to oculoplastic surgeons the world over. International collaborations such as the International Thyroid Eye Disease Society (ITEDS) have allowed for greater clarity and uniformity in clinical assessment of the TED patient and aided much in the selection of treatment options. In addition, surgical techniques have evolved to suit different populations, much to the benefit of patients with more severe disease. In this session, we present the most current strategies that will aid the clinician in navigating the complexities of this disorder.

14:30 - 16:00 Venue: 328+329
Chair(s): Peter DOLMAN, Audrey LOOI, Timothy SULLIVAN

14:30 Assessment of a Thyroid Eye Disease Patient
Raoul Paolo HENSON

14:37 Pathogenesis of TED
Jin Sook YOON

14:44 Steroids and Other Immunosuppressive Strategies
Timothy SULLIVAN

14:51 Radiotherapy in TED
Peter DOLMAN

14:58 Ethnic Variations of Bony Anatomy in Decompression
Sunny SHEN

15:05 Orbital Decompression Demystified
Audrey LOOI

15:12 Endoscopic Approach to Medial and Floor Decompression
Kelvin CHONG

15:19 Endoscopic Bone and Fat Decompression for TED Patients
Wencan WU

15:26 Orbital Roof Decompression
Tomoyuki KASHIMA

15:33 Stereotactic Navigation in TED
Huifang ZHOU

15:40 Managing Lid Retraction in TED
Hirohiko KAKIZAKI

15:47 Questions & Answers

Pediatric Ophthalmology & Strabismus

Retinopathy of Prematurity
This symposium looks at the current state of retinopathy of prematurity screening around the world and the challenges we are facing, particularly in developing countries. Some of the tools and techniques that may help us to address these problems will be discussed.

09:00 - 10:30 Venue: Nicoll 3
Chair(s): R.V. Paul CHAN, Yvonne LING, Justin MORA
09:00  ROP: Where Are We Now?  
Justin MORA

09:10  Establishing an ROP Screening Program in a Developing Country: Laos PDR  
James ELDER

09:20  Imaging Modalities for ROP Telemedicine and Digital Imaging  
R.V. Paul CHAN

09:30  A Review of the Database Options for Recording and Audit of ROP Findings  
Yvonne LING

09:40  Laser vs Avastin for ROP Rx in Developing Countries  
Laurence LIM

09:50  Management of ROP Recurrence After Avastin  
Felix CHAU

10:00  ROP from a Neonatologist’s Perspective: Oxygen Targets  
Varsha SHAH

10:10  Panel Discussion

Women in Ophthalmology Symposium: What’s Hot in Pediatric Cataract Management—Perspectives from the Asia-Pacific

In children, cataract causes more visual disability than any other form of treatable blindness. The management of pediatric cataracts is complex and challenging. Success requires a dedicated effort by a multidisciplinary team of health care professionals. In this symposium, experts will highlight tips for success and provide an update on the latest developments. Controversial issues such as IOL implantation in those less than 2 years old, role of anterior vitrectomy, and new concepts in visual rehabilitation will be discussed. Challenges unique to the Asia-Pacific region and strategies to overcome them will be addressed.

16:30 - 18:00  Venue: Nicoll 3  
Chair(s): Sonal FARZAVANDI, Ava HOSSAIN, Viraj VASAVADA

16:30  Important Pointers in Preoperative Evaluation of Pediatric Cataract  
Dharma IRUGALBANDARA

16:40  Challenges in Pediatric Cataract Management in Developing Countries  
Shovana ALAM

16:50  Surgical Paradigms for Pediatric Cataract Surgery  
Viraj VASAVADA

17:00  Complex Pediatric Cataracts  
Soon-Phaik CHEE

17:10  Complications of Pediatric Cataract Surgery  
Dorothy FAN

17:20  What’s the Latest in Pediatric Cataract Management?  
Marie-Jose TASSIGNON

17:30  Postoperative Rehabilitation for Pediatric Cataract Surgery  
Jane LOCK

17:40  Panel Discussion

Prevention of Blindness

Diabetic Retinopathy Screening Programs in Different Parts of the World

This symposium will review the current status of diabetic retinopathy screening in countries in Asia as well as Europe. The development, implementation, and results of diabetic retinopathy screening in these countries will be discussed. Advances and future approaches to diabetic retinopathy screening will also be covered.

11:00 - 12:30  Venue: 304  
Chair(s): Yuanbo LIANG, Ravindran RAVILLA, Gavin TAN

11:00  Introduction  
Ravindran RAVILLA

11:02  Diabetic Retinopathy Screening Programs in India  
Naresh KANNAN

11:16  Diabetic Retinopathy Screening Programs in Singapore  
Gavin TAN

11:30  Diabetic Retinopathy Screening Programs in China  
Ningli WANG

11:44  Diabetic Retinopathy Screening Programs in Japan  
Ryo KAWASAKI

11:58  Diabetic Retinopathy Screening Programs in Europe  
Andrzej GRZYBOWSKI

12:12  Panel Discussion
How to Increase Access to Cataract Surgery to Combat Cataract as the Leading Cause of Blindness in the World

According to the latest WHO estimates, unoperated senile cataract causes half of global blindness. The major challenge limiting the current efforts to substantially reduce prevalence of blindness due to cataract in some communities is insufficient access to high quality affordable cataract surgical service. Best practices in increasing access to cataract surgery and experiences of how individual eye care professionals can contribute locally and internationally will be shared and discussed.

14:30 - 16:00 Venue: 304
Chair(s): Marcus ANG, Ivo KOCUR, Ningli WANG

14:30 Introduction
Ningli WANG

14:32 Holmes Lecture: Blindness Profile and Rapid Assessment of Avoidable Blindness in Southeast Asia
Taraprasad DAS

14:47 Developing High-Volume and High-Quality Cataract Surgical Service
Ravindran RAVILLA

14:57 Hands-On Skill Transfer in Cataract Surgery Training
Rohit KHANNA

15:07 Improving and Monitoring Patient Safety and the Quality of Cataract Surgery
Richard ABBOTT

15:17 Cataract Surgery Postoperative Care and Follow-Up
Nathan CONGDON

15:27 High-Quality Cataract Surgical Coverage in Challenging Geographical Conditions: Himalayan Cataract Project
Sanduk RUIT

15:37 Eye Care Service Assessment, Target Setting, and Monitoring of Cataract Surgical Services: Where Are the Main Opportunities for Improvement?
Ivo KOCUR

15:47 Panel Discussion

Presbyopia Correction: Still No Perfect Solution

The holy grail in refractive surgery is the efficient and accurate correction of presbyopia. The fact that there remain so many treatments suggests that none are perfect. In this symposium we explore the current surgical treatment options for presbyopia including multifocal IOLs, presbylasik, and femtosecond laser options. The advantages and disadvantages of each option will be critically analyzed. In addition the panel will discuss future technologies that are coming down the technological pipeline.

09:00 - 10:30 Venue: Nicoll 2
Chair(s): Sri GANESH, Wee-Jin HENG, Gerard SUTTON

09:00 Many Options: No Perfect Solution?
Mahipal SACHDEV

09:15 Transitioning from Bifocals to Trifocals
Robert ANG

09:30 Can We Mix and Match Multifocal IOLs?
Han-Bor FAM

09:45 PresbyLASIK: Is It the Answer?
Sri GANESH

10:00 Intracor/Supracor: What For?
Kasu Prasad REDDY

10:15 Why Not Just Stick with Monovision?
Gerard SUTTON

Presbyopia Correction: Where We Are Today and Where We Are Going Next

Presbyopia correction is the holy grail of refractive surgery because it is something that every person will experience in their lifetime. Therefore, finding a safe and effective solution to satisfy the masses is our greatest challenge, especially with the many complexities associated with this disorder. This session highlights the current state-of-the-art presbyopia correction in the absence of lens replacement surgery and provides a glimpse into where we might be headed in the future.

11:00 - 12:30 Venue: Nicoll 2
Chair(s): Ronald KRUEGER, Hung-Ming LEE, Gerard SUTTON

11:00 Presbyopic Solutions with Small Aperture Technology
Robert ANG

11:12 Raindrop Cornea Inlay Technique
Julian THENG

11:24 Pharmacological Control of Presbyopia: Feasible?
Jorge ALIO

11:36 Is Laser Blended Vision the Future for Monovision LASIK?
Klaus DITZEN

11:48 Presbyia Inlays: Technique and Initial Results
Vardhaman KANKARIYA
12:00  Customized Aspheric Ablation Profile to Increase Corneal Asphericity (Q-Factor) for Presbyopia Correction  
Damien GATINEL

12:12  Can We Safely Restore Accommodation with Lens and Scleral Modification?  
Ronald KRUEGER

12:24  Questions & Answers

**ISRS Symposium: Pearls and Pitfalls in Contemporary Refractive Surgery—Matching Lasers and Lenses to Patients**

Contemporary refractive surgery offers a host of new technologies that require thoughtful selection and expert judgment during their implementation. Understanding the pearls and pitfalls in this process is essential for achieving excellent outcomes expected by patients. Since every patient encounter is uniquely different, this ISRS-led panel will highlight their expert opinions and experience in how to best match these laser and lens technologies with the patients they encounter.

14:30 - 16:15 **Venue: Hall 405BX**  
Chair(s): Jorge ALIO, Wei-Han CHUA, Ronald KRUEGER

14:30  LASIK vs PRK: What to Choose with a Suspicious Cornea and When?  
Ronald KRUEGER

14:45  Panel Discussion  
Jorge ALIO

14:50  LASIK vs SMILE: What to Choose and How High Can We Safely Go with Each?  
Sri GANESH

15:05  Panel Discussion  
Marcony SANTHIAGO

15:10  LASIK Xtra: Why and When Should We Choose This Option?  
Minoru TOMITA

15:25  Panel Discussion  
Ronald KRUEGER

15:30  What Can Go Wrong with My SMILE Procedure and What Should I Do Next?  
Osama IBRAHIM

15:45  Panel Discussion  
Rohit SHETTY

15:50  Corneal Inlay vs Presby-LASIK: What to Choose and When?  
Ioannis PALLIKARIS

16:05  Panel Discussion  
John CHANG

**SMILE: Preferred Technique for Myopia or Just Another Pretender?**

16:30 - 18:00 **Venue: Nicoll 2**  
Chair(s): Cordelia CHAN, Sri GANESH, Gerard SUTTON

16:30  SMILE: What, Where, How  
Cordelia CHAN

16:40  Is SMILE Better Biomechanically?  
Cynthia J ROBERTS

16:50  Is SMILE Better for Dry Eye?  
Jodhbir MEHTA

17:00  SMILE Visual Outcomes  
Rupal SHAH

17:10  SMILE Complications  
Sheetal BRAR

17:20  Pearls in the SMILE Learning Curve  
Gerard SUTTON

17:30  SMILE: Advanced Techniques  
Sri GANESH

17:40  Panel Discussion

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**Retina (Medical)**

**Advances in Endophthalmitis Management**

09:00 - 10:30 **Venue: Hall 404A**  
Chair(s): Taraprasad DAS, Shwu-Jiuan SHEU, Stephen TEOH

09:00  IVI Practice Patterns and Post-Injection Endophthalmitis  
Andrzej GRZYBOWSKI

09:11  Prophylactic Antibiotics for Intravitreal Injections: Should We Stop Using Them?  
Jun Shyan WONG

09:22  Endogenous Endophthalmitis  
Shwu-Jiuan SHEU

09:33  Is Intracameral Antibiotic a Standard of Care in Cataract Surgery?  
Taraprasad DAS

09:44  Does Small Gauge Vitreous Surgery Cause More Endophthalmitis?  
Derek KUNIMOTO
09:55 Are EVS Recommendations Valid After 2 Decades? 
Andrzej GRZYBOWSKI

10:06 Changing Antibiotic Sensitivity and Resistant Microorganisms 
Savitri SHARMA

10:17 Questions & Answers

ISCEV Symposium: Clinical Electrophysiology of Vision
This course will provide practical and comprehensive information on clinical electrophysiology of vision necessary not only for retina specialists but also general ophthalmologists. Topics will cover basic principles of electroretinogram (ERG) and visual evoked potential (VEP), ERG in inherited diseases, ERG in acquired and inflammatory retinal diseases, electrophysiology in macular dystrophy, and electrophysiology in children, followed by a panel discussion on difficult cases.

11:00 - 12:30 Venue: Hall 404A 
Chair(s): Audrey CHIA, Bo LEI, Shuichi YAMAMOTO

11:00 Basic Principles for ERG and VEP Bo LEI

11:15 ERG in Inherited Retinal Disease Young-Hoon OHN

11:30 ERG in Acquired and Inflammatory Retinal Disease Mineo KONDO

11:45 Electrophysiology in Macular Dystrophy Kaoru FUJINAMI

12:00 Electrophysiology for Children Audrey CHIA

12:15 Panel Discussion

Mystery Retinal Cases
Each speaker will present several diagnostically challenging cases, which will be discussed by the panel members. The appropriate workup and evaluation of the patients will be presented, along with differential diagnosis, treatment, and outcomes. Audience participation will be encouraged.

14:30 - 16:00 Venue: Hall 404A 
Chair(s): Michael CHILOV, Adrian KOH, William MIELER

14:30 Mystery Retinal Case 1 William MIELER

14:42 Mystery Retinal Case 2 Graham HOLDER

14:54 Mystery Retinal Case 3 Srinivas SADDA

15:06 Mystery Retinal Case 4 Lihteh WU

15:18 Mystery Retinal Case 5 Michael CHILOV

15:30 Mystery Retinal Case 6 Adrian FUNG

15:42 Mystery Retinal Case 7 Timothy LAI

Innovations in Retinal Disease Management
16:30 - 18:00 Venue: Hall 404A 
Chair(s): Jennifer KANG-MIELER, Augustinus LADE, Mandeep SINGH

16:30 National University Hospital Hong Leong Professorship Lecture: Retinal Stem Cell Therapy—It’s Here Timothy BLENKINSOP

16:50 Novel Drug Delivery Systems to the Posterior Segment Jennifer KANG-MIELER

17:02 3D Imaging Assisted Surgery Yusuke OSHIMA

17:14 Bionic Vision: Suprachoroidal Prosthesis Penelope ALLEN

17:26 Gene Therapy for Wet AMD Ian CONSTABLE

17:38 Retinal Stem Cell Transplantation and Their Potential Applications Mandeep SINGH

17:50 Questions & Answers

Retina (Surgical)
Macular Surgery
11:00 - 12:30 Venue: Nicoll 3 
Chair(s): Suber HUANG, Timothy LAI, Nikolle TAN

11:00 OCT Imaging in Macular Surgery Timothy LAI

11:08 Lamellar Hole Associated with Epiretinal Proliferation and in Highly Myopic Eyes Chung-May YANG

11:16 Current Management of Traumatic Macular Hole Wu LIU
INVITED SYMPOSIUMS

11:24 Semi-Circular Flap for Large, Chronic Macular Holes
San-Ni CHEN

11:32 Non-Touching Technique for Macular Hole
Xiaoxin LI

11:40 Current Evidence for the Treatment of Myopic Foveoschisis
Nikolle TAN

11:48 Questions & Answers

11:58 Autologous Transplantation of Sensory Retina for Chronic Macular Hole
Kazuaki KADONOSONO

12:06 Technique for Large Sub-Macular Transplants for Wet AMD and Retinitis Pigmentosa
Zhi Zhong MA

12:14 Subretinal Transplantation of Human Embryonic Stem Cell-Derived RPE Cells for Advanced Dry AMD: Case Series
Joo Yong LEE

12:22 Questions & Answers

Pediatric Retina Surgery
Pediatric retinal detachment is a special entity and has unique epidemiological and anatomical characteristics. Ocular trauma/surgery and congenital and developmental structural abnormalities are the commonest etiological factors in this age group. Higher incidence of bilateral involvement, delayed diagnosis, and generally poor functional outcome is the norm. This symposium will primarily focus on how to manage RD in select pediatric ocular disorders. The role of advanced technology and techniques in the management of these cases will also be discussed.

14:30 - 16:00 Venue: Nicoll 3
Chair(s): Pramod BHENDE, R.V. Paul CHAN, Lingam GOPAL

14:30 Comparison of UBM vs Scleral Transillumination for Determination of Safe Sclerotomy Sites in Young Children
Wai-Ching LAM

14:38 Intraoperative OCT Findings in Pediatric Vitreoretina Surgery
Shunji KUSAKA

14:46 Surgery for Retinoschisis-Related Retinal Detachment
Lingam GOPAL

14:54 Pediatric Retinal Detachment: Striving for the Best Outcome
Wei-Chi WU

15:02 Etiology of the Birth Retinal Hemorrhage
Darius MOSHPEGHI

15:10 Beginning ROP Surgery: Learning Logistics
Rajvardhan AZAD

15:18 Endoscopic Vitrectomy for Stage 4 Retinopathy of Prematurity
Sui Chien WONG

15:26 ROPER or FEVR?
Atchara AMPHORNPHRUET

15:34 Panel Discussion

Ocular Biology Including CRISPR

11:00 - 12:30 Venue: 300
Chair(s): Neena HAIDER, Shweta SINGHAL, Motokazu TSUJIKAWA

11:00 Photoreceptor Study Using Zebrafish Genetics
Motokazu TSUJIKAWA

11:15 Steps Towards Ophthalmic Applications of CRISPR/Cas DNA Editing
Alexander HEWITT

11:30 Electrophysiological Approach for Retina Function
Kenji MATSUSHITA

11:45 CRISPR/Cas9 Gene Editing in RP Patient iPSCs
Zi-Bing JIN

12:00 Application of Cellular Model of Fuchs Endothelial Corneal Dystrophy for Drug Development
Noriko KOIZUMI

12:15 Gene Modifiers as Novel Approaches to Gene Therapy for Retinitis Pigmentosa
Neena HAIDER

Advances in Retinal Biology Including Pediatric Conditions
This session will provide an overview of the latest advances in the understanding of the pathogenesis of a variety of retinal conditions. The topics will cover basic science as well as clinical and epidemiologic aspects and end with an overview of the current status of retinal cell therapy using induced pluripotent stem cells.
11:00 - 12:30 **Venue: 310**  
**Chair(s): Gemmy CHEUNG, Margaret DEANGELIS, Yoko OZAWA**

11:00 Advances in ROP  
*Inderjeet KAUR*

11:10 Inflammatory Responses in AMD Pathogenesis  
*Yoko OZAWA*

11:20 Clinical Features of Occult Macular Dystrophy  
*An-Guor WANG*

11:30 AMD  
*Kyu Hyung PARK*

11:40 Risk Factors and Diabetic Retinopathy  
*Gemmy CHEUNG*

11:50 Epigenetics Studies in Eye Disease  
*Margaret DEANGELIS*

12:00 Bestrophin: One Gene, Many Phenotypes  
*Anthony MOORE*

12:10 Retinal Cell Therapy Using iPS Cells  
*Masayo TAKAHASHI*

12:20 Questions & Answers

**APSEG Symposium: Update on Eye Genetics**

14:30 - 16:00 **Venue: 310**  
**Chair(s): Govindasamy KUMARAMANICKAVEL, Calvin PANG, Eranga VITHANA**

14:30 Genetics of Myopia  
*Calvin PANG*

14:48 Utility of Endophenotypes for Genetic Mapping of POAG  
*Ching-Yu CHENG*

15:06 PACG Genes and Disease Mechanisms  
*Eranga VITHANA*

15:24 International Collaborations to Identify Novel Genes Responsible for Hereditary Retinal Diseases in the Asian Population  
*Takeshi IWATA*

15:42 Genetics of Age-Related Cataract  
*Chris HAMMOND*

**Asian Eye Genetics Consortium**

There are still large gaps in our knowledge regarding the genetic makeup underlying both Mendelian and complex eye diseases in the Asian region. This in part reflects the diversity of populations across this region as well as the varied ascertainment of individuals from different countries. This symposium will showcase work undertaken by members of the Asian Eye Genetics Consortium (AEGC), which brings together leading researchers to provide a forum for education and enhance cooperation between members.

16:30 - 18:00 **Venue: 310**  
**Chair(s): Paul BAIRD, Sundaram NATARAJAN, Raj PATIL**

16:30 Prevalence of Ocular Genetic Disorders in Asia  
*Raj PATIL*

16:42 Genetic Characteristics of Korean RP Patients  
*Hyeong Gon YU*

16:54 NDP Polymorphism in ROP  
*Rita SITORUS*

17:06 GWAS of AMD and PCV in Thai Populations  
*Paisan RUAMVIBOONSUK*

17:18 Role of Genetics in Glaucoma Susceptibility and Progression in Malays  
*Liza Sharmini AHMAD TAJUDIN*

17:30 Multiplex Cytokine Analysis in the Aqueous Humor of Patients with Primary Angle Closure Glaucoma  
*Periasamy SUNDARESAN*

17:42 Functional Genomic Interactions in Congenital Glaucoma  
*Subhabrata CHAKRABARTI*

**Mar 4, 2017 (Sat)**

**Cataract**

**Complicated Phaco Cases: My Top 5 Pearls**
Invited faculty each speak for 7 minutes on a practical topic relating to challenging cases or complications. Each speaker will present their top 5 pearls for dealing with that situation. Instead of a traditional didactic talk, the speakers will present 5 key take-home points as concisely as possible. Panelists will then add their additional pearls. Each rapid fire 7-minute talk is followed by 5 minutes of panel discussion and audience response polling.

09:00 - 10:30 **Venue: Hall 405BX**  
**Chair(s): David CHANG,Soon-Phaik CHEE, Ramamurthy DANDAPANI**

09:00 Posterior Polar Cataract  
*Rohit PARKASH*
INVITED SYMPOSUMS

09:07  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

09:12  IFIS/Small Pupil
Marie-Jose TASSIGNON

09:19  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

09:24  Pseudoexfoliation/Weak Zonules
Boris MALYUGIN

09:31  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

09:36  Phaco with Glaucoma
Keith BARTON

09:43  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

09:48  Rock Hard Lens
Vladimir PFEIFER

09:55  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

10:00  Mature White Lens
Mohan RAJAN

10:07  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

10:12  Vitreous Loss: Anterior Vitrectomy
Seng Ei TI

10:19  Panel Discussion
Amar AGARWAL, Hung Yuan LIN, Gerard SUTTON, Ronald YEOH

New Technologies for Cataract Surgery
This symposium will showcase the latest intraocular lenses, injector systems, and capsulotomy options available.

11:00 - 12:30 Venue: Hall 405BX
Chair(s): Gerd AUFFARTH, Robert ANG, Seng Ei TI

11:00  New IOL Delivery Systems
Seng Ei TI

11:15  Trifocal IOLs: Are They All the Same?
Gerd AUFFARTH

11:30  Extended Depth of Vision IOLs
Daniel BLACK

11:45  Oculentis Multifocal IOLs
Yee Fong CHOONG

12:00  Harmoni Modular Lens
Robert ANG

12:15  Capsulotomy Options: Zepto, Capsulaser
David CHANG

Mastering Phaco Nightmares and Worst-Case Scenarios: A Video-Based Course
Phaco nightmares signify danger, and it is best to be prepared for such cases. Endocapsular rings for subluxated cataracts, prosthetic irides, and pupil expanders are secrets for mastering phaco surgery’s worst-case scenarios. Intraoperative floppy iris syndrome, IOL implantation in eyes with deficient capsules, and glued IOLs will all be explained. Vitreous loss, torn rrhexis management, and other complications will also be covered. Management of dropped lenses, hard cataracts, posterior capsular ruptures, and the like will all be explained with excellent videos. From basic complications to nightmare situations, all will be covered in this course.

14:30 - 16:00 Venue: Hall 405BX
Chair(s): Athiya AGARWAL, Amar AGARWAL, David CHANG

14:30  Introduction
Amar AGARWAL

14:32  Soft Cataracts Are Hard Cataracts
Ronald YEOH

14:42  Glued IOL and IOL Scaffold
Athiya AGARWAL

15:00  Phaco Nightmares
Amar AGARWAL

15:20  Posterior Capsular Ruptures
David CHANG

15:40  IOL Implantation in Eyes with Deficient Capsules
Soon-Phaik CHEE

15:50  Panel Discussion

Conquering the Rock Hard Cataract

16:30 - 18:00 Venue: Hall 405BX
Chair(s): Ravindran RAVILLA, Sanduk RUIT, Ronald YEOH

16:30  Challenges of the “Catarock”
Ronald YEOH
16:42 Corneal Protection—OVD/Viscoelastic—Pearls  
David CHANG

16:54 Phacoing the Rock Hard Cataract  
Abhay VASAVADA

17:06 Femtoing the Rock Hard Cataract  
Soon-Phaik CHEE

17:18 Manual Small Incision Cataract Surgery  
Sanduk RUIT

17:30 Strategies in the Developing World  
Ravindran RAVILLA

17:42 New Technologies for Dense Cataracts  
David CHANG

**Cornea, External Eye Diseases & Eye Bank**

**Tissue Engineering of the Cornea: Cells, Microstructure, and Surfaces**  
This symposium will cover new advances in cell therapy for the cornea. There have been significant advances in cornea cell therapy with regard to epithelial/stromal and more recently endothelial cell therapy. The symposium will cover current clinical treatments in epithelial cell therapy but also experimental advances in the use of iPSC and umbilical cord stem cells. Stromal and endothelial therapy are also reaching clinical trials; updates on these advances will be discussed.

09:00 - 10:30 **Venue: Nicoll 1**  
Chair(s): Sophie DENG, Shigeru KINOSHITA, Jodhbir MEHTA

09:00 iPSC Cells for Corneal Epithelial Regeneration  
Kohji NISHIDA

09:11 Cultivated Epithelial Stem Cell Reconstruction  
Sophie DENG

09:22 Corneal Spheres for Ocular Surface Reconstruction  
Trevor SHERWIN

09:33 Umbilical Cord Stem Cells for Corneal Regeneration  
Jie ZHANG

09:44 Stromal Stem Cell Therapy  
Sayan BASU

09:55 Endothelial Cell Therapy  
Hiroshi TANAKA

10:06 Regenerative Therapy for Fuchs Endothelial Dystrophy  
Jodhbir MEHTA

10:17 Panel Discussion

**Eye Banking 2017: International and Asia-Pacific Trends**  
This session is focused on eye banking and keratoplasty trends with specific emphasis on the Asia-Pacific region. The speakers represent active eye bank programs or associations throughout Asia. The presentations will include country specific updates of eye bank activity, best practices to increase eye donation, surgeon training, and specific technical aspects of tissue preparation and corneal storage.

11:00 - 12:30 **Venue: Nicoll 1**  
Chair(s): Howard CAJUCOM UY, Bernie ILLIAKIS, Namrata SHARMA

11:00 Eye Bank Association of India Update: 2015-2016  
Namrata SHARMA

11:10 Model Eye Bank for Developing Countries  
Samar BASAK

11:20 Comparative Study of Hospital Cornea Retrieval Programs in Asia  
Chia-Li PANG

11:30 Japanese Eye Banking: Update and Trends  
Naoshi SHINOZAKI

11:40 Surgeon Training Program: Increasing the Capacity of Keratoplasty  
Bernie ILLIAKIS

11:50 Multi-Year Analysis of Eye Bank Pre-Cut Tissue  
Louise MOFFATT

12:00 Antifungals in Cold Storage Media: Do We Need It and Does It Work?  
Bennie JENG

12:10 Panel Discussion

**Management of Ametropia and Astigmatism Post Graft**

14:30 - 16:00 **Venue: Nicoll 1**  
Chair(s): Marcus ANG, Charles MCGHEE, Rasik VAJAPYEE

14:30 Post-Keratoplasty Ametropia: Causes and Prevention  
Rasik VAJAPYEE
### INVITED SYMPOSIMS

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:40</td>
<td>Excimer vs Femtosecond Laser Trephination for Keratoplasty</td>
<td>Berthold SEITZ</td>
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<tr>
<td>14:50</td>
<td>Contact Lens Correction of Post-Keratoplasty Refractive Errors</td>
<td>Akilesh GOKUL</td>
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<tr>
<td>15:00</td>
<td>Non-Surgical Treatment of Post-Keratoplasty Ametropia</td>
<td>Michael BELIN</td>
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<tr>
<td>15:10</td>
<td>Relieving Incisions, Compression Sutures, and Wedge Excisions</td>
<td>Bia KIM</td>
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<tr>
<td>15:20</td>
<td>Phacoemulsification and Toric IOLs Following Keratoplasty</td>
<td>Charles MCGHEE</td>
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<tr>
<td>15:30</td>
<td>Secondary Sulcus IOLs</td>
<td>Mohammed ZIAEI</td>
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<tr>
<td>15:40</td>
<td>Keratorefractive Approaches: Excimer and Femtosecond Laser</td>
<td>Gerard SUTTON</td>
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<tr>
<td>15:50</td>
<td>Panel Discussion</td>
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**CORNEA Society Symposium: Keratoconus and Ectasias—Etiology, Diagnosis, and Management**

The diagnosis and management of corneal ectasias has undergone a paradigm shift in the past decade. Newer diagnostic methods have resulted in more accurate assessments of the condition for staging, classification, and prognostic purposes. In addition, new options for the management of corneal ectasias have evolved, including scleral contact lenses and corneal crosslinking. This symposium will provide a comprehensive overview of the new paradigm in the diagnosis and management of corneal ectasias.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</table>
| 16:30 - 18:00 | Venue: Nicoll 1  
Chair(s): Anshu ARUNDHATI, Michael BELIN, Bennie JENG |                                  |
| 16:30  | Keratoconus Staging, Classification, and Progression                                           | Michael BELIN                    |
| 16:40  | Current Treatment Paradigms in Cornea Ectasia                                                  | Bennie JENG                      |
| 16:50  | Corneal Crosslinking for Keratoconus                                                           | Gerard SUTTON                    |
| 17:00  | Intracorneal Ring Segments: When Do They Work and When Do They Not                            | Marian MACSAI                    |

**Quality of Life in Glaucoma**

Glaucoma is a chronic irreversible optic neuropathy which has a significant impact on different aspects of our patients’ daily life. As clinicians, our role in addressing the effect of glaucoma on the quality of life of our patients is as important as controlling disease progression. This symposium will take you into the world of glaucoma from a patient’s perspective.

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</table>
| 09:00 - 10:30 | Venue: Hall 405E  
Chair(s): Noel CHAN, Sek-Tien HOH, Ikke SUMANTRI |                                  |
| 09:00  | Can Trabeculectomy Keep the Visual Field for Life?                                             | Tetsuya YAMAMOTO                 |
| 09:10  | How to Monitor Progression in Eyes with Advanced Glaucoma                                      | Scott SMITH                      |
| 09:20  | Visual Outcome After Acute Primary Angle Closure                                               | Sek-Tien HOH                     |
| 09:30  | Even Early Glaucoma Affects How Patients Function                                               | David FRIEDMAN                   |
| 09:40  | New Approaches to Low Vision in Glaucoma Patients                                              | Noel CHAN                       |
| 09:50  | Utility Analysis of Vision-Related Quality of Life in Chinese POAG Patients                    | Chun ZHANG                      |
| 10:00  | Glaucoma Quality of Life Item Bank                                                             | Ecosse LAMOUREUX                 |
| 10:10  | Glaucoma in Pregnancy                                                                         | Md Nazrul ISLAM                  |
| 10:20  | Questions & Answers                                                                           |                                  |
## Complications and Rescue Operations in Glaucoma Surgery

Success in managing complications depends on an early and precise diagnosis, taking the best approach for the individual patient, and instituting preventative measures to decrease the risk of future complications. This HD video-based session will provide practical tips on managing intraoperative and postoperative complications in glaucoma surgery. The rescue operations covered in this symposium are relevant to a wide range of glaucoma procedures including MIGS, nonpenetrating glaucoma surgery, trabeculectomy, and tubes.

### 11:00 - 12:30 Venue: Hall 405E
Chair(s): Michael COOTE, Shamira PERERA, Velota SUNG

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Managing Hypotony After Tube Surgery</td>
<td>Velota SUNG</td>
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<tr>
<td>11:09</td>
<td>Wound Leaks and Overfiltration in Trabeculectomy</td>
<td>Prin ROJANAPONGPUN</td>
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<tr>
<td>11:18</td>
<td>Challenges in Deep Sclerectomy</td>
<td>Andre MERMOUD</td>
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<tr>
<td>11:27</td>
<td>How to Close a Cyclodialysis Cleft</td>
<td>Keith BARTON</td>
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<tr>
<td>11:36</td>
<td>MIGS: What Can Go Wrong</td>
<td>Tarek SHAARAWY</td>
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<tr>
<td>11:45</td>
<td>Treatment of Infections in Glaucoma Surgery</td>
<td>Shamira PERERA</td>
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<tr>
<td>11:54</td>
<td>Aqueous Misdirection and Suprachoroidal Hemorrhage</td>
<td>Lingam VIJAYA</td>
</tr>
<tr>
<td>12:03</td>
<td>Surgical Challenges—How Would You Manage?</td>
<td>Neha MIDHA</td>
</tr>
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</table>

### Questions & Answers

## AOI Symposium: New Understanding of Disease Mechanisms

Understanding of eye diseases has advanced from dependence on clinical findings, histopathology, ultrastructure, and medical-surgical treatment of disease with the purposes of suppression, amelioration, and stabilization to a new understanding of the genetic/genomic, proteomic, and biochemical underpinnings aided by ultrahigh resolution imaging, animal models, and CRISPR technology to the new horizon of disease prevention, reversal, and elimination with such modalities as stem cell therapy, gene editing, nanotechnology, and visual prosthetics. This symposium highlights some of these examples.

### 14:30 - 16:00 Venue: 308
Chair(s): Nag RAO, Robert RITCH, Marie-Jose TASSIGNON

<table>
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<tr>
<th>Time</th>
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<th>Presenter</th>
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<tbody>
<tr>
<td>14:30</td>
<td>AOI Lecture: Can a Retinal Examination Provide Insights into Stroke and Dementia?</td>
<td>Tien-Yin WONG</td>
</tr>
<tr>
<td>15:00</td>
<td>Who Is at Risk for Angle-Closure Glaucoma?</td>
<td>Tin AUNG</td>
</tr>
<tr>
<td>15:15</td>
<td>Unraveling Exfoliation Syndrome</td>
<td>Robert RITCH</td>
</tr>
<tr>
<td>15:30</td>
<td>New Insights About the Anterior Vitreo-Lenticular Interface. Unraveling a New Congenital Cataract Entity</td>
<td>Marie-Jose TASSIGNON</td>
</tr>
<tr>
<td>15:45</td>
<td>Lymphatic Drainage of the Eye Unraveled</td>
<td>Neeru GUPTA</td>
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</tbody>
</table>

## APAO-RANZCO Symposium: Tackling Changing Landscape and Emerging Challenges in Glaucoma Eye Care

The treatment of patients continues to be a rapidly evolving space driven in part by new technologies, the challenge to governments to fund health care, the personal costs for patients, and alternative options outside ophthalmology. RANZCO has considered these and is developing a new model of collaborative care, led by ophthalmology. The symposium will explain how this works and look at how it can improve the experience for doctors and patients, with a particular focus on glaucoma. There will be time for questions.

### 14:30 - 16:00 Venue: Hall 404A
Chair(s): Mark DANIELL, Bradley HORSBURGH, Boon Ang LIM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>14:30</td>
<td>Glaucoma Referral Guidelines for Optometry and Clarifying Scope of Practice</td>
<td>Bradley HORSBURGH</td>
</tr>
<tr>
<td>14:50</td>
<td>Patient-Centered and Inter-Professional Glaucoma Care: Challenges, Lessons Learned, and Opportunities</td>
<td>Catherine GREEN</td>
</tr>
<tr>
<td>15:10</td>
<td>Managing Increasing Cost of Healthcare and the Role of New Technology</td>
<td>Helen DANESH-MEYER</td>
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<tr>
<td>15:30</td>
<td>RANZCO’s Response to Managing Harassment and Bullying in the Profession</td>
<td>David ANDREWS</td>
</tr>
</tbody>
</table>

### Questions & Answers
ISGS Symposium: Glaucoma Surgery

14:30 - 16:00 Venue: Hall 405E
Chair(s): Keith BARTON, Paul CHEW, Tarek SHAARAWY

14:30 Innovations in Glaucoma Surgery
Neha MIDHA

14:41 Goniosynechialysis for PACG
Clement THAM

14:52 Gonioscopy in the Era of MIGS
Syril DORAIRAJ

15:03 Tubes in Challenging Cases
Keith BARTON

15:14 Revision Trabeculectomy
Michael COOTE

15:25 Micropulse Laser Cyclophotocoagulation
Paul CHEW

15:36 Role of MIGS in Glaucoma Surgery Today
Tarek SHAARAWY

15:47 Big Problems in Small Eyes
Thasarat VAJARANANT

ICO International Guidelines to Improve Glaucoma Eye Care
Glucoma is the leading cause of world blindness after cataracts. Blindness from both open and closed angle glaucoma is preventable in the vast majority of cases. To help reduce the amount of blindness and vision loss from glaucoma, the new ICO Guidelines for Glaucoma Eye Care summarize core requirements for the appropriate care of open and closed angle glaucoma and consider low and intermediate to high-resource settings. They set out best practices with additional strong guidance to ophthalmologists working in low-resource settings in developing areas. This session will discuss glaucoma diagnosis, treatment, and implementation strategies, with relevance around the world.

16:30 - 18:00 Venue: 309
Chair(s): Tin AUNG, Neeru GUPTA, Hugh TAYLOR

16:30 Introduction to the International Glaucoma Guidelines
Neeru GUPTA

16:40 The Burden of Glaucoma Worldwide
Tin AUNG

16:50 How to Manage Open Angle Glaucoma
Ningli WANG

17:00 How to Manage Closed Angle Glaucoma
Clement THAM

17:10 Managing Glaucoma in Low-Resource Settings
Nathan CONGDON

17:20 Where Does Glaucoma Fit into WHO's Global Action Plan for Eye Health?
Ivo KOCUR

17:30 How to Implement ICO Glaucoma Guidelines to Improve Eye Care
Serge RESNIKOFF

17:40 Questions & Answers

Lindberg Symposium: Exfoliation Syndrome
Exfoliation syndrome (XFS) is the most common identifiable cause of open-angle glaucoma worldwide and is a potentially reversible or even curable disease. It is being increasingly reported in conjunction with multiple ocular and systemic disorders, and the number of these is expected to grow. New findings in genetics, environmental factors, molecular biology, and cell biology are shedding new light on the pathophysiology of XFS and opening new possible therapeutic modalities. This symposium presents new aspects of this protean disease.

16:30 - 18:00 Venue: Hall 405E
Chair(s): Mineo OZAKI, Robert RITCH, Steve SEAH

16:30 Overview of Genetics
Chiea Chuen KHOR

16:43 Functional Analysis of LOXL1 Variants Associated with Exfoliation Glaucoma
Michael HAUSER

16:56 Pathology of XFS
Tero KIVELA

17:09 Ocular and Systemic Manifestations of XFS
Mineo OZAKI

17:22 Animal Models of XFS
John FINGERT

17:35 Laser and Surgical Approaches in Treatment of Exfoliation Glaucoma
Keith BARTON

17:48 Differentiating TEX from PEX
Chaiwat TEEKHASAENEE
Surgical Interventions in Management of Intraocular Inflammations/Complications of Uveitis

Surgery in patients with uveitis and ocular inflammation presents with a unique set of indications and complications for the surgeon. This symposium discusses the common indications for surgery both in the anterior and posterior segments, as well as their management in these patients for an ideal outcome.

09:00 - 10:30 Venue: 308
Chair(s): David GRITZ, Stephen TEOH, Harvey UY

09:00 Diagnostic Vitreoretinal Surgery in Uveitis: When and How? Stephen TEOH
09:15 Vitreoretinal Surgery in Uveitis Macular Edema Vishali GUPTA
09:30 Management of Inflammatory Complications of Vitreoretinal Surgery Danny NG
09:45 Cataract Surgery in Patients with Uveitis David GRITZ
10:00 Glaucoma Surgery in Patients with Uveitis Kelvin LEE
10:15 Endophthalmitis: Risk Factors and Role of Surgical Management Harvey UY

Challenges in Diagnosis and Management of Intraocular Tuberculosis in Asia-Pacific Countries

Patients with intraocular tuberculosis often present with various clinical features including granulomatous and non-granulomatous uveitis, endophthalmitis or pan-ophthalmitis, and retinal vasculitis mimicking several infectious and non-infectious intraocular inflammations. Such clinical presentations result in a challenge of arriving at the proper diagnosis of tuberculous uveitis and differentiating this infectious uveitis from non-infectious causes of uveitis. Critical assessment of demographic features, ancillary investigation, and exclusion of non-tuberculous uveitis entities help in diagnosis and treatment of intraocular tuberculosis and minimizing morbidity associated with this infectious intraocular inflammation.

11:00 - 12:30 Venue: 308
Chair(s): Fatma ASYARI, Rupesh AGARWAL, Nursing RAO

11:00 Clinical Features of Tuberculous Uveitis in Asia-Pacific Endemic Countries Somsiri SUKAVATCHARIN
11:15 Challenges in Diagnosis of Intraocular Tuberculosis Fatma ASYARI
11:30 Challenges in Interpreting Ancillary Investigations to Support Diagnosis of Tuberculous Uveitis Nursing RAO
11:45 Challenges in Differential Diagnosis of Intraocular Tuberculosis Kalpana MURTHY
12:00 Challenges in Management of Tuberculous Retinal Vasculitis Jyotirmay BISWAS
12:15 Challenges in Diagnosis and Treatment of Paradoxical Reaction in Intraocular Tuberculosis Soumyava BASU
10:00 Developing and Establishing an Eye Patient Management System for Eye Patients in My Local Setting
Claude POSALA

10:10 Setting Up a Corneal Transplantation Program
Vishal JHANJI

10:20 Guideline for Myopia Prevention and Control
Pei-Chang WU

APAO Leadership Development Program 2016-17 Graduation Class 2
Open to APAO Leadership Development Program participants only.

11:00 Reviewing Current CPD System for Ophthalmologists in Mongolia
Chimgee CHULUUNKHUU

11:10 Distribution of the Philippines’ Ophthalmology Training Graduates from the Past 20 Years
Myra Vita OCUBILLO

11:20 Good Clinical Practice and Human Subject Protection Training for First-Year Residents and First-Year Clinical Fellows at the Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
Wasee TULVATANA

11:30 Setting Up a Leadership Development Program in Indonesia
Astrianda SURYONO

11:40 ChildSight Program in the North of Vietnam
Phu NGUYEN

11:50 Kids Right to Sight
Miswanudin MAHYUDIN

12:00 Development of a Program to Prevent and Early Management of Ocular Trauma in Children by Public and Physician Awareness
Kapila BANDUTHILAKA

12:10 Incentive-Based Community Eye Care Program for Underprivileged Elderly in Singapore
Marcus ANG

12:20 Community Mobilization in Eye Care in Bangladesh
Nuzhat CHAUDHURY

12:30 Conclusion
Catherine GREEN

APAO Leadership Development Program 2017-18 Orientation Class 3 Insights Discovery Program: Get Your Message Across—Communicating in Color Part I
Open to APAO Leadership Development Program participants only.

14:30 Insights Discovery: Communicating in Color Part I
Simon ABBOTT

16:30 Insights Discovery: Communicating in Color Part II
Simon ABBOTT

17:45 Conclusion and Next Steps: Masterclass in Sri Lanka and Graduation in Hong Kong 2018
Catherine GREEN

Neuro-Ophthalmology

Challenging Cases in Neuro-Ophthalmology: Afferent
The aim of this session is to bring the audience up to date on the big advances in afferent neuro-ophthalmology. Focus will be on new diagnostic methods in neuro-imaging and OCT. The new research and treatment paradigms for optic neuropathies, non-arteritic anterior ischemic optic neuropathy, neuromyelitis optica, and updates on genetic therapies for Leber hereditary optic neuropathy will be discussed. At the end of the session, the audience will have the latest information on the diagnosis and management of optic nerve diseases.
09:00 A Blind Painter Who Could Not Hear
Dan Milea

09:15 A Child Who Fell Frequently
An-Guor Wang

09:30 Atypical Optic Neuritis
Patrick Yew-Wai-Man

09:45 Bilateral Visual Loss and Intractable Vomiting
Sophia Chung

10:00 A Child with Visual Loss
Satoshi Kashii

10:15 Progressive Visual Loss and Imbalance
Francois-Xavier Borrurat

Challenging Cases in Neuro-Ophthalmology: Efferent
This session is characterized by an audience participation format. Each case presentation begins with the case description, in which the history and examination findings are presented without revealing the critical diagnostic testing or diagnosis. The audience is invited to recommend further diagnostic testing and then speculate as to the diagnosis. This session is designed to promote and advance quality and diagnostic acumen in the field of neuro-ophthalmological disease. Audience participation is encouraged.

14:30 - 16:00 Venue: 309
Chair(s): Sophia Chung, Satoshi Kashii, Clement Tan

14:30 Still Waters Run Deep
Clare Fraser

14:45 For Lack of Tissue
Clement Tan

15:00 Double Trouble
Dean Cestari

15:15 Fixed, Dilated Pupil
John Crompton

15:30 Headache with Ipsilateral Facial Ecchymosis
Walter Jay

15:45 Exotropia After Exercising
Karl Golnik

Ocular Imaging

What's New in Glaucoma Imaging?
Glaucoma specialists have enjoyed major advances in established imaging modalities for the anterior segment and the optic nerve head for the past decade. Importantly, while they look at different aspects of pathophysiology in glaucoma, they are focused on making an impact on the practice of the cutting-edge specialist.

14:30 - 16:00 Venue: 328+329
Chair(s): Toru Nakazawa, Ki Ho Park, Shamira Perera

14:30 Clinical Applications of Multi-Color Imaging
Anna Tan

14:40 Tan Tock Seng Hospital’s Victor Yong Lecture: Multimodal Imaging in Retinal-Choroidal Diseases
Giovanni Staurenghi

15:05 Wide-Field Angiography in Chorioretinal Diseases
Yuichiro Ogura

15:15 Hyperreflective Foci in Central Serous Chorioretinopathy
Hyung Chan Kim
15:25 Clinical Applications of Imaging in Dry AMD
   Robyn GUYMER

15:35 The Role of Imaging in Guiding Macular Surgery
   Chi-Chun LAI

15:45 OCT Angiography for Subretinal Hyperreflective Material in Pathologic Myopia
   Danny NG

### Ocular Oncology & Pathology

**My Most Memorable Case in Ocular Oncology**
For those who manage ocular oncological diseases, often atypical cases with unusual features may be encountered. The speakers in this session will share some of their most memorable cases and highlight some important points in managing these cases.

16:30 - 18:00 Venue: 308
Chair(s): Issam AL JAJEH, Patrick DE POTTER, Hunter YUEN

- 16:30 Pigmented Ciliary Body Tumor
  Hunter YUEN

- 16:40 Extensive BCC
  Michael YEN

- 16:50 Ulcerated Lesion of the Eyelid
  Issam AL JAJEH

- 17:00 Conjunctival Tumor
  Patrick DE POTTER

- 17:10 Orbital Tumor
  Patrick DE POTTER

- 17:20 UM in Asians
  Arun SINGH

- 17:30 Orbit Tumor: Suspense Unleashed
  Fairooz Puthiyapurayil MANJANDAVIDA

- 17:40 Sebaceous Cell Carcinoma: What’s Next After Excision?
  Emmy LI

### Ophthalmic Education

**ICO-AAO Joint Symposium: Safety in the Clinic and Operating Room—Improving Patient Care and Staying Out of Trouble**
The WHO has recently called patient safety an endemic concern, with over 1 in 10 patients suffering from a medical error in the outpatient setting. The AAO, ICO, and WHO have had a strong interest in leading efforts to improve patient safety and avoid medical errors in clinical settings. This symposium will review practical initiatives to help reduce medical errors in both the clinical and surgical setting, as well as discuss specific examples to both educate and avoid medical errors in our practices.

09:00 - 10:30 Venue: 303
Chair(s): Richard ABBOTT, Neeru GUPTA, Clement THAM

- 09:00 Introduction to Global Issues
  Neeru GUPTA

- 09:06 AAO Patient Safety Initiative
  Richard ABBOTT

- 09:16 ICO Patient Safety Initiative
  Neeru GUPTA

- 09:26 WHO Patient Safety Initiative
  Ivo KOCUR

- 09:36 Incorporating Patient Safety Principles into Resident Education
  Jeff PETTEY

- 09:46 Ensuring Safety in High-Volume Surgical Practice Settings
  Ravindran RAVILLA

- 09:56 Practical Examples of How to Avoid Medical Errors in Your Practice
  Nafees BAIG

- 10:06 Summary and Conclusion
  Richard ABBOTT

- 10:12 Questions & Answers

**Assessment, Evaluation, and Certification: Are We Doing It Right?**
Assessments have 2 important roles in education: 1) to ensure teaching quality (to make sure our learners are achieving the desired level of training and achieving learning objectives as stated in the curriculum) and 2) to help teachers get feedback on the quality of their teaching to help them improve. How we use the tools to evaluate our students is equally important to ensure we have selected the correct assessment. This session will guide participants on the use of assessment tools and evaluations and their role in certification.

11:00 - 12:30 Venue: 303
Chair(s): Ava HOSSAIN, Ana PALIS, Ian YEO

- 11:00 Modes and Duration of Evaluation and Certification
  Helena FILIPE
11:14 Components of Evaluation and Certification
*Rajvardhan AZAD*

11:28 Interim Evaluation: How Much Is Important?
*Ava HOSSAIN*

11:42 Post Residency Completion Evaluation
*Ching-Yao TSAI*

11:56 Current System of Assessment, Evaluation, and Certification of Residents in Ophthalmology
*Prashant GARG*

12:10 Pitfalls and Gaps in the Current Evaluation and Certification
*Sunil MOREKER*

**ICO Education Forum: Technology Assisted Teaching and Learning—Reflective Learning**

14:30 - 16:00 *Venue: 303*
*Chair(s): Eduardo MAYORGA, Ana PALIS, Anthony Vipin DAS*

14:30 ICO Education Forum: Technology Assisted Teaching and Learning—Reflective Learning
*Eduardo MAYORGA*

15:00 ICO Education Forum: Technology Assisted Teaching and Learning—Reflective Learning
*Ana PALIS*

15:30 ICO Education Forum: Technology Assisted Teaching and Learning—Reflective Learning
*Anthony Vipin DAS*

**Learning to Teach: How Can We Make Our Students Learn Better?**

This session deliberates on the effectiveness of the learning process and the vectors involved. The prime consideration is the student, who is central to this subject and often overlooked. A good teaching system should fulfill all the desires or wants of the students in the classroom. Therefore, this session is very inclusive, beginning from the genetics and epigenetics of a good teacher to orientation programs for teachers. Since teaching is not a sequential event but a dynamic process involving various tools, contents and approaches make up a great part of the session. In order to be more user-friendly, students as peers are also included in this session. The speakers are international luminaries who will give the best to the audience.

16:30 - 18:00 *Venue: 303*
*Chair(s): Rajvardhan AZAD, Jamiyanjav BAASANKHUU, Meenu CHAUDHARY*

16:30 Who Makes a Good Teacher?
*Catherine GREEN*

16:45 What Students Want from Teachers
*Bupesh SINGH*

17:00 Basics of Teaching and Learning Process
*Karl GOLNIK*

17:15 Variables in Teaching and Learning Process
*Kathy CAO*

17:30 What Are the Best Teaching Approaches?
*Prashant GARG*

17:45 Orientation Program for Teachers
*Ajit MAJI*

**Ophthalmic Epidemiology**

Updates on the Epidemiology and Genetics of Myopia and Pathologic Myopia in Asia
Myopia is a huge public health problem in Asia and worldwide, and adults with high myopia may have potentially blinding pathologic myopia lesions such as staphyloma (23%) and chorioretinal atrophic lesions (19.3%). Both genetic and environmental factors are postulated to be related to myopia. High myopia may be potentially preventable if early environmental behavioral changes such as more outdoor time are encouraged in young children.

09:00 - 10:30 *Venue: 304*
*Chair(s): Paul BAIRD, Kyoko OHNO-MATSUI, Seang Mei SAW*

09:00 Myopia Treatment: The Historical Perspective
*Andrzej GRZYBOWSKI*

09:10 What Do We Really Mean by Emmetropization?
*Ian MORGAN*

09:20 New Insights on Myopia from the European Eye Epidemiology E3 Consortium
*Chris HAMMOND*

09:30 Updates on the Role of Outdoor Time to Prevent Myopia
*Kathryn ROSE*

09:40 A New Outdoor Fitness Tracker Fitsight to Increase Outdoor Time and Prevent Myopia in Children
*Seang Mei SAW*

09:50 The Latest Approaches and Implications of Gene Discovery for Myopia
*Paul BAIRD*

10:00 Novel OCT Techniques to Measures Eye Shape in Myopic Adults
*Anthony KUO*
**Invited Symposia**

**SCIENTIFIC PROGRAM SCHEDULE**

**INVITED SYMPOSIA**

**10:10** The Impact of Pathologic Myopia on Visual Impairment in Asia and Beyond  
*Kyoko OHNO-MATSUI*

**10:20** Animal Models of Novel Techniques to Treat Pathologic Myopia  
*Quan HOANG*

**Big Data and Glaucoma Epidemiology**

With advances in new technology, epidemiology is evolving. Ophthalmic epidemiology and health service research have also benefited from the development of big databases, such as large population-based cohorts, disease registries, and electronic health records. In this symposium, we will review the concept and methodology of big data, explore its strengths and limitations, and discuss the future directions for ophthalmic epidemiology, in particular for glaucoma.

**16:30 - 18:00** Venue: 304  
*Chair(s): Ching-Yu CHENG, Paul FOSTER, David FRIEDMAN*

**16:30** UK Biobank  
*Paul FOSTER*

**16:40** Taiwan National Healthcare Database: The Potential for Large-Scale Ophthalmic Epidemiology  
*De-Kuang HWANG*

**16:50** Large Cohorts and How They Help Us Understand Glaucoma Epidemiology and Genetics  
*Anthony KHAWAJA*

**17:00** Blindness Angle Closure versus Open Angle Glaucoma on Asia’s Meta-Analysis  
*Ronnie GEORGE*

**17:10** What Have We Learned About QOL and Function and Glaucoma in the Last Decade?  
*Ecosse LAMOUREUX*

**17:20** Latest Estimates of Global Glaucoma Burden  
*Ching-Yu CHENG*

**17:30** TAGS: What the Preliminary Data Are Showing Us  
*Silvio Paolo MARIOTTI*

**17:40** How Will We Care for All the People with Glaucoma?  
*David FRIEDMAN*

**17:50** Panel Discussion

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**Orbital and Oculoplastic Surgery**

**Eyelid Symposium 2: Adult—Future Challenges and Fresh Perspectives**

This session includes an overview of preoperative evaluations of the periorbital region for various lid surgeries to maximize surgical results and to minimize intra- and postoperative complications. Speakers will focus not only on cosmetic problems but also on functional aspects in challenging cases of adult lid surgery.

**11:00 - 12:30** Venue: 328+329  
*Chair(s): Llewellyn LEE, Shu-Lang LIAO, Suk-Woo YANG*

**11:00** The Suitable Ptosis Surgery for All Ages?  
*Hunter YUEN*

**11:12** The Retracted Upper Eyelid  
*Eugenie POH*

**11:24** The Retracted Lower Eyelid  
*Tokuhide OYAMA*

**11:36** The Huge Upper Eyelid Defect After Resection  
*Suk-Woo YANG*

**11:48** The Post-Excision, Severely Deficient Lower Eyelid  
*Chieh-Chih TSAI*

**12:00** The Cicatricial Lower Lid Entropion  
*Rohit SAIJU*

**12:12** The Severe Lower Lid Ectropion  
*Usha KIM*

**Challenges in Anophthalmic Socket Reconstruction**

The anophthalmic socket can be a complex problem that poses a challenge to the practicing ophthalmologist. In the young, the need to stimulate orbital bone growth may require frequent change of prostheses or orbital implants. In adults, the contracted socket, involving one or more adnexal components, requires different management strategies with a tailored approach. The porous orbital implant, while designed to improve tissue integration, has its set of complications that need to be handled timely. This symposium will cover advances and current practices in anophthalmic socket management.

**16:30 - 18:00** Venue: 328+329  
*Chair(s): George CHENG, Swee Heng GOH, Darmayanti SISWOYO*

**16:30** What Is New in Socket Surgery  
*Bipasha MUKHERJEE*
16:40  Dermis Fat Graft for Anophthalmic Socket  
Juwan PARK

16:50  Fornix Deepening Techniques for Moderate Contracted Socket  
Darmayanti SISWOYO

17:00  Complications of Porous Orbital Implants  
Shantha AMRITH

17:10  Prosthetic Management of Anophthalmic Sockets  
Khim TEOH

17:20  Exenteration and Reconstruction  
Honglei LIU

17:30  Management of Crypophthalmos and Anopthalmos  
Alejandra VALENZUELA

17:40  Panel Discussion

**Pediatric Ophthalmology & Strabismus**

**Common Problems in Strabismus**
This symposium will cover the common strabismus problems encountered in children as well as adults. Surgical and non-surgical treatment will be discussed with an interactive Q & A session at the end.

09:00 - 10:30  **Venue: Nicoll 3**  
Chair(s): Pauline CHEONG, Craig DONALDSON, Ramesh KEKUNAYA

09:00  Imaging in Paralytic Strabismus  
Connie LAI

09:09  Extra Large ET/XT: Surgical Decision  
Venkateshwar BHOOMPALLY

09:18  Surgical Options for Strabismus in Duane Syndrome  
Ramesh KEKUNAYA

09:27  Intermittent Exotropia: Pearls for Surgical Management—5 Case Scenarios  
Craig DONALDSON

09:36  Partially Accommodative Esotropia  
Monte DEL MONTE

09:45  Botulinum Toxin: When/Where Does It Work in Strabismus?  
Clare FRASER

09:54  Topical Strabismus: The Way Forward  
Santhan GOPAL

10:03  Questions & Answers

**APMS Symposium: Highlights in High Myopia and Myopic Maculopathy**

11:00 - 12:30  **Venue: 309**  
Chair(s): Mingguang HE, Frank MARTIN, Seang Mei SAW

11:00  Epidemiology of High Myopia and Myopic Maculopathy  
Seang Mei SAW

11:10  Environmental Risk Factors of High Myopia  
Ian MORGAN

11:20  Genetic Risk Factors of High Myopia  
Calvin PANG

11:30  Longitudinal Changes of High Myopia: From Structural to Functional  
Mingguang HE

11:40  Imaging in Myopic Maculopathy  
Kyoko OHNO-MATSUI

11:50  Refractive Surgery Options for Treating High Myopia  
Mohamad ROSMAN

12:00  Scleral-Targeted Treatment for Pathologic Myopia  
Junwen ZENG

12:10  Panel Discussion: Future Research Directions for Myopia

**Retinal Problems in Pediatric Ophthalmology Practice**
This symposium will provide the audience with an update on the most challenging retinal diseases affecting children in our region and beyond. With the advances in new diagnostic tools, it is essential that pediatric ophthalmologists are familiar with these technologies and how to apply them appropriately to improve the diagnosis and treatment outcome of retinal diseases in children. This symposium will include components of both medical and surgical aspects of managing various pediatric retinal diseases. Many of the topics are new, but there will also be topics of practical interest for day-to-day management of common pediatric retinal diseases.

14:30 - 16:00  **Venue: Nicoll 3**  
Chair(s): Shuan DAI, Frank MARTIN, Boon Long QUAH

14:30  Zika Virus and the Infant Retina: What Do We Know?  
Darius MOSHFEGHI
INVITED SYMPOSIMS

14:40 Pediatric Retinal Surgery: Challenges and Nuances  
*Wai-Ching LAM*

14:50 FEVR and Norries Disease: Diagnosis and Treatment Recommendations  
*Subhadra JALALI*

15:00 Retinoblastoma: Update on Current Management  
*Michael JONES*

15:10 End Stage ROP: Is It the End of the Road?  
*Rajvardhan AZAD*

15:20 Toxoplasmosis Retinitis in Children: Prevention, Detection, and Treatment  
*Rita SITORUS*

15:30 Retinal Hemorrhages in Infants: Report from a Prospective Study  
*Samantha SIMKIN*

15:40 Diagnostic Retinal Imaging in Pediatric Retina Diseases  
*Boon Long QUAH*

15:50 Panel Discussion

Prevention of Blindness

Innovative Eye Care Service Delivery

14:30 - 16:00 Venue: 304  
Chair(s): *Nathan CONGDON, Mingguang HE, Ecosse LAMOUREUX*

14:30 APAO ICO Mark Tso Golden Apple Award Lecture: A Paradigm Shift in Diabetic Eye Care in Taiwan  
*Lin-Chung WOUNG*

14:45 Closing the Loop in Diabetic Retinopathy Screening: Our New Challenges  
*Ecosse LAMOUREUX*

14:56 Does Artificial Intelligence Make Screening Faster and More Accurate?  
*Mingguang HE*

15:07 Internet Technology and Service Delivery  
*Yuanbo LIANG*

15:18 Innovative Ways to Deliver Eye Care Service in Resource Poor Settings  
*Ravindran RAVILLA*

15:29 Innovations in Eye Care Service Delivery  
*Richard LE MESURIER*

15:40 Novel Research on the Platform of Orbis Programs in Refractive Error, Glaucoma, and Diabetic Retinopathy  
*Nathan CONGDON*

15:51 Questions & Answers

Refractive Surgery

Cross-Linking: What is Its Role in Refractive Surgery?

09:00 - 10:30 Venue: Nicoll 2  
Chair(s): *Sri GANESH, Ronald KRUEGER, Mohamad ROSMAN*

09:00 History and Fundamental Basics of Cross-Linking  
*John MARSHALL*

09:13 Treatment of Keratoconus and Ectasia by Cross-Linking  
*Tommy CHAN*

09:26 LASIKXtra  
*Lim Li*

09:39 SMILEXtra  
*Sheetal BRAR*

09:52 Epithelial-On Treatment of Myopia  
*Julian THENG*

10:05 Topo-Guided PRK with Cross-Linking  
*Rohit SHETTY*

10:18 Questions & Answers

Suspect Keratoconus Screening and Ectasia Prevention and Management with Laser Vision Correction

Keratoconus is a relatively common disease that affects up to 2% of the population in some countries. Post-LASIK keratectasia is a serious complication of corneal refractive surgery and this symposium explores the latest screening protocols for patients at risk of this complication. A critical analysis of the Randleman criteria, BAD algorithm, corneal hysteresis, and other new screening tools will be included. In addition the novel treatment of corneal tissue addition with cross-linking will be discussed. This symposium distills the current thinking of international leaders in this field and is critical to any surgeon who performs corneal refractive surgery.

11:00 - 12:30 Venue: Nicoll 2  
Chair(s): *Ronald KRUEGER, Lim LI, Gerard SUTTON*

11:00 How Effective Are the Randleman Criteria for Screening Refractive Surgery Patients?  
*Colin CHAN*
11:13 BAD Algorithm for Keratectasia Screening  
*Michael BELIN*

11:26 The Role of Corneal Hysteresis in Keratectasia Prevention  
*Pravin VADAVALLI*

11:39 Galilei AAI and ConeX Screening  
*Carlos ARCE*

11:52 Femtosecond Intrastromal Lenticule Implantation: Tissue Addition Technique Combined with CXL for Mild to Moderate Keratoconus?  
*Sri GANESH*

12:05 Percentage Tissue Altered as a Guide in Normal and Suspicious Corneas  
*Marcony SANTHIAGO*

12:18 Post-LASIK Ectasia Risk Assessment: Where Are We Now?  
*Cordelia CHAN*

Controversies in Refractive Surgery Debates
This is an interactive session in which pairs of renowned speakers will debate on the most current controversies in refractive surgery. These are controversies which affect the daily practice of refractive surgeons. Pertinent issues on SMILE, LASIKXtra, and corneal treatment for presbyopia will be discussed. Audience response system will be used to determine the effectiveness of the speakers in presenting their points of view.

14:30 - 16:00 Venue: Nicoll 2  
Chair(s): Jorge ALIO, Ronald KRUEGER, Mohamad ROSMAN

14:30 Small Incision Lenticule Extraction Will Supercede FemtoLASIK in the Future (Pro)  
*Colin CHAN*

14:42 Small Incision Lenticule Extraction Will Supercede FemtoLASIK in the Future (Con)  
*Miguel TEUS*

14:54 Questions & Answers

14:58 Simultaneous LASIK and Cross-Linking (LASIKXtra) Should Be Performed Routinely (Pro)  
*Jerry TAN*

15:10 Simultaneous LASIK and Cross-Linking (LASIKXtra) Should Be Performed Routinely (Con)  
*Jorge ALIO*

15:22 Questions & Answers

15:26 Corneal Inlays Are a Better Option for Presbyopic Correction Compared to Laser Presbyopic Treatment (Pro)  
*Mike HOLZER*

15:38 Corneal Inlays Are a Better Option for Presbyopic Correction Compared to Laser Presbyopic Treatment (Con)  
*Robert ANG*

15:50 Questions & Answers

New Presbyopia Technologies with Multifocal and Increased Depth of Field Optics in the Cornea and the Lens
Presbyopia is a longstanding problem not yet solved in refractive surgery. During this symposium, the different perspectives for presbyopia correction will be addressed, from corneal multifocality to new emerging intraocular lenses. These methods are the most commonly used today for the correction of presbyopia and their different indications, outcomes, and complications will be outlined.

16:30 - 18:00 Venue: Nicoll 2  
Chair(s): Jorge ALIO, Sri GANESH, Julian THENG

16:30 Comparison of Multifocal IOL Technologies  
*Jorge ALIO*

16:43 Tecnis Symfony  
*Han-Bor FAM*

16:56 The Physics and Effectiveness of Trifocal IOLs  
*Damien GATINEL*

17:09 Varifocal IOLs  
*Yee Fong CHOONG*

17:22 Small Aperture Intracorneal Inlays and Intraocular Lenses  
*Minoru TOMITA*

17:35 Hydrogel Inlays for the Correction of Presbyopia Through Pocket Incisions: Early Experience and Initial Results  
*Mohamad ROSMAN*

17:48 Comparison of PresbyLASIK Techniques  
*Suphi TANERI*

Retina (Medical)

Innovations and Lessons of Clinical Research in Macular Diseases in the Asia-Pacific
This session will provide a summary of the most impactful clinical studies in retina in recent years, including clinical trials on PCV and myopic CNV, and lessons from post-marketing studies reporting real-
world data. It is a perfect session for the busy clinician who wishes to keep up-to-date with the latest developments.

09:00 - 10:30 Venue: Hall 404A
Chair(s): Gemmy CHEUNG, Jost JONAS, Paul MITCHELL

09:00 Randomized Trials on Treatment of Myopic CNV: MYRROR and RADIANCE
Kyoko OHNO-MATSUI

09:12 Lessons from Population-Based Studies of Macular Diseases in Asia: How Can We Do Better?
Jost JONAS

09:24 Insights into Genetic Markers of Asian AMD and PCV: The GAMA Consortium
Ching-Yu CHENG

09:36 Choroidal Changes in Macular Diseases
Yasuo YANAGI

09:48 Randomized Trial on Treatment for PCV: PLANET
Gemmy CHEUNG

10:00 Randomized Trial on Treatment for PCV: EVEREST II
Won Ki LEE

10:12 Real Life Evidence on Treatment of Macular Diseases: The Luminous Study
Paul MITCHELL

10:24 Questions & Answers

APAO-ICO Symposium: Diabetic Retinopathy Guidelines and Implementation—Lessons from the Clinical Practice Setting

Diabetic retinopathy (DR) is a leading cause of vision impairment worldwide and poses significant challenges to eye care services in most countries. Required interventions span across the health system, involving cooperation between general physicians, ophthalmologists, other health care providers, policy makers, financing systems, patient support groups, and vision rehabilitation providers. Diabetic eye care guidelines from the International Council of Ophthalmology (ICO) have been developed to prevent blindness from DR and serve as a resource for eye care providers working in low, middle, and resource rich settings around the world. This symposium will cover current concepts in understanding the challenges, barriers, and management of DR and DME from a clinical as well as public health perspective.

11:00 - 12:30 Venue: Hall 404A
Chair(s): Neil BRESSLER, Silvio Paolo MARIOTTI, Tien-Yin WONG

11:00 WHO Strategies in Tackling Diabetic Retinopathy
Silvio Paolo MARIOTTI

11:09 Global Dissemination of ICO Diabetic Guidelines: Successes and Challenges
Neeru GUPTA

11:18 Lessons and Challenges in Implementing Care of Diabetic Retinopathy in China
Nathan CONGDON

11:27 Strategies to Support International Collaborative Research, Programming, and Advocacy
Brandon AH TONG

11:36 New 2017 ICO Guidelines on Diabetic Retinopathy
Tien-Yin WONG

11:45 New Evidence from Randomized Clinical Trials of Systemic Control of Diabetic Retinopathy
Emily CHEW

11:54 UK Experience in Management of Diabetic Retinopathy and DME: Clinical Trials vs Real Life Evidence
Faruque GHANCHI

12:03 How to Translate Best Evidence from Randomized Clinical Trials of DME and Diabetic Retinopathy in Different Settings?
Neil BRESSLER

12:12 Panel Discussion

Other Maculopathies

In this symposium, experts from Asia and the UK will present and discuss the diagnosis and treatment of a variety of macular diseases. Topics include vitelliform maculopathy, complications of pathologic myopia including myopic CNV and myopic traction maculopathy, optic disc pit, and drug-induced retinopathies. The clinical application of visual electrophysiology in the era of multimodal imaging will also be discussed.

16:30 - 18:00 Venue: Hall 404A
Chair(s): Chi-Chun LAI, Timothy LAI, Ranjana MATHUR

16:30 Masquerades of AMD: Vitelliform Maculopathy
Adnan TUFAIL

16:41 Myopic CNV
Kyoko OHNO-MATSUI

16:52 Tracional Myopic Maculopathy
Chi-Chun LAI
17:03  Optic Disc Pit and Its Complications  
Won Ki LEE

17:14  Unusual Maculopathies  
Anthony MOORE

17:25  Drug-Induced Maculopathies and Retinopathies  
Timothy LAI

17:36  Do We Still Need Electrophysiology When We Have Multimodal Imaging?  
Graham HOLDER

17:47  Panel Discussion

Retina (Surgical)

Retinal Detachment
This symposium will review all aspects of the treatment of rhegmatogenous retinal detachment (RRD). Included will be the surgical approach and choice of treatment for primary RRD (scleral buckle, primary vitrectomy, pneumatic retinopexy), along with management of associated proliferative vitreoretinopathy (PVR). Additionally, the use of surgical adjuvants will be covered, as well as management of traumatic RDs and complications associated with RRD surgery.

11:00 - 12:30  Venue: Nicoll 3  
Chair(s): Andrew CHANG, Shu Yen LEE, William MIELER

11:00  Scleral Buckles: Why and When to Do Them  
Ian MCALLISTER

11:10  Primary Vitrectomy Without Encircling Band for Retinal Detachment  
Narciso ATIENZA JR

11:20  Comparison of Pars Plana Vitrectomy versus Scleral Buckle in the Management of Primary Rhegmatogenous Retinal Detachment  
William MIELER

11:30  Management of Detachments with Proliferative Vitreoretinopathy  
Shu Yen LEE

11:40  Use of Heavy Liquid Tamponade in Complex Retinal Detachment  
Andrew CHANG

11:50  My Surgical Experience with Complicated Retinal Detachment  
Gitalisa ADRIONO

12:00  Retinal Detachments Associated with Trauma and Intraocular Foreign Bodies  
Paisan RUAMVIBOONSUK

12:10  Managing Macular Fold Following Retinal Detachment Surgery  
Naresh KANNAN

Retina Surgery Video Case Conference: Pearls and Pitfalls

16:30 - 18:00  Venue: Nicoll 3  
Chair(s): Caroline CHEE, Yasuo KURIMOTO, Gavin TAN

16:30  IPS in the Retina  
Yasuo KURIMOTO

16:39  Retina Biopsy  
Doric WONG

16:48  Soft Shell Vitrectomy for PVR  
Taiji SAKAMOTO

16:57  Pars Plana Vitrectomy and Phacoemulsification for Phacomorphic Glaucoma  
Antonio SAY

17:06  Questions & Answers

17:15  ILM Flaps for Managing Challenging Macular Holes  
Sjakon TAHIJA

17:24  Improving Visualization in Vitrectomy Surgery  
Harvey UY

17:33  Diabetic Vitrectomy  
Tengku KAMALDEN

17:42  Vitrectomy for PDR: Pearls and Pitfalls/ILM Removal Techniques: Pearls and Pitfalls  
Alay BANKER

17:51  Questions & Answers

Visual Sciences

Advanced Technology and Imaging
The presentations from this session will emphasize novel and innovative technology to understand, image, and treat various retinal disorders. Advanced imaging techniques, drug delivery, and genetic models will be presented.

14:30 - 16:00  Venue: 310  
Chair(s): Susumu ISHIDA, Jennifer KANG-MIELER, Monisha NONGPIUR

14:30  A Genetically Engineered Mouse with Naturally Fluorescent Retinal Vasculature  
Terete BORRAS
14:42  Hyperspectral Camera  
Xavier HADOUX

14:54  Understanding of Inflammatory and Non-Inflammatory Choroidal Thickening Using Laser Speckle Flowgraphy  
Susumu ISHIDA

15:06  Retinal Vascular Imaging Markers Are Associated with Cognitive Decline  
Carol CHEUNG

15:18  A Novel Extended Drug Delivery System for Anti-VEGF Agents  
Jennifer KANG-MIELER

15:30  Optical Intensity: A New Parameter for Optical Coherence Tomography  
Haoyu CHEN

15:42  Swept-Source OCT Imaging of the Optic Nerve Head Complex  
Atsuya MIKI

15:54  Questions & Answers

Advances in Corneal Biology

16:30 - 18:00  Venue: 310  
Chair(s): Kohji NISHIDA, I-Jong WANG, Gary YAM

16:30  Biomechanics and Corneal Disease  
Michael GIRARD

16:43  Mesenchymal Stem Cells in Ophthalmology  
Tsz-Kin NG

16:56  Progression Studies of Corneal Disease: Successes and Challenges  
Kohji NISHIDA

17:09  Developing Stromal Cell Replacement Therapy: Progress and Challenges  
Gary YAM

17:22  Regenerative Therapy for Fuchs Endothelial Dystrophy  
Jodhbir MEHTA

17:35  Corneal Endothelial-Mesenchymal Transition  
I-Jong WANG

17:48  TBC  
Zuguo LIU

Mar 5, 2017 (Sun)

Cataract

Femtosecond Laser in Cataract Surgery

Femtosecond laser cataract surgery is rapidly evolving and its applications are being explored in a variety of cataracts, including dense, mature, subluxated, small pupils, posterior polar, pediatric, and traumatic cataracts. However, there are still certain areas that need more light thrown upon them, particularly complications specific to this technology, its clinical applicability, and benefit to all, as well as other technologies that propose to enhance cataract surgery. This symposium will discuss all aspects of femtosecond laser cataract surgery and its applications as well as advantages and complications that will help the audience to have a balanced and fair view of this technology.

09:00 - 10:30  Venue: Hall 405BX  
Chair(s): Boris MALYUGIN, Abhay VASAVADA, Ronald YEOH

09:00  FLACS Pearls and Overview  
Gerard SUTTON

09:10  FLACS in Soft Cataracts  
Ronald YEOH

09:20  FLACS in Hard Cataracts/Autorecognition  
Harvey UY

09:30  FLACS in White Cataracts  
Hungwon TCHAH

09:40  FLACS in Subluxated Cataracts  
Soon-Phaik CHEE

09:50  FLACS In Polar Cataracts  
Abhay VASAVADA

10:00  FLACS Complications  
Boris MALYUGIN

10:10  Will Zepto Zap Femto?  
David CHANG

Combined Astigmatism Correction with Phaco

This symposium will outline variable approaches to astigmatism correction during phacoemulsification from corneal incisions to intraocular implants. The attendees will receive information about modern approaches to astigmatism diagnostics, IOL design selection, and IOL power calculations, as well as hints for the optimal alignment of the implants.
11:00 - 12:30 **Venue: Hall 405BX**  
Chair(s): Boris MALYUGIN, Marie-Jose TASSIGNON, Seng Ei TI

11:00 Parameters Defining the Power of the IOL  
Chitra RAMAMURTHY

11:18 Correction of Astigmatism Using Vertex Centration  
Marie-Jose TASSIGNON

11:36 Correction of Astigmatism at the Level of the Cornea  
Rohit PARKASH

11:54 Femtosecond Laser Cataract Surgery in Patients with Astigmatism  
Seng Ei TI

12:12 Customized Astigmatism Correction at the Lenticular Plane  
Boris MALYUGIN

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**Cornea, External Eye Diseases & Eye Bank**

*Asia Cornea Society Symposium: Infective Keratitis—Bacterial, Fungal, Acanthamoeba, HSV*  
The Asia Cornea Society symposium on infective keratitis will feature a panel of distinguished speakers from the Asia-Pacific region, discussing insights into the epidemiology of infective keratitis, the diagnostic role of imaging and molecular techniques, and the latest developments in the management of typical and atypical infections.

09:00 - 10:30 **Venue: Nicoll 1**  
Chair(s): Fung-Rong HU, Wei Boon KHOR, Alvin YOUNG

09:00 Molecular Diagnostic Test for Microbial Keratitis  
Ming-Tse KUO

09:10 In Vivo Laser Scanning Confocal Microscope for Microbial Keratitis  
Dipika PATEL

09:20 Update in the Treatment of HSV Keratitis  
Wei CHEN

09:30 Topical Ganciclovir Treatment for CMV Corneal Endothelitis  
Fung-Rong HU

09:40 Microsporidial Stromal Keratitis: Clinical Features, Unique Diagnostic Criteria, and Treatment Outcomes  
Prashant GARG

09:50 An Overview/Update on ACSIKS  
Wei Boon KHOR

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10:00 Contact Lens Infections in Asia (ACSIKS Talk)  
Fiona STAPLETON

10:10 Role of Cross-Linking in Microbial Keratitis  
Vishal JHANJI

**Contemporary Keratoprostheses in Clinical Practice: Are We There Yet?**

11:00 - 12:30 **Venue: Nicoll 1**  
Chair(s): Jodhbir MEHTA, Donald TAN

11:00 Outcomes and Complications of Boston KPro in the UK  
Mark WILKINS

11:12 International vs US Outcomes of Boston KPro Use  
Marcus ANG

11:24 Improving Integration of PMAA Optic to Skirt  
Jodhbir MEHTA

11:36 MOOKP Outcomes  
Bhaskar SRINIVASAN

11:48 OOKP Complications and Management  
Bhaskar SRINIVASAN

12:00 Stem Cell Reconstruction vs KPRO for Ocular Surface Reconstruction  
Harminder DUA

12:12 Panel Discussion

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**Glaucoma**

*New Ideas*  
There are still a lot of questions unsolved in glaucoma research, such as more accurate ways of IOP monitoring and undiscovered pathogenesis of glaucoma. The emergence of new techniques, instruments, and treatments has helped us eliminate these blocks. The combination of other scientific subjects and ophthalmology holds the key to the future of ophthalmic research.

09:00 - 10:30 **Venue: Hall 405E**  
Chair(s): Syril DORAIRAJ, Ching-Lin HO, Xiulan ZHANG

09:00 24-Hour Intraocular Pressure Monitoring with Non-Invasive and Invasive Devices  
Syril DORAIRAJ

09:13 Role of Oxidative Stress and Treatment Modalities in NTG  
Maneli MOZAFFARIEH

09:26 Phaco-Trabeculectomy with Ologen  
Prin ROJANAPONGPUN
**SCIENTIFIC PROGRAM SCHEDULE**

**INVITED SYMPOSIUMS**

**OCT Angiography in Glaucoma**
*Rajesh KUMAR*

09:39

**Is Clear Lens Extraction Safe and Effective for Primary Angle Closure Glaucoma?**
*Clement THAM*

09:52

**Evaluation of ONH Strain Using Lamina Cribrosa Curvature**
*Tae Woo KIM*

10:05

**Convergence of Biology and Engineering for Future Solutions**
*Sibel CETINEL*

10:18

**Glaucma Imaging: Structure, Function**

The reliability and accuracy of the diagnosis and monitoring of glaucoma has improved with the availability of an array of new imaging and visual function tests. This symposium will summarize the latest developments and applications of some of the optical coherence tomography and perimetry technologies for evaluation of glaucomatous damage in the clinic.

10:20

**What's New in Retinal Imaging?**

Retinal imaging is a highly dynamic field. In recent years functional extensions of optical coherence tomography (OCT) such as OCT angiography, Doppler OCT, and polarization-sensitive OCT have increased our ability to visualize novel features of the posterior pole of the eye. This session will provide an overview of such novel technology and highlight clinical applications in a wide variety of ocular diseases.

10:30

**Emerging Orbital Diseases**

Orbital diseases encompass a wide variety of disorders. This symposium aims to update clinicians on the emerging trends in pediatric orbital inflammation and highlights the potential pitfalls of “common” orbital inflammatory disorders as well as lymphoproliferative diseases. IgG4-related disease, an enigmatic orbital and systemic disorder that often raises issues in diagnosis and management, will also be discussed in the attempt to demystify some of these diagnostic and management dilemmas.

10:40

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**Venue:** Hall 405E

Chair(s): Tae Woo KIM, Christopher LEUNG, Kazuhisa SUGIYAMA

11:00 - 12:30

11:00 The Role of the Lamina Cribrosa in Glaucoma
*Toru NAKAZAWA*

11:12 How to Interpret OCT in Glaucoma: Beyond Conventional Printouts
*C. Gustavo DE MORAES*

11:24 Latest Developments in Ocular Imaging for Detection of Glaucoma
*Christopher LEUNG*

11:36 How Does Disc Hemorrhage Affect Structure and Function in Glaucoma?
*Kazuhisa SUGIYAMA*

11:48 Implication of OCT Angiographic Findings Regarding the Vascular Role in Glaucoma
*Tae Woo KIM*

12:00 Applying a Machine Learning Method of the Random Forests Algorithm to OCT in the Diagnosis of Glaucoma
*Ryo ASAOKA*

12:12 An Individualized Approach to Monitor Glaucoma Progression Using Structural and Functional Information Jointly
*Lyne RACETTE*

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**Venue:** 328+329

Chair(s): Taiji NAGAOKA, Leopold SCHMETTERER, Yoshiaki YASUNO

09:00 - 10:30

09:00 Quantification of Diabetic Macular Capillary Bed Using Optical Coherence Tomography Angiography
*Carol CHEUNG*

09:15 Pigment and Flow OCT: Simultaneous Angiography and Retinal Pigment Epithelium Investigation
*Yoshiaki YASUNO*

09:30 Retinal Oxygen Extraction in Diabetes
*Leopold SCHMETTERER*

09:45 Choroidal Vascularity Index
*Rupesh AGARWAL*

10:00 Real-Time In Vivo Imaging of Retinal Cell Death
*Hiroshi KUNIKATA*

10:15 Novel Technique for the Measurement of Retinal Blood Flow Using a Doppler OCT
*Taiji NAGAOKA*

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**Venue:** 308

Chair(s): Anita CHAN, Kelvin CHONG, Diego STRIANESE

09:00 - 10:30

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09:00 Idiopathic Orbital Inflammation in Adults: Emerging Trend
   Kelvin CHONG

09:12 Lacrimal Gland “Inflammatory” Tumors
   Diego STRIANESE

09:24 Orbital Lymphoma
   Atsushi AZUMI

09:36 IgG4 Related Disease: Clinical Management
   Timothy SULLIVAN

09:48 IgG4 Related Disease: Updates on Radiology
   Sunny SHEN

10:00 IgG4 Related Disease: Updates on Histology
   Anita CHAN

10:12 Questions & Answers

Orbital and Oculoplastic Surgery

Beauty Is in the Details: Case-Centric, Customized Orbito-Facial Rejuvenation with Finesse
Many aesthetic patients have high expectations for perfect treatment outcomes. Hence, rejuvenation of the orbital region should be done in an individualistic manner to tailor to and address the unique characteristics of each patient. The aesthetic surgeon should have an eye for details to select the appropriate procedure(s) to rejuvenate the area(s) of concern and make customizations as needed. This symposium will cover the assessment and management of common aesthetic problems such as single eyelid, droopy eyelid, epicanthal fold, eye bag, prominent nasolabial fold, and periocular hollow.

11:00 - 12:30 Venue: 328+329
   Chair(s): Helen LEW, Dongmei LI, Chee-Chew YIP

11:00 The Droopy Hood
   Kasturi BHATTACHARJEE

11:12 The Featureless Upper Blepharon
   Shu-Lang LIAO

11:24 The Pseudo-Squinter
   Akihide WATANABE

11:36 The Voluminous Lower Eyelid
   Juan YE

11:48 The Tear Trough
   Chee-Chew YIP

12:00 The Descended Mid-Face
   Michael YEN

12:12 The Sunken and Wrinkled Periocular Unit
   Helen LEW

Pediatric Ophthalmology & Strabismus

Myopia—From the Research Bench to the Clinic
Myopia has become an epidemic affecting vast numbers of children in the world. This symposium provides an up-to-date review that will be useful for ophthalmologists managing children with progressive myopia. Starting with an update on epidemiology, it will be followed by an overview of the current knowledge on etiology, including basic science and secondary causes which are important to recognize. Treatment modalities to arrest myopia progression will then be discussed, with emphasis on the role of sunlight, atropine eyedrops, and orthokeratology.

11:00 - 12:30 Venue: Nicoll 3
   Chair(s): Seo Wei LEO, Ian MORGAN, Inez WONG

11:00 Updates in the Epidemiology of Myopia in Singapore
   Seang Mei SAW

11:10 Secondary Causes of Myopia: What Not to Miss
   Sara OTAIBI

11:20 Basic Science Concepts and Peripheral Refraction in Myopia
   Ian MORGAN

11:30 Environmental Influence of Myopia
   Kathryn ROSE

11:40 Role of Dopamine in Bright Light Suppression of Form-Deprivation Myopia
   Xiangtin ZHOU

11:50 Updates in the Use of Atropine for Myopia Control
   Audrey CHIA

12:00 Orthokeratology for Myopia Control: An Optometrist’s View
   Helen SWARBRICK

12:10 Orthokeratology for Myopia Control: An Ophthalmologist’s View
   Seo Wei LEO

12:20 Questions & Answers

Refractive Surgery

Femtosecond Lasers in Refractive Surgery
Femtosecond lasers have become a revolution in refractive surgery. Their use at the moment is limited to corneal tissue but with overwhelming results. During this session, the different applications of femtosecond lasers for corneal surgery will be highlighted and
reviewed from the latest information on the topic. Femtosecond lasers in refractive surgery are becoming the gold standard and in the future might even substitute the currently available excimer laser technology.

09:00 - 10:30 Venue: Nicoll 2
Chair(s): Jorge ALIO, Sri GANESH, Jodhibir MEHTA

09:00 Femtosecond Laser Technology and Comparative Analysis of Equipment Available Cordelia CHAN

09:10 Techniques for Creating Perfect Femto Flaps Wing-Kwong CHAN

09:20 Managing Intraoperative Femto Flap Complications Mohamad ROSMAN

09:30 ReLEx SMILE Techniques and Tips for Success Sri GANESH

09:40 Intraoperative Complications and Management of ReLEx SMILE Sheetal BRAR

09:50 Newer Advances in ReLEx SMILE (Hyperopic SMILE) Yu-Chi LIU

10:00 Femtosecond Laser for Intrastromal Corneal Ring and Pocket Creation for Inlays Chitra RAMAMURTHY

10:10 Panel Discussion

Retina (Medical)

Retinal Vein Occlusions

09:00 - 10:30 Venue: Hall 404A
Chair(s): Andrew CHANG, Doric WONG

09:00 Anti-VEGF Therapy for Macular Edema in RVO: The Current Evidence Kenneth FONG

09:13 How to Choose Between Anti-VEGF and Steroids in RVO Xinyuan ZHANG

09:26 Wide Angle Angiography and the Possible Role of Peripheral Laser in Macular Edema Treatment Colin TAN

09:39 When Does One Switch Therapy in RVO? Se Woong KANG

09:52 Is a Loading Dose of 3 Injections of Anti-VEGF Critical in RVO? Raja NARAYANAN

10:05 Will OCT Angio Influence RVO Treatment Strategy? Patricio SCHLOTTMANN

10:18 Role of Induced Chorio-Retinal Anastomoses in CRVO (Includes CRUISE Comparison) Ian MCALLISTER

Old Diseases with New Imaging

11:00 - 12:30 Venue: Hall 404A
Chair(s): Tock-Han LIM, Yuichiro OGURA, Srinivas SADDA

11:00 Pachychoroid Spectrum of Diseases: CSC, PCV, Pachychoroid Neovasculopathy Seung Young YU

11:10 OCT Angiography: Basic Principles and Understanding of OCT-A Srinivas SADDA
## SCIENTIFIC PROGRAM SCHEDULE

### INVITED SYMPOSIUMS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:20</td>
<td>Interpretation and Pitfalls of OCT-A in Clinical Practice</td>
<td>Colin TAN</td>
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<tr>
<td>11:30</td>
<td>OCTA in Diabetic Retinopathy: What Edge Does it Have Over FA?</td>
<td>Paisan RUAMVIBOONSUK</td>
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<tr>
<td>11:40</td>
<td>Wide Field Imaging of Retinal Diseases</td>
<td>William MIELER</td>
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<tr>
<td>11:50</td>
<td>New Methods to Quantify Capillary Network with OCT-A</td>
<td>Carol CHEUNG</td>
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<td>12:00</td>
<td>OCT-A in Mac Tel</td>
<td>Miho NOZAKI</td>
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<tr>
<td>12:10</td>
<td>OCT-A and Ultra Wide Field FA in Sickle Cell Retinopathy</td>
<td>Royce CHEN</td>
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<tr>
<td>12:20</td>
<td>Macular Pigments in Retinal Diseases</td>
<td>Giovanni STAURENGHI</td>
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### Retina (Surgical)

**Diabetic Vitrectomy/Vascular Diseases**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Individualized Treatment in Diabetic Vitrectomy</td>
<td>Warapat WONGSAWAD</td>
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<tr>
<td>09:10</td>
<td>MIVS25 Combined with Dexamethasone Implant for Treating Intractable Diabetic Macular Edema</td>
<td>Young Hee YOON</td>
</tr>
<tr>
<td>09:20</td>
<td>The Role of ERM and ILM Peeling in Diabetic Macular Edema: Is Vitrectomy Beneficial in DME?</td>
<td>Referano AGUSTIAWAN</td>
</tr>
<tr>
<td>09:30</td>
<td>A New Surgical Technique for Diabetic Macular Edema with Subfoveal Hard Exudates</td>
<td>Kazuaki KADONOSONO</td>
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<tr>
<td>09:40</td>
<td>Questions &amp; Answers</td>
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<tr>
<td>09:50</td>
<td>Combined Phacoemulsification and Diabetic Vitrectomy</td>
<td>Sherman VALERO</td>
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<tr>
<td>10:00</td>
<td>Combined Tractional and Rhegmatogenous</td>
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### Immunology of the Eye

The most up-to-date studies and new aspects in clinical and basic immunology of the eye on a broad range of topics will be presented.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Commensal Microbiota and Immune Responses Affecting the Eye</td>
<td>Rachel CASPI</td>
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<td>09:12</td>
<td>Disturbed Profile of Gut Microbiome in Active VKH Patients</td>
<td>Peizeng YANG</td>
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<tr>
<td>09:24</td>
<td>Growth Hormone Releasing Hormone Receptor Signaling in Ocular Inflammation</td>
<td>Sun On CHAN</td>
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<tr>
<td>09:36</td>
<td>Keratic Precipitate Morphology in Uveitic Eyes of Various Etiologies Using Spectral-Domain Optical Coherence Tomography</td>
<td>Noriyasu HASHIDA</td>
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<tr>
<td>09:48</td>
<td>Early Host Response to Intraocular HSV</td>
<td>Sally ATHERTON</td>
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<tr>
<td>10:00</td>
<td>Quantitative Real-Time Measurements in a Mouse Autoimmune Uveitis Model</td>
<td>Wai Kit CHU</td>
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<tr>
<td>10:12</td>
<td>Cationic Amino Acid Transporters in the Pathogenesis of Endotoxin-Induced Uveitis</td>
<td>Chang-Hao YANG</td>
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<td>Day</td>
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<td>Mar 2, 2017</td>
<td>09:00 - 10:30</td>
<td>301</td>
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### Comprehensive Ophthalmology

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<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Instructor(s)</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>11:00 - 12:30</td>
<td>300</td>
<td>Inder SINGH</td>
<td>Modern Laser Vitreolysis: How to Get Started</td>
</tr>
<tr>
<td>11:00</td>
<td></td>
<td>Inder SINGH</td>
<td>Vitreolysis</td>
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</tbody>
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### Refractive Surgery

<table>
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<tr>
<th>Time</th>
<th>Venue</th>
<th>Instructor(s)</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>304</td>
<td>Edmund WONG</td>
<td>Management of Posteriorly Dislocated Lens and Secondary IOL Implantation and Fixation in Aphakia</td>
</tr>
<tr>
<td>09:00</td>
<td></td>
<td>Edmund WONG</td>
<td>Sutureless Scleral Fixation: Tunnels, Flaps, and Glue Scleral Fixated IOL---Discussion of Techniques and Complications</td>
</tr>
<tr>
<td>09:15</td>
<td></td>
<td>Gavin TAN</td>
<td>Iris Fixation: Tip and Pitfalls</td>
</tr>
<tr>
<td>09:27</td>
<td></td>
<td>Doric WONG</td>
<td>Management of Posteriorly Dislocated Cataracts and Dropped Lens Fragments</td>
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</tbody>
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### Glaucoma

<table>
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<tr>
<th>Time</th>
<th>Venue</th>
<th>Instructor(s)</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>14:30 - 16:00</td>
<td>302</td>
<td>Chelvin SNG</td>
<td>Micro-Invasive Glaucoma Surgery</td>
</tr>
</tbody>
</table>
**Orbital and Oculoplastic Surgery**

**Recent Advances in Orbital Diseases**

09:00 - 10:30 **Venue: 302**  
*Chief Instructor: Gangadhara SUNDAR*

09:00  Congenital Deformities  
*Timothy SULLIVAN*

09:12  Pediatric Orbital Tumors and Malformations  
*Alejandra VALENZUELA*

09:24  Adult Orbital Tumors  
*Santosh HONAVAR*

09:36  Orbital Pathology  
*Jyotirmay BISWAS*

09:48  Thyroid Eye Disease  
*Nikolaos TRAKOS*

10:00  Orbital Fractures  
*Sundarshan KHOKHAR*

**Pediatric Ophthalmology & Strabismus**

**Management of Pediatric Cataracts**

09:00 - 10:30 **Venue: 310**  
*Chief Instructor: Sudarshan KHOKHAR*

09:00  Pre-Operative Workup, IOL Power Calculation, Key Surgical Steps for Pediatric Cataract Surgery, Management of Complications  
*Sudarshan KHOKHAR*

10:15  Follow-Up and Rehabilitation  
*Seo Wei LEO*

**Management of Intermittent Exotropia: From Assessment to Surgical Management**

16:30 - 18:00 **Venue: 303**  
*Chief Instructor: Jason YAM*

16:30  Classification and Etiologies of Intermittent Exotropia  
*Connie LAI*

16:45  Evaluation of Patients with Exotropia  
*Simon KO*

17:05  Non-Surgical Management of Intermittent Exotropia  
*Julie LOK*

17:20  Surgical Management of Intermittent Exotropia  
*Jason YAM*
INSTRUCTION COURSES

Refractive Surgery

Modern Understanding of Ocular Accommodation and Outcomes of Current Surgical Treatment Solutions for Presbyopia

16:30 - 18:00 Venue: 301
Chief Instructor: Annmarie HIPSLEY

16:30 Modeling the Mechanism of Action of Human Ocular Accommodation
Annmarie HIPSLEY

16:40 Surgical Alternatives for Presbyopia Correction in 2016
Jorge ALIO

16:55 Lens-Based Treatment Options for Presbyopia
Hung Yuan LIN

17:05 Cornea-Based Treatment Options for Presbyopia
Minoru TOMITA

17:15 Accommodation Restoration Treatments for Presbyopia
David MA

16:32 Epidemiology and Genetics of PCV
Ryo KAWASAKI

16:42 Imaging and Diagnostics of PCV
Gemmy CHEUNG

16:52 Latest Evidence in the Use of Combination Therapy for PCV
Lee-Jen CHEN

17:02 Varying Dosage PDT for PCV
Ian WONG

17:12 Latest Evidence Using Monotherapy for PCV
Timothy LAI

17:22 Challenging and Difficult Cases
Youxin CHEN

17:32 Wrap Up and Conclusion
Ian WONG

Retina (Medical)

Retinal Dystrophy: Diagnosis and Treatment

14:30 - 16:00 Venue: 301
Chief Instructor: Heather MACK

14:30 Clinical Phenotyping Patients with Retinal Dystrophy
Heather MACK

14:45 Genetic Testing and Gene Therapy
David MACKY

15:00 Update on CRISPR Technology
Alexander HEWITT

15:15 Generation and Use of Stem Cells in Retinal Dystrophy
Alice PEBAY

15:30 Update on Trials of Bionic Eye
Penelope ALLEN

11:00 Pearls on Improving Accuracy
Sabong SRIVANNABOON

11:16 Aligning Toric IOLs with Good Outcomes
Tun Kuan YEO

11:32 Remaining Spectacle-Free After Post-LASIK Cataract Surgery
Arthur CHENG

11:48 Nothing Atypical in IOL Power Calculation in Atypical Eyes
Han-Bor FAM

12:04 Panel Discussion

Cornea, External Eye Diseases & Eye Bank

Applications of Corneal Collagen Crosslinking in Ophthalmology

11:00 - 12:30 Venue: 304
Chief Instructor: Vishal JHANJI

11:00 Application of CXL in Microbial Keratitis:
PACK-CXL
Vishal JHANJI

Mar 4, 2017 (Sat)

Cataract

Biometry Course

11:00 - 12:30 Venue: 300
Chief Instructor: Han-Bor FAM

11:00 Pearls on Improving Accuracy
Sabong SRIVANNABOON

11:16 Aligning Toric IOLs with Good Outcomes
Tun Kuan YEO

11:32 Remaining Spectacle-Free After Post-LASIK Cataract Surgery
Arthur CHENG

11:48 Nothing Atypical in IOL Power Calculation in Atypical Eyes
Han-Bor FAM

12:04 Panel Discussion
11:20 Application of CXL in Corneal Refractive Surgeries
Tommy CHAN

11:34 Introduction of CXL
Alex Lap Kk NG

11:46 Application of CXL in Keratoconus and Corneal Ectasia
Gaurav PRAKASH

12:06 Future Advances in CXL
Osama IBRAHIM

Endothelial Keratoplasty: Techniques to Conquer Difficult Situations
16:30 - 18:00 Venue: 301
Chief Instructor: Samar BASAK

16:30 Donor Preparation Techniques in DSEK/DSAEK/DMEK, DSAEK in Failed Graft
Samar BASAK

16:50 DSAEK in Difficult PBK Cases and Triple Procedure
Jeewan TITIYAL

17:06 DSAEK in Pediatric Cases
Vikas MITTAL

17:18 DSAEK in Aphakic/Vitrectomized Eyes and with AC-IOL In Situ
Rajesh SINHA

17:30 DMEK in Difficult Situations
Rajesh FOGLA

Orbital and Oculoplastic Surgery
Endoscopy in Oculoplastics
09:00 - 10:30 Venue: 300
Chief Instructor: Akshay NAIR

09:00 An Introduction to Endoscopy: Instrumentation and Set Up
Akshay NAIR

09:12 Endoscopic Dacryocystorhinostomy: Case Scenarios
Swati SINGH

09:32 Endoscopic Orbital Decompression and Beyond
Raghuraj HEGDE

09:52 The View from Below: Nasal Endoscopic Anatomy Simplified
Adit GUPTA

10:05 Endoscopy Assisted Probing: Changing the Diagnosis and Management of Congenital Nasolacrimal Duct Obstruction
Debarati SAHA

Less for More: Minimally Invasive Eyelid Procedures in Asians
09:00 - 10:30 Venue: 301
Chief Instructor: Chee-Chew YIP

09:00 Introduction
Chee-Chew YIP

09:02 Small Incision Ptosis Surgery
Kelvin CHONG

09:09 Posterior Ptosis Surgery
Wendy LEE

09:22 Frontalis Suspension with Less Incisions
Hunter YUEN

09:32 Small Incision Medial Epicanthoplasty
Kelvin CHONG

09:42 Lateral Canthoplasty Without Cantholysis
Chee-Chew YIP

09:52 Posterior Tarsotomy for Cicatricial Entropion
Hunter YUEN

10:02 Trans-Conjunctival Lower Eyelid Entropion Repair
Chi-Lai LI

10:12 Non-Surgical Eyelid Procedures: Lasers, Light, and Devices
Wendy LEE

10:22 Questions & Answers

Minimally Invasive Orbitofacial Surgery
11:00 - 12:30 Venue: 301
Chief Instructor: Gangadhara SUNDAR

11:00 Small Incision Ptosis Surgery
Dongmei LI

11:12 Epicanthoplasties in Eyelid Surgery
Kasturi BHATTACHARJEE

11:24 Lacrimal Endoscopy and Endolacrimal Surgery
Toru SUZUKI

11:36 Endoscopic DCR
Kyung In WOO

11:48 Endoscopic Orbital and Optic Canal Decompression
Wencan WU
INSTRUCTION COURSES

12:03 Minimally Invasive Orbital Surgery
Gangadhara Sundar

Refractive Surgery

Advanced SMILE Surgery (SMILE+++)
14:30 - 16:00 Venue: 300
Chief Instructor: Jodhbir Mehta
14:30 Introduction and Presbyopia
Jodhbir Mehta
14:52 Ametropia
Osama Ibrahim
15:04 Reimplantation
Sri Ganesh
15:16 Repurposing
Mahipal Sachdev
15:28 SMILE and Crosslinking
Moones Abdalla

Retina (Medical)

Viral Retinitis: An Asian Perspective
16:30 - 18:00 Venue: 300
Chief Instructor: Ian Wong
16:30 Background and Demographics
Ian Wong
16:50 Presenting Signs
Yong TAO
17:10 Special Situations in Asia
De-Kuang Hwang
17:30 Treatment
Koh-Hei Sonoda

Mar 5, 2017 (Sun)

Cataract

Breaking the Formation of the Deadliest of All Complex Cataract with New Innovative Surgical Techniques
09:00 - 10:30 Venue: 309
Chief Instructor: Rajendra Prasad
09:00 Terminal Chop: New Technique for Full–Thickness Nuclear Segmentation in Hard Mature Cataracts
Rajendra Prasad
09:12 New Pupil Expanding Devices to Manage Small Pupil with Hard Cataract
Rajendra Prasad
09:22 New Technique Fixing the Argentinian Flag Sign in Morgagnian White and Intumescent White Cataract
Amit Porwal
09:32 New Suture Ring Fixation of Capsular Bag in Complex Subluxated Cataract
Sudhank Bharti
09:42 New Technique to Prevent Posterior Capsular Disruption in Posterior Polar Cataract
Rajendra Prasad
09:52 New Technique to Manage Posterior Capsular Rupture
Rohit Parkash

Comprehensive Ophthalmology

Ignorance Is Not Bliss. Sterilization of Ophthalmic Surgical Instruments: Myths and Facts
11:00 - 12:30 Venue: 309
Chief Instructor: Bharathi Megur
11:00 Principles of Steam Sterilization
Bharathi Megur
11:10 Re-Processing of Used Surgical Instruments: Cleaning, Disinfection, and Sterilization
Deepak Megur
11:22 Challenges and Solutions for Efficient Sterilization of Hollow Instruments
Deepak Megur
11:35 ETO
Sunil Ganekal
11:45 Instrument Processing in High Risk Cases (Hepatitis B and HIV Positive Patients)
K V Satyamurthy Kodur
11:55 Choosing the Right Sterilizer
H M Ravindranath

Cornea, External Eye Diseases & Eye Bank

Management of Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians
11:00 - 12:30 Venue: 304
Chief Instructor: Kendrick Shih
11:00 Management of Acute Ocular Surface
Inflammation: Paradigm Shift Towards Early Amniotic Membrane Transplantation
Kendrick SHIH

11:15 Visual and Ocular Surface Rehabilitation: Use of Scleral Contact Lenses
Vanissa CHOW

11:30 Ocular Surface Reconstruction
Tommy CHAN

11:45 Diagnosis and Classification: Prognostic Significance
Alex Lap Ki NG

12:00 Limbal Epithelial Transplantation and Keratoprosthesis: The LVPEI Experience
Sayan BASU

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Ocular Imaging

Introduction to OCT Angiography for General Ophthalmologists

09:00 - 10:30 Venue: 303
Chief Instructor: Marcus ANG

09:00 Basics of OCTA for the Anterior Segment
Marcus ANG

09:20 OCTA Applications for Choroidal Diseases
Dawn SIM

09:40 Introduction to OCTA and Basic Applications for the Retina
Anna TAN

10:00 How to Interpret OCTA for the Optic Nerve
Dan MILEA

---

Orbital and Oculoplastic Surgery

Botulinum Toxin for Facial Dystonias

09:00 - 10:30 Venue: 304
Chief Instructor: Muhammad MOIN

09:00 Facial Anatomy and Mechanism of Action
Zafar Ul ISLAM

09:25 Reconstitution of Injection and Injection Sites
Muhammad MOIN

09:50 Hemifacial Spasm, Blepharospasm, and Problem Cases
Muhammad MOIN

Management of Eyelid Trauma

11:00 - 12:30 Venue: 300
Chief Instructor: Pete SETABUTR

11:00 Introduction
Pete SETABUTR

11:20 Repair
Michael YOON

11:40 Canalicular Issues
Gary LELLI

12:00 Additional Considerations
Peter MACINTOSH

Periorbital Applications of Botulinum Toxin Type A

11:00 - 12:30 Venue: 302
Chief Instructor: Mary Rose YAN

11:00 Periorbital Applications of Botulinum Toxin Type A
Mary Rose YAN
### Mar 1, 2017 (Wed)

**Rapid Fire Refractive Surgery and Comprehensive Ophthalmology Update Session**

16:30 - 18:00  **Venue: 300**  
**Chair(s): Jorge ALIO, Wei Boon KHOR, A-Yong YU**

16:30  Impact of Retinal Imaging on Health Behavioral Outcomes in Patients with Diabetic Retinopathy  
*Abhas MEHROTRA*

*Inder SINGH*

16:42  Assessment of the Visual Acuity of Simple Congenital Blepharoptosis  
*Syeed KADIR*

16:48  Pre- and Postoperative Objective Assessment of Quality of Vision in Patients Undergoing YAG Vitreolysis Using Wavefront Aberrometry  
*Inder SINGH*

16:54  Short-Term Safety and Efficacy of Combined Laser-Assisted Subepithelial Keratomileusis and Accelerated Corneal Crosslinking for Myopia  
*Kook Young KIM*

17:00  Efficacy and Outcomes of Combined Topography Guided with Wavefront Optimized Profile for Correction of Myopia  
*Chitra RAMAMURTHY*

17:06  Safety and Efficacy of Accelerated Corneal Crosslinking with Laser in Situ Keratomileusis (3 Years)  
*Jing ZHANG*

17:12  Tear Fluid MMP-8 Concentration Predicts Inflammation After Photorefractive Keratectomy  
*Agung NUGROHO*

17:18  Sub-SMILE Enhancement: A New Retreatment Option  
*Moones ABDALLA*

17:24  Changes in Morphology of Anterior Chamber and Corneal Endothelium Following LASIK in Myopic Eyes

**Shriya DHAR**

17:30  Outcomes of Presbyopic Correction Using Monocular Bi-Aspheric Ablation Profile (PresbyMAX) in Hyperopic Eyes  
*Tommy CHAN*

17:36  Comparative Analysis of Efficacy of Combining Photorefractive Keratectomy with Cross-Linking versus Standard PRK  
*Gitansha SACHDEV*

17:42  Epithelium-On Photorefractive Intrastromal Cross-Linking for Correction of Low Myopia in Asian Eyes  
*Wee-Kiak LIM*

17:48  Corneal Epithelial Remodeling and Related Factors After TransPRK in the Treatment of Myopia  
*Jie HOU*

### Mar 2, 2017 (Thu)

**Rapid Fire Cataract Update Session**

09:00 - 10:30  **Venue: 300**  
**Chair(s): Colin CHAN, Don PEK, Gerard SUTTON**

09:00  Topical Proparacaine vs Combined Topical-Intracameral Lidocaine Anesthesia in Phacoemulsification Surgery with Preoperative Counseling About Intraoperative Visual Fear  
*Kiran SHAKYA*

09:06  Corneal Astigmatism and Aberrations After Combined Femtosecond-Assisted Phacoemulsification and Arcuate Keratotomy: 2-Year Results  
*Tommy CHAN*

09:12  Molecular Mechanism of Long Noncoding RNA MEG3 Regulating Age-Related Cataract as a ceRNA  
*Yu QIN*

09:18  Impact of Intraocular Lens Decentration on Visual Quality  
*Ganesan VAITHEESWARAN*

09:24  Objective and Subjective Visual Outcomes of Extended Range of Focus Intraocular Lenses  
*Ramamurthy DANAPANI*
09:30  Microfibrocellular Proliferation over the Anterior Surface of Foldable IOLs in the Postoperative Period: Cause, Prevalence, and Implications  
   Deepak MEGUR

09:36  Effect of Prophylactic Use of Topical Ketorolac in Prevention of Postoperative Macular Volume Increase After Phacoemulsification Assessed by Optical Coherence Tomography Quantification of Total Macular Volume  
   Khevna PATEL

09:42  Comparison of Axial Length, Anterior Chamber Depth, and Intraocular Lens Power Between Optical Biometry and Applanation Ultrasound in Short, Normal, and Long Eyes  
   Xiaogang WANG

09:48  Visual Outcomes and Real Life Performance of Bilaterally Implanted Extended Vision Intraocular Lens: A Prospective Study  
   Ajay SHARMA

09:54  Monocular Implantation with a Small-Aperture Intraocular Lens to Extend Depth of Focus to Correct Presbyopia During Cataract Surgery  
   Robert ANG

10:00  New IOL Formula Equation Using Anterior Segment 3D-OCT  
   Choun-Ki JOO

10:06  Comparing the Lenstar Optical Biometer and the Verion Image Guided System for IOL Power Calculation  
   Mun Wai LEE

10:12  Evaluation of Visual Outcomes and Rotational Stability of Hydrophobic Acrylic Aspheric Toric IOL: Prospective Study  
   Ajay SHARMA

10:18  Objective and Subjective Accommodation Results of AkkoLens Lumina Intraocular Lens  
   Jorge ALIO

10:24  Evaluation of the Effect of Postoperative Intraocular Lens Decentration on Higher Order Aberrations with Aspheric Balanced Curve Design Intraocular Lens  
   Jeewan TITIYAL

10:30  Comparing the Accuracy of Intraocular Lens Power Prediction Using Haigis, SRK-II, and SRK-T Formulas in Eyes of Different Axial Length  
   Laxman Singh JHALA

11:00  Severe Intraocular Inflammation Following Intravitreal Injection of Bevacizumab and Lucentis For Diabetic Macular Edema: A Comparative Study  
   Nilutpal BORAH

11:06  Clinical Features and Outcomes of Scleritis Across the Asia-Pacific  
   Joshua LANE

11:12  An Analysis of Late Dislocation of In-the-Bag Intraocular Lenses in Uveitic Eyes: Management and Complications  
   Sudha GANESH

11:18  Intravitreal Injection of Neuroglobin in a Rodent Hypoxia Model  
   Sai Bo Bo TUN

11:24  Ocular Autoimmune Systemic Inflammatory Infectious Study (OASIS) Report 1: Epidemiology and Classification  
   Rupesh AGARWAL

11:30  Ocular Autoimmune Systemic Inflammatory Infectious Study (OASIS) Report 3: Posterior and Panuveitis  
   Fang Helen MI

11:36  Polymerase Chain Reaction Analysis in 100 Cases of Suspected Infectious Uveitis in an Ophthalmic Tertiary Care Center in India  
   Jyotirmay BISWAS

11:42  Microbiologic Spectrum and Susceptibility of Isolates in Endogenous Endophthalmitis  
   Bhavik PANCHAL

11:48  Corticosteroid Tapering Success with Every-Other-Month Injections of Intravitreal Sirolimus in Subjects with Active Noninfectious Uveitis of the Posterior Segment Participating in SAKURA Study 1  
   Alay BANKER

11:54  Typhoid Chain Reaction: Salmonella typhi-Induced Endogenous Endophthalmitis in a 28-Year-Old Immunocompetent Male  
   Suchit DADIA
12:00 Optical Coherence Tomography Angiogram in Diabetes and Diabetic Retinopathy
Daniel TING

12:06 Transpalpebral Near-Infrared Transillumination Imaging of Ciliary Body and Intraocular Tumors
Oleg ZADOROZHNYY

12:12 Posterior Eye Shape in Different Refractive Error Groups in Adult Singaporeans
Pavan VERKICHAHLA

12:18 Simultaneous Wide Field of View Swept-Source OCT of the Anterior and Posterior Human Eye
Ryan MCNABB

Visual Sciences

Rapid Fire Visual Sciences Update Session

11:00 - 12:30 Venue: 310
Chair(s): Paul BAIRD, Li Jia CHEN, Li Fong SEET

11:00 GUCA1A Mutation Causes Central Areolar Choroidal Dystrophy, a Well-Defined Condition that Likely Results from Primary Photoreceptor Dystrophies
Chen ZHAO

11:07 CEP78 is Mutated in a Distinct Type of Usher Syndrome
Chen ZHAO

11:14 Mitochondrial DNA Oxidation Induces Imbalanced Activation of NLRP3/NLRP6 Inflammasomes via Upregulation of Caspase-8 and BRCC36 in Ocular Epithelium Facing Environmental Stress
De-Quan LI

11:21 Comparative Analysis of Common Adenovirus Types Identifies Polymorphisms in the CR1 Genes Associated with Severe Ocular Surface Inflammation in EKC
Nobuyo YAWATA

11:28 Protective Effects of a HTRA1 Insertion-Deletion Variant Against Age-Related Macular Degeneration
Tsz-Kin NG

11:35 Inhibition of Nox1/Nox4 by GKT137831 Attenuates Neovascular Remodeling in a Mouse Model of Laser-Induced Choroidal Neovascularization
Jingming LI

11:42 An Investigation on Regulation of Frizzled 5 Expression During Mouse Retina Development
Mengke LI

11:49 Fenofibrate Attenuates Diabetic Retinopathy by Affecting Nrf2 Expression and NLRP3 Inflammasome Activation
Qiuping LIU

11:56 Associations of Genetic Loci with High Myopia in a Chinese Male Population
Kai Xiong CHEONG

12:03 Expression of Cyclophilin D in Human Retinal Pigment Epithelial Cells During Oxidative Stress
Yuan HE

12:10 Wogonin Prevents TLR4-NF-κB-Mediated Neuro-Inflammation and Improves Retinal Ganglion Cell Survival in Retina After Optic Nerve Crush
Yue XU

12:17 Creation of a Genetic Reporter in Cultured ES/iPS Cells to Monitor Differentiation of Retinal Progenitors and 3D Retinal Cups
Shanzhen PENG

Mar 3, 2017 (Fri)

Ophthalmic Epidemiology

Rapid Fire Ophthalmic Epidemiology Update Session

09:00 - 10:30 Venue: 301
Chair(s): Rohit KHANNA, Charumathi SABANAYAGAM

09:00 Impact of Diabetic Retinopathy on Vision-Related Quality of Life in a Chinese Singaporean Population
Eva FENWICK

09:06 Profile of Optic Disc Hemorrhage: A Prospective Case Series
Aanal SHAH

09:12 Prevalence and Risk Factors of Diabetic Retinopathy Among Diabetic Patients Attending Different Tertiary Level Hospitals in Bangladesh
Dipak NAG

09:18 Association Between Visual Status and Mental Health Status in Thai Elderly: A Community-Based Study
Nopphawan URAMPHORN
09:24  6-Year Incidence of and Predictors for Cataract Surgery in Malay and Indian Populations from Singapore
Ava Grace TAN

09:36  Prevalence and Risk Factors of Retinal Arteriolar Emboli in a Multi-Ethnic Asian Population
Kelvin TEO

09:42  An Ecologic Study of Trends in the Prevalence of Myopia in Chinese Adults in Singapore Over the Past Few Decades
Sonoko SENSAKI

09:48  Incidence and Risk Factors of Symptomatic Dry Eye Disease in Malays from the Singapore Malay Eye Study
Ryan MAN

09:54  Overview of Ocular Injury in Southern Bangladesh: A Hospital-Based Study of 406 Cases
Md Shafiqul ISLAM

10:00  Prevalence and Risk Factors for Choroidal Nevi: The Singapore Epidemiology of Eye Disease Study
Si Rui NG

10:06  Analysis of Changes in Characteristics of Severe Retinopathy of Prematurity Patients After Screening Guidelines Were Issued in China
Jing FENG

10:12  Adherence to Diabetic Eye Examination Guidelines in Australia: The National Eye Health Survey
Mohamed DIRANI

Muhammad SASONGKO

10:24  Profile of Secondary Glaucoma at a Teaching Hospital in Surabaya
Evelyn KOMARATIH

10:30  Epidemiology and Visual Outcome of Ocular Trauma and Visual Prognostic Value of Ocular Trauma Score
Laxman Singh JHALA
FREE PAPERS

Monitoring in a National Screening Program
Daniel TING

15:30 Associations Between Perceived Barriers to Diabetes Self-Care and Diabetic Retinopathy in Singaporean Patients with Type 2 Diabetes
Amudha ARAVINDHAN

15:36 Prospective Natural History Study of Retinitis Pigmentosa GTPase Regulator Gene-Associated Retinopathy with Spectral-Domain Optical Coherence Tomography Imaging
James TEE

15:42 Diabetic Retinopathy and Retinal Thickness Profile
Wei DAI

15:48 Comparison of Ranibizumab and Aflibercept for Myopic Choroidal Neovascularization
Taras KUSTRYN

15:54 Analysis of Comorbidities for Development of Diabetic Macular Edema Among Japanese Patients with Diabetes Mellitus-Related Ocular Complications
Atsuki KUME

Rapid Fire Retina (Medical) Update Session 2

16:30 - 18:00 Venue: 302
Chair(s): Rufino SILVA, Kelvin TEO

16:30 Genome-Wide Association Study Identifies a New Genetic Locus at 2q36.3 for Polypoidal Choroidal Vasculopathy in East Asians: The GAMA Consortium
Masayuki YASUDA

16:36 Classification of Exudative Age-Related Macular Degeneration with Pachyvessels on En Face Swept Source Optical Coherence Tomography
Danny NG

16:42 Morphological Patterns of Indirect Choroidal Rupture by Optical Coherence Tomography and Its Relation to Choroidal Neovascularization
Sunil GANEKAL

16:48 Evaluation of Choroidal Neovascularization Before and After Anti-VEGF Therapy Using OCT Angiography
Bhuvan CHANANA

16:54 Two-Year Outcomes Following Intravitreal Aflibercept for Polypoidal Choroidal Vasculopathy in Japanese Patients
Yuji OSHIMA

17:00 Efficacy and Safety of Ranibizumab 0.5 mg Treat and Extend versus Monthly Treatment in Patients with Neovascular Age-Related Macular Degeneration: TREND Study Results
Rufino SILVA

17:06 Response to Ranibizumab in Eyes With Pigment Epithelial Detachments, Including Eyes That Developed Retinal Pigment Epithelial Tears: Data from the HARBOR Study
Patricio SCHLOTTMANN

17:12 Five-Year Outcomes of Polypoidal Choroidal Vasculopathy in Unaffected Fellow Eyes
Eung-Suk KIM

17:18 A Nationwide Cohort Study of Cigarette Smoking and Risk of Neovascular Age-Related Macular Degeneration in Men
Tyler Hyungtaek RIM

17:24 Wet Age-Related Macular Degeneration and Smoking: iTRAQ-Based Quantitative Protein Analysis and Bioinformatics Study from Aqueous Humor
Lyuzhen HUANG

17:30 Comparison of Lipoprotein Profile in Typical Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy
Kelvin TEO

17:36 The DRAGON Study: Two-Year Efficacy of Ranibizumab 0.5 mg in Chinese Patients with and Without Polypoidal Choroidal Vasculopathy
Xiaoxin LI

17:42 Reliability of Contrast Sensitivity Evaluation in Age-Related Macular Degeneration Using a Novel Computer-Based Test: Gabor Contrast Sensitivity Test
Nia MILASTUTI

17:48 Saturation Approach to Reduce the Prevalence of Cataract Blindness
Elesh JAIN

17:54 Relationship Between Mean Platelet Volume and Central Retinal Vein Occlusion in Hypertensive Patients
Pritam BAWANKAR
### Mar 4, 2017 (Sat)

#### Glaucoma

**Rapid Fire Glaucoma Update Session 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Determinants of Three-Dimensional Morphometric Iris Analysis by Swept-Source Optical Coherence Tomography in a Singaporean Population</td>
<td>Tin TUN</td>
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<tr>
<td>09:06</td>
<td>Correlation of Lamina Cribrosa Thickness and Standard Automated Perimetry Findings in Glaucmatous and Non-Glaucmatous Eyes</td>
<td>Ian DAGUMAN</td>
</tr>
<tr>
<td>09:12</td>
<td>Comparison of Changes in Minimum Rim Width and Area in Normal, Hypertensive, and Glaucmatous Eyes Following Acute Intraocular Pressure Elevation</td>
<td>Sourabh SHARMA</td>
</tr>
<tr>
<td>09:18</td>
<td>Trend-Based Analysis of Ganglion Cell-Inner Plexiform Layer Thickness Measured by Optical Coherence Tomography in Eyes with Localized Nerve Fiber Layer Defects</td>
<td>Won June LEE</td>
</tr>
<tr>
<td>09:24</td>
<td>Relationship Between Glomerular Filtration Rate and Primary Open-Angle Glaucma: The Singapore Chinese Eye Study</td>
<td>Yih-Chung THAM</td>
</tr>
<tr>
<td>09:30</td>
<td>Macula in Early Glaucma: Study by OCT Angiography and Electrophysiological Testing</td>
<td>Kuryshova NATALIA</td>
</tr>
<tr>
<td>09:36</td>
<td>Diagnostic Ability of Macular Ganglion Cell Asymmetry in Preperimetric Glaucma</td>
<td>Mei-Ju CHEN</td>
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<tr>
<td>09:42</td>
<td>Application of Isolated-Check Visual Evoked Potential in Early-Stage Open-Angle Glaucma Patients</td>
<td>Xiang FAN</td>
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<tr>
<td>09:48</td>
<td>Determinants of Intraocular Pressure Fluctuations in Patients with Primary Angle-Closure Glaucma</td>
<td>Ling LI</td>
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<tr>
<td>09:54</td>
<td>Anterior Segment Optical Coherence Tomography Parameters in Subjects with Asymmetric Primary Angle Closure Glaucma</td>
<td>Monisha NONGPIUR</td>
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<tr>
<td>10:00</td>
<td>Anterior Segment Angle-to-Angle Scan of Cirrus High Definition Optical Coherence Tomography: Can It Substitute Visante for Angle Closure Detection?</td>
<td>Mani BASKARAN</td>
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<tr>
<td>10:06</td>
<td>Changes of Aqueous Proinflammatory Cytokine Levels in Acute Primary Angle-Closure Eyes</td>
<td>Yaoming LIU</td>
</tr>
<tr>
<td>10:12</td>
<td>Impact of Myopia on Corneal Biomechanics Between Glaucma and Non-Glaucma Patients</td>
<td>Rawiphan PANPRUK</td>
</tr>
<tr>
<td>10:18</td>
<td>Factors Associated with Paracentral Visual Field Defects in Patients with Primary Open Angle Glaucma</td>
<td>Raghavan LAVANYA</td>
</tr>
<tr>
<td>10:24</td>
<td>Determination of Pattern and Rate of Visual Field Progression in Primary Angle Closure Glaucma</td>
<td>Sushma VERMA</td>
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</tbody>
</table>

#### Miscellaneous

**Rapid Fire Ocular Oncology & Pathology and Orbital & Oculoplastic Surgery Update Session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>11:00</td>
<td>A Case of Acute Exudative Paraneoplastic Polymorphic Vitelliform Maculopathy</td>
<td>Haruka SEKIRYU</td>
</tr>
<tr>
<td>11:06</td>
<td>Routine Fundus Screening of Parents and Siblings of Patients with Retinoblastoma: A Study of 100 Consecutive Families</td>
<td>Shweta GUPTA</td>
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<tr>
<td>11:12</td>
<td>Efficacy and Safety of Interferon α-2B in Treatment of Ocular Surface Squamous Neoplasia</td>
<td>Zahid KAMAL</td>
</tr>
<tr>
<td>11:18</td>
<td>Isopropyl Alcohol-Based Excision Biopsy of Ocular Surface Squamous Neoplasia and Closing the Big Conjunctival Defect with a Small Autograft by a “Step Ladder Pattern” Securing and Suturing Technique</td>
<td>Anjum MAZHARI</td>
</tr>
<tr>
<td>11:24</td>
<td>Intra-Arterial Chemotherapy for Retinoblastoma in Thailand: Seven-Year Experience</td>
<td>Rawi BOONYAOPAS</td>
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<tr>
<td>Time</td>
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<td>Author(s)</td>
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<tr>
<td>11:30</td>
<td>Use of a Compressive Conformer in Contracted Fornix Reconstruction: A Novel Technique</td>
<td>Supaparn CHATTINNAKORN</td>
</tr>
<tr>
<td>11:36</td>
<td>Ethnic Variation in Deep Lateral Orbital Anatomy and Its Implications in Decompression Surgery</td>
<td>Amy CHAN</td>
</tr>
<tr>
<td>11:48</td>
<td>Use of a Conjunctiva-Wrapped Jones Tube to Prevent Post-Surgical Complications of Conjunctivodacryocystorhinostomy</td>
<td>Vincent WONG</td>
</tr>
<tr>
<td>11:54</td>
<td>Orbital Implants in Reconstruction of Orbital Fractures: A Ten-Year Series</td>
<td>Stephanie YOUNG</td>
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<tr>
<td>12:00</td>
<td>Factors Associated with Rhinostomy Shape After Endoscopic Dacryocystorhinostomy</td>
<td>Hyun Jin SHIN</td>
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<tr>
<td>12:06</td>
<td>Frequency of Simultaneous Nasal Procedures While Performing Endoscopic Endonasal Dacryocystorhinostomy</td>
<td>Akshay NAIR</td>
</tr>
<tr>
<td>12:12</td>
<td>Combined Approach with Onyx Embolization for Posterior Vascular Malformation of the Orbit</td>
<td>Vivian YIN</td>
</tr>
<tr>
<td>12:18</td>
<td>Comparing the Effect of Levator Advancement and Conjunctival Mullerectomy Ptosis Surgery on Tear Production and Dry Eye Symptoms</td>
<td>Vivian YIN</td>
</tr>
<tr>
<td>13:00</td>
<td>Effect of Physical Activity on Severity of Primary Angle Closure Glaucoma in Malay Patients</td>
<td>Niven TEH</td>
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<tr>
<td>13:06</td>
<td>Automated Pupillograph as a Screening Tool in an Ophthalmology Clinic</td>
<td>Ashwattha SHETTY</td>
</tr>
<tr>
<td>13:12</td>
<td>Blood Pressure in Ocular Hypertension and Primary Open Angle Glaucoma</td>
<td>Aanal SHAH</td>
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<tr>
<td>13:18</td>
<td>24-Hour Blood Pressure and Disease Progression in Primary Angle Closure Glaucoma</td>
<td>Shaoying TAN</td>
</tr>
<tr>
<td>13:24</td>
<td>Association Between Glaucma and Increased Risk of Depression: An 11-Year Population-Based Cohort Study</td>
<td>Yu-Yen CHEN</td>
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<tr>
<td>13:30</td>
<td>Depression in Patients with Primary Open Angle Glaucoma Using Malay Version of Geriatric Depression Scale 14 Questionnaire</td>
<td>Sangeetha THARMATHURAI</td>
</tr>
<tr>
<td>13:36</td>
<td>Malay Version of Glaucma Quality of Life 36 Questionnaire: Assessing Quality of Life in Patients with Primary Open Angle Glaucoma</td>
<td>Sangeetha THARMATHURAI</td>
</tr>
<tr>
<td>13:42</td>
<td>Cigarette Smoking and Severity of Primary Open Angle Glaucoma</td>
<td>Khairuddin OTHMAN</td>
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<tr>
<td>13:48</td>
<td>Quantification of Myelin Density in Human Visual Cortex</td>
<td>Aditya HERNOWO</td>
</tr>
<tr>
<td>13:54</td>
<td>Optic Neuritis: A 5-Year Follow-Up Study of Chinese Patients Based on Aquaporin-4 Antibody Status and Age</td>
<td>Huanfen ZHOU</td>
</tr>
<tr>
<td>14:00</td>
<td>Structural and Functional Changes in Cases of Multiple Sclerosis and Optic Neuritis</td>
<td>Digvijay SINGH</td>
</tr>
<tr>
<td>14:06</td>
<td>Features of Anti-Myelin Oligodendrocyte Glycoprotein-Positive Patients with Demyelinating Optic Neuritis</td>
<td>Ying ZHAO</td>
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<tr>
<td>14:12</td>
<td>A Retrospective Review of the Clinical Characteristics and Visual Outcomes of Optic Neuritis Patients with Seropositive Compared with Seronegative Anti-Aquaporin-4 Autoantibody</td>
<td>Kong Yong GOH</td>
</tr>
<tr>
<td>14:18</td>
<td>Clinical Features and Visual Outcomes of Optic Neuritis in Chinese Children</td>
<td>Huanfen ZHOU</td>
</tr>
</tbody>
</table>

**Rapid Fire Glaucoma and Neuro-Ophthalmology Update Session**

14:30 - 16:00 **Venue: 301**  
**Chair(s): Neil MILLER, Ying ZHAO**

14:30  | Effect of Physical Activity on Severity of Primary Angle Closure Glaucoma in Malay Patients | Niven TEH                   |
15:00  | Association Between Physical Activity and Severity of Primary Open Angle Glaucoma in Malaysian Chinese Patients | Khairuddin OTHMAN           |
15:30  | Optic Neuritis: A 5-Year Follow-Up Study of Chinese Patients Based on Aquaporin-4 Antibody Status and Age | Huanfen ZHOU                |
15:36  | Structural and Functional Changes in Cases of Multiple Sclerosis and Optic Neuritis | Digvijay SINGH              |
15:42  | Features of Anti-Myelin Oligodendrocyte Glycoprotein-Positive Patients with Demyelinating Optic Neuritis | Ying ZHAO                   |
15:48  | A Retrospective Review of the Clinical Characteristics and Visual Outcomes of Optic Neuritis Patients with Seropositive Compared with Seronegative Anti-Aquaporin-4 Autoantibody | Kong Yong GOH               |
15:54  | Clinical Features and Visual Outcomes of Optic Neuritis in Chinese Children | Huanfen ZHOU                |
### Cornea, External Eye Diseases & Eye Banking Update Session

**09:00 - 10:30 Venue: 302**  
**Chair(s): Dipika PATEL**

- **09:00** Differences in Presentation of Central and Non-Central Keratoconus and Their Effect on Screening Criteria for Keratoconus  
  *Gaurav PRAKASH*
- **09:07** Keratoconus Correction and Treatment with Intrastromal Corneal Ring Segments: 15-Year Experience  
  *Merab DVALI*
- **09:14** High Resolution OCT Surface Imaging of Bowman Layer in Asymmetric Keratoconus  
  *Urvija CHOUDHARY*
- **09:21** Post-LASIK Ectasia: Understanding the Mechanistic Pathway Beyond Topography  
  *Tushar GROVER*
- **09:28** Inverse Keratoconus: A Late Finding in Keratoconus Patients After DALK  
  *Jagadeesh Kumar REDDY*
- **09:35** Outcomes of Corneal Cross-Linking for Keratoconus from Routine Clinical Practice: Results from the Save Sight Registries  
  *Keratoconus Module Stephanie WATSON*
- **09:42** Accelerated Collagen Cross-Linking of Cornea with Isotonic Riboflavin Solution in Progressive Keratoconus in a North Indian Population: Short-Term Results  
  *Anjum MAZHARI*
- **09:49** Ethnic Variations of Corneal Biomechanical Properties Between Singaporean Indian and Chinese Adults  
  *Jacqueline CHUA*
- **09:56** Effect of Genotype on FECD Progression  
  *Yu Qiang SOH*
- **10:03** Anterior Stromal Puncture and Bowman Cautery with Cryopreserved Human Amniotic Membrane Transplantation for Treatment of Painful Bullous Keratopathy: A Boon for Patients in Countries with Poor Corneal Donation  
  *Prasoon PANDEY*
- **10:10** Development of Australian Guidelines for the Management of Herpes Simplex Keratitis  
  *Maria CABRERA AGUAS*
- **10:17** Immunopathology and Clinical Phenotype Comparison in Ocular Mucous Membrane Pemphigoid  
  *Hon Shing ONG*
- **10:24** Cataract Surgery in Chronic Sequelae of Stevens-Johnson Syndrome: Walking the Tightrope Without Fear  
  *Purvasha NARANG*

### Glaucoma

**Rapid Fire Glaucoma Update Session 1**

**09:00 - 10:30 Venue: 300**  
**Chair(s): Svetlana ANISIMOVA, Chelvin SNG, Wei ZHU**

- **09:00** Application of High Intensity Focused Ultrasound for Treatment of Primary Open Angle Glaucoma in Indian Patients  
  *Nilanjana DEB*
- **09:06** Results of Surgical Treatment of Refractory Glaucoma by Angular-Uveal Drainage with Non-Absorbable Collagen Antiglaucomatous Device Xenoplast  
  *Svetlana ANISIMOVA*
- **09:12** Eyewatch: An Innovative Adjustable GDD for the Treatment of Glaucoma. Results from our First Clinical Cases with Seton Tubes  
  *Jacopo GUIDOTTI*
- **09:18** Transplantation of iPSC-Derived TM Cells Rescues Glaucomatous Phenotypes in sGC-/- Mice  
  *Wei ZHU*
- **09:24** Prediction of Corneal Pressure with Scleral Pressure Using Pneumatonometry  
  *Ying HAN*
- **09:30** Micropulse Transscleral Diode Laser Cyclophotocoagulation in the Treatment of Pediatric Glaucoma  
  *Marcus TAN*
- **09:36** Selective Trans-Scleral Diode Laser Cycloablation in Eyes Having Visual Potential with Neovascular Glaucoma  
  *Farah AKHTAR*
- **09:42** Oxidative Stress Level in Tears of Primary Open Angle Glaucoma and Primary Angle Closure Glaucoma Patients  
  *Lai Chan FHUN*
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>09:48</td>
<td>Penetrating Canaloplasty on Medically Uncontrolled Primary Angle-Closure Glaucoma: A Pilot Study</td>
<td>Yuanbo LIANG</td>
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<tr>
<td>09:54</td>
<td>Monocyte Chemoattractant Protein-1 Inhibition Prevents Scarring in Experimental Glaucoma Filtration Surgery</td>
<td>Rachel CHONG</td>
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<tr>
<td>10:00</td>
<td>Citicoline Preserves Optic Nerve Integrity and Visuomotor Function Following Chronic Intraocular Pressure Elevation</td>
<td>Kevin CHAN</td>
</tr>
<tr>
<td>10:06</td>
<td>Efficacy of CO2 Laser-Assisted Deep Sclerectomy in Chinese Primary Open Angle Glaucoma Patients: 12-Month Results</td>
<td>Gangwei CHENG</td>
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<tr>
<td>10:12</td>
<td>Phacoemulsification versus Phacoemulsification with iStent Microbypass Stent in Primary Angle Closure Glaucoma: Early Safety and Efficacy Results of a Randomized Controlled Trial</td>
<td>Jason CHENG</td>
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<tr>
<td>10:18</td>
<td>Comparison of Mitomycin C Injection versus Mitomycin C Sponge Application During Phaco-Trabeculectomy</td>
<td>Vivek P</td>
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<tr>
<td>11:00</td>
<td>Rapid Fire Cornea and Miscellaneous Update Session</td>
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<tr>
<td>11:00</td>
<td>Open Globe Injuries: A Prospective Study of Clinical Profile and Prognostic Factors Affecting Final Visual Outcomes</td>
<td>Deepika KAPOOR</td>
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<tr>
<td>11:08</td>
<td>Use of an Augmented Reality Simulator for Teaching Binocular Indirect Ophthalmoscopy to Novice Ophthalmology Residents</td>
<td>Wai-Ching LAM</td>
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<tr>
<td>11:16</td>
<td>Low-Cost Fundus Imaging for Saving Eyesight: Foresight</td>
<td>Gaurav MATHUR</td>
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<td>11:24</td>
<td>Molecular Diagnostic Test Development for Ocular Demodex Infestation</td>
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<td>11:32</td>
<td>Biomechanical Properties of Rabbit Cornea Using Inflation Test at Different Corneal Cross-Linking Irradiances</td>
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<td>Rapid Fire Retina (Surgical) and Pediatric Ophthalmology &amp; Strabismus Update Session</td>
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<td>Role of Nd:YAG Laser Hyaloidotomy in the Management of Premacular Subhyaloid Hemorrhage</td>
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<td>11:06</td>
<td>Effect of Laser Photocoagulation on Hypoxia Inducible Factor-1α and Intercellular Adhesive Molecule-1 in Proliferative Diabetic Retinopathy</td>
<td>Vivi YANDRI</td>
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<td>11:12</td>
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11:18 Outcomes of Segmentation and Peeling in Tractional Retinal Detachment in Advanced Diabetic Eye Disease
Hussain KHAQAN

11:24 Seeing the Invisible with Intraoperative OCT in Surgical Vitreo-retinal Animal Research for Upcoming Clinical Applications
Boris STANZEL, FEBO

11:30 Retinal Layer Segmentation After Silicone Oil or Gas Tamponade for Macula-On Retinal Detachment Using Optical Coherence Tomography
Min KIM

11:36 Cystectomy with Intraoperative Optical Coherence Tomography for Cystoid Macular Edema in Diabetes: Six-Month Outcome
Naoko TACHI

11:42 Vitrectomy with Internal Limiting Membrane Peeling versus No Peeling for Idiopathic Epiretinal Membrane: A Meta-Analysis
Wei Cheng CHANG

11:48 Frosted Angiitis Mimicking Central Retinal Vein Occlusion in a 13-Year-Old Boy: A Case Report
Pei-Chen WU

11:54 Anti-VEGF Monotherapy in the Management of Aggressive Posterior Retinopathy of Prematurity in Selected Cases
Tariq ALI

12:00 Outcomes in Surgical Management of Monocular Elevation Deficit: A Retrospective, Interventional Case Series
Supraja KASTURIRANGAN

12:06 Antenatal Steroid Protects Preterm Infants Against Retinopathy of Prematurity: A Systematic Review and Meta-Analysis
Cheuk Ling YIM

12:12 Sensory Status and Motor Control in Intermittent Divergent Squint
Chirakshi DHULL

12:18 Clinical Observation of Modified Posterior Scleral Reinforcement Surgery to Treat Childhood Progressive High Myopia
Qi LIN

12:24 Sleep Duration and Myopia Among Singaporean Infants
Sonoko SENSAKI

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**Refractive Surgery**

**Rapid Fire Refractive Surgery Update Session**

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<td>Long-Term Visual Outcomes and Stability after Laser Anterior Ciliary Excision</td>
<td>Sheri ROWEN</td>
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<td>Annmarie HIPSLEY</td>
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<td>Rushad SHROFF</td>
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<td>A Comparative Study of Manual and Femtosecond Laser-Assisted Big Bubble Generation for Deep Anterior Lamellar Keratoplasty: A Laboratory Study</td>
<td>Millicent BORE</td>
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<td>Evaluation of Age-Related Changes on Ocular Accommodation Biomechanics Using High-Frequency Ultrasound Biomicroscopy</td>
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<td>Evaluation of Changes in Dysfunctional Lens Syndrome Using Ray Tracing Wavefront Analysis After Laser Anterior Ciliary Excision in Presbyopic Eyes</td>
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<td>Sanjana SRIVATSA</td>
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10:00  SAVER Study: Simulation by Adaptive Optics for Vision Experiment and Treatment in Presbyopia
Shruti KOCHAR

10:06  Results of Intraoperative Manual Cyclotorsion Compensation for Myopic Astigmatism in Patients Undergoing Small Incision Lenticule Extraction
Sheetal BRAR

10:12  Bioptics: The Best Choice for High Ametropia Correction
Merab DVALI

10:18  Customized Ablation in Keratoconus for a Targeted Corneal Asphericity: Q Protocol
Shruti KOCHAR
Cataract

Poster No.: EX1-001
Anterior Lens Capsular Complex Measurements Using Spectral Domain Optical Coherence Tomography
First Author: Xiaogang WANG
Co-Author(s): Yading JIA, Qiang WU, Su Hua ZHANG, Jing DONG

Poster No.: EX1-002
Association Between Visual Measures and Driving Behaviors in Older Drivers with Bilateral Cataract
First Author: Jonathon NG
Co-Author(s): Seraina AGRAMUNT, Kyle CHOW, Lynn MEULENERS, Nigel MORLET

Poster No.: EX1-003
Cataract Surgery Performed with LenSx Femtosecond Laser: Postoperative Follow-Up of 115 Eyes
First Author: Anthony LIN
Co-Author(s): Pei-Tzu KUAN, Ming-Hwei TSAI

Poster No.: EX1-004
Comparison of Effective Phacoemulsification Time Between Conventional Cataract Surgery and Femtosecond Laser-Assisted Cataract Surgery
First Author: Anthony LIN
Co-Author(s): Pei-Tzu KUAN, Ching-Yang LIN, Ming-Hwei TSAI

Poster No.: EX1-005
Comparison of Toric IOL Stability with Conventional Limbal Marking vs Callisto Eye Markerless Alignment System
First Author: Sanjana SRIVATSA
Co-Author(s): Sheetal BRAR, Sri GANESHT

Poster No.: EX1-006
Daily Challenge of a Diffractive IOL: Quality of Vision
First Author: Andreas BORKENSTEIN

Poster No.: EX1-007
Evaluating the Improvement in Clinical Outcomes with Once-Daily Nepafenac 0.3% Ophthalmic Suspension in Patients with Diabetic Retinopathy Following Cataract Surgery: Outcomes from Two Randomized, Vehicle-Controlled Phase 3 Studies
First Author: Andrew CHANG
Co-Author(s): Jennifer ARNOLD, Peter DAVIES, Wilson HERIOT, Nandor JAROSS

Poster No.: EX1-008
Management of Toxic Anterior Segment Syndrome After Uncomplicated Juvenile Cataract Surgery
First Author: Indri WAHYUNI

Poster No.: EX1-009
Novel Optic Design for Multifocal IOL: Initial Results
First Author: Jagadeesh Kumar REDDY
Co-Author(s): Ameya INGAWALE, Siddharthan K S, Rushita KAMDAR, Neeraj SHAH

Poster No.: EX1-010
Objective Assessment of Junior Ophthalmology Residents’ Phacoemulsification Surgical Training Using ICO-OSCAR
First Author: Charles ONG
Co-Author(s): Allan FONG, You Jun LEE, Mohamad ROSMAN, Daniel TING

Poster No.: EX1-011
Outcomes of Modified Phacoemulsification Technique in Cases of Chronic Stevens-Johnson Syndrome with Cataract
First Author: Neelima ARON
Co-Author(s): Tushar AGARWAL, Namrata SHARMA, Jeewan TITIYAL, Renu VENUGOPAL

Poster No.: EX1-012
Small Incision Cataract Surgery Training: The Efficient Course for Postgraduate Residents
First Author: Ouk HEAN

Poster No.: EX1-013
Visual Outcomes of Intraocular Lens Implantation in the Absence of Capsular Support in a Philippine Tertiary Eye Referral Eye Center: A Retrospective Chart Review
First Author: Roel VILLANUEVA
Co-Author(s): Noel CARINO

Comprehensive Ophthalmology

Poster No.: EX1-014
Contribute to Sustainable Development Goals: Environmentally Sustainable Practices at an Eye Hospital in Cambodia
First Author: Manfred MÖRCHEN

Poster No.: EX1-015
Effects of Presbyopia on Near Stereopsis
First Author: Hyosook AHN
Poster No.: EX1-016  
Effects of Vitreous Floaters on Activities in Daily Life  
First Author: Pall SINGH  
Co-Author(s): Wilson WONG JUN JIE

Poster No.: EX1-017  
Is Long-Term Ophthalmic Follow-Up Necessary for Treatment Completed Leprosy Patients: A South Asian Study  
First Author: Madhuwanthi DISSANAYAKE

Poster No.: EX1-018  
Novel Technique of Dog Tick Removal from the Eyelid  
First Author: Li Lian FOO

Poster No.: EX1-019  
Pseudophacocele: Atypical Presentation, AS-OCT Picture, and Innovative Management  
First Author: Shravan MASURKAR  
Co-Author(s): Apoorva AG, Guruprasad AYACHIT, Srinivas JOSHI

Poster No.: EX1-020  
Unusual Acute Presentation of Wilson Disease: Case Reports from Bangladesh  
First Author: Nuzhat CHOUDHURY

Poster No.: EX1-021  
A Case of Bilateral Microsporidiosis in DSAEK Mimicking Graft Rejection  
First Author: Naveen RADHAKRISHNAN  
Co-Author(s): Mano DAS, Venkatesh PRAJNA, Lumbini VATTIKONDA

Poster No.: EX1-022  
A Novel Technique for Pterygium Excision with Conjunctival Autograft with Limbal Stem Cells  
First Author: Mahendra JANGIR  
Co-Author(s): Anju KOCHAR, Poonam BHARGAVA

Poster No.: EX1-023  
Albumen Glue, New Material for Conjunctival Graft Surgery: An Animal Experiment  
First Author: Raden Angga KARTIWA

Poster No.: EX1-024  
Altered Patterns of Fungal Keratitis in a London Ophthalmic Hospital: An 8-Year Retrospective Observational Study  
First Author: Hon Shing ONG  
Co-Author(s): Matthew BURTON, John DART, David MACLEOD, Stephen TUFT

Poster No.: EX1-025  
Characterization of Modified Chitosan Membrane Cross-Linked with Genipin for Cultured Corneal Epithelial Cells  
First Author: Ya-Han LI

Poster No.: EX1-026  
Cheap and Effective Method of Pterygium Surgery: Conjunctival Autografting Using Autologous Fibrin in Blood  
First Author: Shilpa SINGH  
Co-Author(s): Sunil CHAKRAVARTY, Anurag NARULA

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Combined Penetrating Keratoplasty with Sutureless Glueless Scleral Fixation IOL: A Novel Technique  
First Author: Mano DAS  
Co-Author(s): Naresh KANNAN, Naveen RADHAKRISHNAN

Poster No.: EX1-028  
Comparative Evaluation of Thin Lenticule Descemet Stripping Automated Endothelial Keratoplasty Using Single and Double Pass Techniques  
First Author: Namrata SHARMA  
Co-Author(s): Tushar AGARWAL, Neelima ARON, Aarifa HUSSAIN, Rajesh SINGHA, Jeewan TITIYAL

Poster No.: EX1-029  
Conjunctival Rotation Flap Technique in Primary and Recurrent Pterygium  
First Author: Ellen YU KEH  
Co-Author(s): Don Vincent SALUD

Poster No.: EX1-030  
Cornea Bee Stings: A Case Series  
First Author: Michael NGU  
Co-Author(s): Adil HUSSEIN, T NORINA, Tuan Hazri TUAN MAT

Poster No.: EX1-031  
Diagnosis of Viral Keratitis: Comparison of In-House Conventional PCR and Commercial Real-Time PCR  
First Author: Savitri SHARMA  
Co-Author(s): Bagga BHUPESH, Sai Jeevana Madhuri GUDA, Joveeta JOSEPH, Ranjit KONDURI, Bhavani SONTAM

Poster No.: EX1-032  
Diversity and Distribution of Human Ocular Microbial Communities in Diabetic Patients  
First Author: Kuidong KANG  
Co-Author(s): Suah KIM, Su Ah KIM
Poster No.: EX1-033
Effectiveness of Triple Tear Film Therapy in Patients with Evaporative Dry Eye Disease
First Author: Kyung Chul YOON
Co-Author(s): Won CHOI, Yung Hui KIM, Hyoseok LEE

Poster No.: EX1-034
Effectiveness of the Semiscleral and Hybrid Contact Lenses in Keratoconus
First Author: Tamás TÖNKÖL

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Effectiveness of a Fixed Combination of 0.09% Xanthan Gum + Preservative-Free 0.1% Chondroitin Sulfate vs Polyethylene Glycol + Propylene Glycol in Subjects with Dry Eye Disease: A Multicenter Randomized Controlled Trial
First Author: Leopoldo BAIZA-DURAN

Poster No.: EX1-036
Evaluation of Antimicrobial Activities of Amphiphilic Xanthones Against Gram-Negative Bacteria
First Author: Jun Jie KOH

Poster No.: EX1-037
Evaluation of Rigid Gas Permeable Contact Lens in High Post-Keratoplasty Astigmatism
First Author: Rohit AGARWAL
Co-Author(s): Namrata SHARMA, Rajesh SINHA, Jeewon TITIYAL

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Eye Donation Activities and Analysis at a Tertiary Care Hospital
First Author: Swaranjali GORE
Co-Author(s): Nayana POTDAR, Chhaya Ashok SHINDE, Shruti SHIRWADKAR

Poster No.: EX1-039
Factors Predicting Change in Corneal Astigmatism Following Suture Removal in Post-Keratoplasty Patients
First Author: Nopphawan URAMPHORN
Co-Author(s): Ngamjit KASETSUWAN, Vannarut SATIPITAKUL

Poster No.: EX1-040
Genetic Analysis and Surgical Outcomes for Chinese Children with Congenital Hereditary Endothelial Dystrophy
First Author: Yuxin GUO
Co-Author(s): Jing HONG

Poster No.: EX1-041
Graft Suturing for Ultrathin Descemet Stripping Endothelial Keratoplasty with Hypertensive Uveitis and Multiple Procedures: A Case Report
First Author: Philip STANLEY

Poster No.: EX1-042
Idiopathic Bilateral Lipid Keratopathy
First Author: Ming-Hwei TSAI

Poster No.: EX1-043
Indication and Outcomes of Triple Procedures in Cases of Corneal Transplantation in a Teaching Hospital
First Author: Pooja KHAMAR

Poster No.: EX1-044
Keratitis with Descemetocoele Complication After Exposure to Soy Seed in 36-Year-Old Woman
First Author: Daniar SURYOWATI
Co-Author(s): Ismi ZUHRIA

Poster No.: EX1-045
Management and Outcomes of Intraoperative Microperforations During Deep Anterior Lamellar Keratoplasty
First Author: Olivia HUANG

Poster No.: EX1-046
Microsporidial Stromal Keratitis: A Rare Cause of Long-Standing Corneal Infiltrate
First Author: Pragnya DONTHINENI
Co-Author(s): Sashwanthi MOHAN, Somasheila MURTHY

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Morphology and Function of Meibomian Glands and Tear Parameters in Junior High School Students
First Author: Takanori MIZOGUCHI

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Outcomes of Intravitreal Ganciclovir Treatment for Endotheliitis After Keratoplasty
First Author: Jing HONG
Co-Author(s): Yuxin GUO

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Outcomes of Repeat Deep Anterior Lamellar Keratoplasty for Optical, Therapeutic, and Tectonic Indications
First Author: Jyh Haur WOO
Co-Author(s): Hla Myint HTOON, Jodhibr MEHTA, Donald TAN, Yar Li TAN
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Pattern and Visual Outcome After Surgical Intervention for Corneal Penetrating Injuries in Garhwal Region
First Author: Achyut PANDEY

Poster No.: EX1-051
Persistence of Efficacy of 0.1% Cyclosporin A Cationic Emulsion in Subjects with Severe Keratitis Due to Dry Eye Disease
First Author: Andrea LEONARDI
Co-Author(s): Mourad AMRANE, Gerhard GARHÖFER, Marc LABETOULLE, Maite SAINZ DE LA MAZA

Poster No.: EX1-052
Pilot Study on a Novel Optical Coherence Tomography Angiography Technique for Corneal Vascularization in an Animal Model
First Author: Tisha STANZEL
Co-Author(s): Marcus ANG, Suchandrima DAS, Jodhbir MEHTA, Sacha NASO

Poster No.: EX1-053
Prospective Measurement of Pterygium Surgery Satisfaction
First Author: Elliot CRANE
Co-Author(s): David CHU, Alexander CRANE, Mohammad DASTJERDI, Remy FRIEDMAN, Luis LEON

Poster No.: EX1-054
Recalcitrant Atopic Keratoconjunctivitis in Children: A Case Report and Literature Review
First Author: Lingyi LIANG

Poster No.: EX1-055
Role of Eccentric Penetrating Keratoplasty in Management of Postoperative Endophthalmitis with Tunnel Infection
First Author: Erani BORAH
Co-Author(s): Harsha BHATTACHARJEE, Kasturi BHATTACHARJEE, Jnanankar MEDHI, Diva MISRA, Ronel SOIBAM

Poster No.: EX1-056
Safety and Efficacy of 0.1% Cyclosporine A Cationic Emulsion in Subjects with Dry Eye Disease and Sjögren Syndrome
First Author: Serge DOAN
Co-Author(s): Dominique BREMOND-GIGNAC, Béatrice COCHENER, Jean-Sébastien GARRIGUE, Pierre-Jean PISELLA

Poster No.: EX1-057
Sodium Hyaluronate in the Treatment of Dry Eye Syndrome: A Systematic Review and Meta-Analysis
First Author: Bryan ANG
Co-Author(s): Hla Myint HTOON, Wang PRISCILLA, James SNG, Louis TONG

Poster No.: EX1-058
Subgroup Analysis of Two Phase III Studies of 0.1% Cyclosporine A Cationic Emulsion in Subjects with Dry Eye Disease
First Author: Andrea LEONARDI
Co-Author(s): Gerhard GARHÖFER, Dahlia ISMAIL, Marc LABETOULLE, Maite SAINZ DE LA MAZA

Poster No.: EX1-059
Successful Phacoemulsification with Perioperative Topical Ascorbic Acid in Four Patients with Corneal Endothelial Disorders
First Author: Chia-Yi LEE
Co-Author(s): Hung-Chi CHEN, David MA, Chi-Chin SUN, Wei-Chi WU

Poster No.: EX1-060
Systemic Cyclosporin A versus Mycophenolate Mofetil Immunosuppression in High-Risk Penetrating Keratectomy
First Author: Kenric FAN
Co-Author(s): Marcus ANG, Hla Myint HTOON, Jodhbir MEHTA

Poster No.: EX1-061
Terrien Marginal Degeneration Complicated by Corneoscleral Cyst
First Author: Tian Loon LEE

Poster No.: EX1-062
Three-Year Follow-Up of KeraKlear Keratoprosthesis
First Author: Jorge ALIO

Poster No.: EX1-063
Tick Infestation of the Eyelid and Removal with Forceps and Punch Biopsy
First Author: Eok-Soo SUH

Poster No.: EX1-064
Treatment of Keratitis-Ichthyosis-Deafness Syndrome with Subconjunctival Bevacizumab
First Author: Elliot CRANE
Co-Author(s): David CHU, Karl HOEGLER
**Poster No.: EX1-065**  
Unfolded Protein Response Activation in Human Primary Pterygium  
First Author: Jing YANG  
Co-Author(s): Sheng ZHOU

**Poster No.: EX1-066**  
360-Degree Contiguous Selective Laser Trabeculoplasty for Medically Unresponsive Glaucoma  
First Author: Thanendhire SANGAPILLAI  
Co-Author(s): P BHAVANI, L H HAN

**Poster No.: EX1-067**  
A Rare Case of Endogenous Steroid-Induced Glaucoma Secondary to Cushing Syndrome Presenting as Refractory Ocular Hypertension and Exophthalmos  
First Author: Kelvin WAN  
Co-Author(s): Evan P F YIU, Hon Wah YUNG

**Poster No.: EX1-068**  
An Automated System for Angle Classification in Anterior Segment Optical Coherence Tomography Images  
First Author: Damon WONG  
Co-Author(s): Tin AUNG, Mani BASKARAN, Huazhu FU, Yanwu XU

**Poster No.: EX1-069**  
An Insight into Probable Causes of Severe Vision Loss in Cases with Advanced Glaucoma: A Pilot Study  
First Author: Ankur SINHA  
Co-Author(s): Ajay JHINJA

**Poster No.: EX1-070**  
Analysis of Interleukin-6 (-174) Locus Polymorphism and Serum IL-6 Levels with the Severity of Normal Tension Glaucoma  
First Author: Chun-Yuan WANG

**Poster No.: EX1-071**  
Angiogenesis-Related Vascular Endothelial Growth Factor Family in Neovascular Glaucoma Eyes  
First Author: Shida CHEN  
Co-Author(s): Wenbin HUANG, Wei WANG, Xiulan ZHANG, Minwen ZHOU

**Poster No.: EX1-072**  
Anterior Migration of Triamcinolone Acetonide Predisposes to Ocular Hypertension After Posterior Subtenon Injection for Macular Edema  
First Author: Yun-Hsiang YANG  
Co-Author(s): Yi-Ting HSIEH, Wei-Cherng HSU

**Poster No.: EX1-073**  
Associated Factors in Adherence to Anti-Glaucoma Eyedrop Instillation from a Nationwide Prospective Study in Japan  
First Author: Masako SAKAMOTO  
Co-Author(s): Makoto ARAIE, Kenji KASHIWAGI

**Poster No.: EX1-074**  
Association of optic disc hemorrhages with vascular symptoms in open angle glaucoma  
First Author: Karin PILLUNAT

**Poster No.: EX1-075**  
First Author: Shahnaz BEGUM  
Co-Author(s): Md Sharfuddin AHMED, Shah-Noor HASSAN, M Nazrul ISLAM, Syeed KADIR

**Poster No.: EX1-076**  
Bilateral Nanophthalmos, Pigmentary Retinal Degeneration, and Angle Closure Glaucoma: A New Syndrome? A Case Report  
First Author: Shahnaz BEGUM

**Poster No.: EX1-077**  
Biometric Predictors of Intraocular Pressure Change After Cataract Surgery in Eyes with Primary Angle Closure Suspect  
First Author: Eray ATALAY  
Co-Author(s): Tin AUNG, Baskaran MANI, Monisha NONGPIUR, Shamira PERERA, Sushma VERMA

**Poster No.: EX1-078**  
Cogan-Reese Syndrome: A Case Report  
First Author: Daryle Jason YU  
Co-Author(s): John Mark DE LEON

**Poster No.: EX1-079**  
Comparing Trabeculectomy Outcomes Between First and Second Operated Eyes: A Multicenter Study  
First Author: Kentaro IWASAKI  
Co-Author(s): Masaru INATANI
Poster No.: EX1-080
Comparison of Corvis ST, Noncontact, and Goldmann Applanation Tonometers for Intraocular Pressure at Different Levels
First Author: Yingqi LI
Co-Author(s): Shaolin DU, Wenbin HUANG, Jiawei WANG, Xiulan ZHANG

Poster No.: EX1-081
Comparison of Relationships Between Anterior Chamber Depth and Other Ophthalmic Biometrical Ocular Factors at the Central and Peripheral Anterior Chamber Portions Among Japanese Residents
First Author: Kazuyoshi KITAMURA
Co-Author(s): Tatsuya CHIBA, Kenji KASHIWAGI, Joji TANABE

Poster No.: EX1-082
Concentrations of Soluble IL6 Receptor and Soluble gp130 in Aqueous Humor of Patients with Primary Open Angle Glaucoma
First Author: Toshihiro INOUE
Co-Author(s): Miyuki INOUE-MOCHITA, Sachi KOJIMA, Hidenobu TANIHARA

Poster No.: EX1-083
Diagnostic Ability of Automated Pupillography in Glaucoma
First Author: Chaithra AROOR
Co-Author(s): Harsha RAO, Rohit SHETTY

Poster No.: EX1-084
Effect of Phacoemulsification on Intraocular Pressure in Angle Closure Disease
First Author:
Co-Author(s): Jason CHENG, Yong Seng TAM

Poster No.: EX1-085
Effect of Prophylactic Nd:YAG Laser Iridotomy on Corneal Endothelial Cell Density and Morphology in Indonesian Eyes
First Author: Mohammad PRAYOGO
Co-Author(s): Angela AGNI, Retno EKANTINI

Poster No.: EX1-086
Effects of Valsalva Maneuver on Anterior Chamber Parameters and Choroidal Thickness in Healthy Chinese: An AS-OCT and SS-OCT Study
First Author: Xingyi LI
Co-Author(s): Xiulan ZHANG, Shida CHEN

Poster No.: EX1-087
Efficacy and Safety of Different Routes of Mitomycin C Application in Trabeculectomy
First Author: Sarayut NIJVIPAKUL
Co-Author(s): Wasu SUPAKONTANASAN, Yanin SUWAN, Chaiwat TEEKHASANEE

Poster No.: EX1-088
Efficacy and Safety of Phacoemulsification and Intraocular Lens Implantation versus Laser Peripheral Iridotomy in Primary Angle Closure with Coexisting Cataract: A Meta-Analysis
First Author: Jingjing HUANG
Co-Author(s): Weirong CHEN, Xiaohang WU, Li ZHANG

Poster No.: EX1-089
Factors Related to Hypertensive Phase After Glaucoma Drainage Device Implantation
First Author: Orathai PITUKEEWANONT
Co-Author(s): Sunee CHANSANGPETCH, Visane TANTISEVI

Poster No.: EX1-090
Female Reproductive Factors and Open Angle Glaucoma: Korea National Health and Nutrition Examination Survey 2010-2011
First Author: Joeyeun LEE
Co-Author(s): Joon Mo KIM, Miyeon LEE, Ki Ho PARK

Poster No.: EX1-091
Fixed Combination of Anti-Glaucoma Eye Drops Improves Medication Adherence
First Author: Yuka HASEBE
Co-Author(s): Makoto ARAIE, Kenji KASHIWAGI

Poster No.: EX1-092
Malignant Glaucoma Managed with Nd:YAG Capsulotomy: A Case Report
First Author: Shih-Chun CHAO
Co-Author(s): Hung-Jui HSU

Poster No.: EX1-093
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Pediatric Ophthalmology & Strabismus

A Case Report of Congenital Toxoplasmosis with Severe Neurological and Ocular Manifestations
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A Comparative Study of Occlusion Therapy versus Vision Therapy Software and Home Therapy System in Treatment of Amblyopia
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Acquired and Progressive Retinal Nerve Fiber Layer Myelination After Fronto-Supraorbital Advancement in Coronal Craniosynostosis
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Barrier Analysis and Outcome of Pediatric Cataract Surgery in Underprivileged Children of Assam, India
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Characteristics of Congenital Rubella Syndrome in Central Java: January 2015 to June 2016
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Childhood Esotropia Management Outcome: A Prospective Evaluation
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Congenital Cytomegalovirus Retinitis as a Possible Cause of Poor Vision in a Premature Infant: A Case Report
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Difference in Objective Refractive Error Between Preterm and Term Births in Children with Corrected Age from 6 Months to 3 Years
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Effects of Computer and Mobile Device Usage on Visual Acuity and Tear Film in Children
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Epidemiological Characteristics of Pediatric Ocular Trauma at a Large Tertiary Hospital in Singapore
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Evaluation of Refractive Errors and Ocular Biometric Outcomes After Individual Treatments of Photocoagulation and Intravitreal Bevacizumab as Monotherapy for Retinopathy of Prematurity at Age 5
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Exercise-Induced Esotropia After Strabismus Surgery
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Initial Experience of Pediatric Visual Electrophysiology in a Newly Set Up Electro-Diagnostic Laboratory in a Tertiary Care General Hospital
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Long-Term Visual Outcomes Following Toric Intraocular Lens Implantation in Pediatric Eyes Undergoing Non-Traumatic Cataract Surgery
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Modified Adjustable Suture Hang-Back Recession: Description of Technique and Comparison with Conventional Adjustable Hang-Back Recession
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Normative Biometric Data in Pediatric Eyes from Birth to 2 Years of Age
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Optical Coherence Tomography and Refractive Error in Singaporean Children
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Prospective Comparative Clinical Study of Combined Laser and Intravitreal Bevacizumab Using Two Different Regimens for Management of Aggressive Posterior Retinopathy of Prematurity
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Refractive Errors and Concomitant Strabismus: A Systematic Review and Meta-Analysis
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Retinopathy of Prematurity Screening of Premature Infants in Tertiary Health Care
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Success Rate of External Dacryocystorhinostomy with Irrigation of Nasolacrimal Duct
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The Effect of Probing Without Irrigation
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Unusual Variant of Microcornea, Myopic Chorioretinal Atrophy, and Telecanthus Syndrome Presenting with Bilateral Esotropia: A Case Report
First Author: Simranjeet AULAKH
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What Do They Really See After Spontaneous Regression of Retinopathy of Prematurity?
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Prevention of Blindness

African Innovation: Improving Ophthalmology Referral Systems with the Vula Mobile App
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Blindness and Visual Impairment Among Glaucoma Patients at a Teaching Hospital in Surabaya
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Evaluating the Effectiveness of Pocket Book Training to Prevent Blindness in Children for Health Cadres in Puskesmas Gunungpati, Semarang
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Evaluation Development Services Center and Community Eye Health Program (P4KMM) at Diponegoro University
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One Stop Childhood Refractive Error Services for Marginal Underserved Population of Bangladesh
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Successful Implementation of VISION 2020 in Nepal
First Author: Shyam POKHREL
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Tamsoma Jyotirgamaya: Sighting the Causes for Blindness Through Evaluation of Students in a School for the Blind
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The Development of a Head Mounted Device Application to Improve Reading Ability in Patients with Central Vision Loss: A Pilot Study
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WHO Eye Care Service Assessment in Nepal
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Refractive Surgery
Application of Reverse Geometry Contact Lenses for Vision Improvement in Post LASIK Patients
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Clinical Outcomes of Scleral Fixated Intraocular Lenses
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Comparison of 3-Month Visual Outcomes After Photorefractive Keratectomy and Phakic Intraocular Lens Implantation in Highly Myopic Patients
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Correlation Between Distribution of Age and Gender to Central Corneal Thickness of Photorefractive Keratectomy Patients
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Impact of Increased PTA Values on Visual Outcomes One Year After Refractive Lenticule Extraction (ReLEx) Smile
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Long-Term Results of Refractive Lenticule Extraction ReLEx Smile Compared to Femto-LASIK
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Outcomes of Femtosecond Lenticule Extraction and Small- Incision Lenticule Extraction for Correction of Myopia and Myopic Astigmatism
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Realignment of ICL Vertically to Reduce the Vault of ICL
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SMILE Again
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Visual Performance After Excimer Laser Photorefractive Keratotomy for High Myopia
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Retina (Medical)
Activation of the Hyaluronan Signaling Pathway in Retinal Pigment Epithelium in a Proliferative Vitreoretinopathy Model
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Association Between Dementia, Cognitive Function, and Age-Related Macular Degeneration: A Systematic Review and Meta-Analysis
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Association of Choroidal Neovascularization and Chronic Central Serous Chorioretinopathy After Photodynamic Therapy with Optical Coherence Tomography Angiography
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Association of Scleral Irregularity with Severity of Myopic Macular Degeneration
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Bimonthly Intravitreal Ranibizumab Injections in Patients with Macular Edema Associated with Branch Retinal Vein Occlusion
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Cost-Effectiveness of Intravitreal Medication Therapy for Retinal Diseases in a Non-Reimbursed Market  
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Effect of Pretreatment Metabolic Risk Factors on Response of Intravitreal Triamcinolone Acetonide Followed by Macular Laser Treatment in Diabetic Macular Edema  
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Intravitreal Dexamethasone in Non-Infectious Uveitic Cystoid Macular Edema  
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Post-Implementation Evaluation of Novel Pilot Intravitreal Injection Order Forms  
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Posterior Segment Manifestation of Ocular Tuberculosis in a Filipino Female  
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Posterior Segment Ocular Manifestations of Syphilis in Filipino Males  
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Predicting the Risk of Diabetic Retinopathy in Pediatric Populations with Juvenile-Onset Type 1 Diabetes: A Study from Taiwan  
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Prospective Trial of Treat-and-Extend versus Every Two Months Dosing with Aflibercept for Wet Age-Related Macular Degeneration
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Psychogenic Stress Induced Cystoid Macular Edema in Patients with Reduced General Health
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Safety and Efficacy of Razumab (Ranibizumab), the New Biosimilar in India: Our Experience
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Short-Term Efficacy of Intravitreal Aflibercept Injections for Retinal Angiomatous Proliferation
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Vision Preservation in Eyes of Polypoidal Choroidal Vasculopathy with Low-Dose Intravitreal Triamcinolone Acetonide
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Comparison of Surgical Outcomes of Pars Plana Vitrectomy for the Treatment of Highly Myopic Lamellar Macular Hole with and Without the Inverted Lamellar Hole-Associated Epiretinal Proliferation
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Early Vitrectomy with Silicone Oil to Cure Severe Ocular Injury
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Efficacy of Subthreshold Micropulse Laser Therapy (577-nm) for the Treatment of Chronic Central Serous Retinopathy: Our Know-How
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Factors Associated with Corneal Epithelial Defect After Pars Plana Vitrectomy
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High-Frequency Electric Welding versus Diode Laser Photocoagulation as Intraoperative Retinopexy in Vitrectomy for Rhegmatogenous Retinal Detachment
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Laser Embolectomy for Branch Retinal Artery Occlusion: A Case Report
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Retina (Surgical)

18-Month Review of the Results of Suprachoroidal Macular Buckling Surgery on Myopic Tractional Maculopathy as Initial Experience in Hong Kong Chinese
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Long-Term Course Following Vitreous Surgery for Epiretinal Membrane  
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Modified Chandelier Technique (4-Port Technique) for Bimanual Surgery in 20G Pars Plana Vitrectomy  
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Novel Surgical Technique of Peeled Internal Limiting Membrane Repositioning in Idiopathic Macular Holes  
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Outcomes of Vitreoretinal Surgery for Pediatric Abusive Head Trauma  
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Pneumoretinopexy with Sub-Retinal Fluid Drainage in Treatment of Bullous Rhegmatogenous Retinal Detachment  
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Profile, Outcomes, and Management of Open Globe Posterior Segment Trauma in a Tribal Population of Central India  
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Recurrent Exudative Retinal Detachment After Trans-Scleral Cyclophotocoagulation in a Postvitrectomized Eye of a Sturge-Weber Syndrome Patient  
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Refractive Error After Surgical Treatment for Macular Disease Measured Using the IOLMaster 700  
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Rhegmatogenous Retinal Detachment After Phakic Implantable Collamer Lens Implantation  
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Suprachoroidal Hemorrhage: A Surgical Nightmare. Is It All Doom and Gloom?  
First Author: Farah ABU BAKAR

Sympathetic Ophthalmia: A Survey of Current Practice by UK Vitreoretinal Surgeons  
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Visual Outcome of Epiretinal Membrane Peeling in Diabetic Retinopathy  
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Vitreectomy with Hemi-Inverted Internal Limiting Membrane Flap Technique for Macular Hole Retinal Detachment  
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Vitreous Proteomic Profile in Diabetic Retinopathy  
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Visual Sciences

Celastrol Inhibits Transforming Growth Factor β2-Induced Epithelial-Mesenchymal Transition of Lens Epithelial Cells  
First Author: Liping WANG  
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Complex Crosstalk Between Ocular Tissues and Adnexa Identified by a Genetically Engineered Mouse Model  
First Author: Chunqiao LIU

Effect of ROCK Inhibitor K-115 (Ripasudil) on Murine Corneal Transplantation  
First Author: Takenori INOMATA  
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