The APAO Congress will present awards to the top 5 most popular posters as chosen by delegates. Use the stickers below to vote for your 5 favorite posters in the poster display area. Here’s how!

**Instructions**

1. Remove a sticker from this sheet.
2. Stick it next to the poster of your choice. Take care not to cover the content of the poster.
3. Repeat steps 1 & 2 to use all 5 stickers!

The voting period for all posters at APAO 2019 is shown below. Be sure to use all your stickers before voting ends!

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Voting begins</td>
<td>March 6</td>
</tr>
<tr>
<td>Voting ends</td>
<td>March 8</td>
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<tr>
<td></td>
<td>09:00</td>
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<td>12:00</td>
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**APAO 2019 Most Popular E-Posters & Videos**

The APAO Congress will also present awards to the top 5 e–posters and top 5 videos as chosen by delegates. Here’s how to cast your vote!


2. Browse the submitted e–posters/videos by subspecialty or search for a specific e–poster/video by author name or title.

3. Select the e–poster/video of your choice. Click on the heart (❤️) to cast your vote. Change your mind? No worries! Just click the heart (❤️) again to withdraw your vote.

4. In order to record your vote, the online voting system will ask you to log in using your last name and registration barcode (printed on the APAO delegate badge).

5. Repeat steps 1–4 to use your remaining 4 votes in each category (e–poster/video).

Remember, the voting period for the APAO 2019 e–posters and videos ends at 12:00 noon on Friday, March 8, 2019. Be sure to vote before the online system closes!
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Dear Friends and Colleagues,

The year 2003 was the last time the APAO Congress was held in Bangkok. Many things in science, art, culture, technology and so on have changed considerably since then.

The APAO Congress in 2003 was still in the era when APAO Congresses were held once every two years. It was the most successful APAO Congress ever then with more than 1200 delegates, over 300 submitted abstracts and more than 40 exhibitors. It was, however, surpassed very quickly by the following APAO Congresses. Sixteen years later in 2019, the APAO Congress in Bangkok had nearly 6000 delegates, over 1500 submitted abstracts and more than 250 exhibitors. APAO Congresses have, without a doubt, become an annual global event in ophthalmology.

The Royal College of Ophthalmologists of Thailand is proud to be part of the growing APAO. We are honored to be given this great opportunity to host the APAO Congress one more time after more than 16 years. We welcome ophthalmologists and related personnel from all over the world to the ‘Sciences and Arts of Ophthalmology’. While the growing success of APAO is certainly due to the strength of the scientific programs, friendship and the social part or art of academic meetings is also slowly built up through APAO Congresses. I believe if APAO council members, speakers and delegates who attend APAO Congresses regularly through the years count the number of new friends they know from the congresses, they will find the number is enormous, or even countless.

The current President of the Royal College of Ophthalmologists of Thailand, Dr Anuchit Poonyathalang, said in the welcome video for APAO 2019: “When our Thai hospitality meets academic spirit, APAO 2019 will bring the best of sciences and arts that ophthalmology offers.” He is certainly correct.

Thank you all for bringing science, art and also friendship to APAO 2019 in Bangkok, Thailand.

With warmest personal regards,

Paisan RUAMVIBOONSUK
Congress President, APAO 2019 Congress
WELCOME MESSAGE
From Scientific Program Committee Chair

Dear Friends and Colleagues,

On behalf of the Scientific Program Committee, it is my honor and pleasure to welcome you to the APAO 2019 Congress in Bangkok, co-hosted by the Royal College of Ophthalmologists of Thailand.

The Scientific Program is the backbone of the Congress. Our Scientific Program Committee strives to engineer a first-class scientific program, covering all major areas of ophthalmology and visual sciences. We have anticipated more than 600 leading experts from 46 countries speaking at the congress, which will help delegates to keep abreast of the latest developments in the science, knowledge and technology of ophthalmology.

As the capital of Thailand, Bangkok is an exciting, vibrant destination with a wide range of tourist attractions and delicious cuisine that make it the perfect gateway to Southeast Asia.

I wish you all find this congress fruitful, abundance with knowledge sharing and opening avenues for future of collaborations, and of course a wonderful stay in Bangkok.

With best regards,

Dennis LAM
Chair, APAO 2019 Scientific Program Committee
Dear Friends and Colleagues,

It is my great honor and pleasure to invite you to the 2019 Congress of the Asia-Pacific Academy of Ophthalmology in Bangkok, co-hosted by the Royal College of Ophthalmologists of Thailand and co-sponsored by the European Society of Ophthalmology (SOE) internationally.

As the region’s preeminent meeting for ophthalmologists and visual scientists, the APAO 2019 Congress features more than 600 internationally-renowned speakers presenting the latest discoveries and ideas in all major ophthalmic subspecialties. In addition to acquiring new knowledge and skills the annual Congress also provides delegates with an excellent opportunity to network and collaborate with peers and friends. Furthermore, Congress attendees can enjoy magnificent and historic palaces and temples, along with delicious cuisine and exciting nightlife, in Bangkok, one of Asia’s most-loved cities.

It is impossible to have a successful APAO Congress without the hard work of numerous individuals who selflessly devote many hours to its success. These include: the authors who share their expertise and best practices; the reviewers whose industry enables the organizers to craft an intellectually stimulating program; and the many APAO members who staunchly support the Congress in myriad ways. I thank all for their prodigious efforts. Lastly and most importantly, I would like to take this opportunity to thank and compliment the organizing committee for their excellent work and unstinting dedication.

We very much look forward to seeing you at the 34th APAO Congress in Bangkok. It is truly an event not to be missed!

With very best regards,

Charles McGHEE
President, Asia-Pacific Academy of Ophthalmology
Dear Friends and Colleagues,

It is both my honor and pleasure to welcome you to the 34th Asia-Pacific Academy of Ophthalmology (APAO) Congress in Bangkok, co-hosted by the Royal College of Ophthalmologists of Thailand and co-sponsored by the European Society of Ophthalmology (SOE).

On behalf of APAO and our Member Societies, I would like to express our heartfelt thanks to Dr Paisan Ruamviboonsuk, APAO 2019 Congress President, and our colleagues at the Royal College of Ophthalmologists of Thailand, for bringing us this wonderful and outstanding meeting. At the time of writing, we already have nearly 6000 registered delegates from 86 countries. I would also like to convey our deepest gratitude to Prof Dennis Lam, APAO 2019 Scientific Program Committee Chair, and his 108-member-strong Scientific Program Committee, for their unwavering commitment, without which we would not be able to put together such a fantastic scientific program, with more than 600 distinguished speakers from 46 countries. I am confident this would be one of the most outstanding scientific programs ever presented in our region.

Above all, we are truly grateful to all of you who have chosen to join us here in Bangkok for the 34th 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 Bangkok has to offer.

Warmest personal regards,

Clement THAM
Secretary-General and CEO,
Asia-Pacific Academy of Ophthalmology (APAO)
Chair, APAO Congress Standing Committee
Dear Colleagues and Friends,

It is a privilege and honor for the Royal College of Ophthalmologists of Thailand (RCOPT) to co-host the 34th APAO Congress with the Asia-Pacific Academy of Ophthalmology.

The APAO Congress is certainly an outstanding platform to promote, foster and disseminate our research in a collegial and friendly atmosphere. It is where local meets global. We would like to express our satisfaction at hosting this congress which has a program that condenses the knowledge, dynamics, challenges and relevant contribution of ophthalmological research in the region.

Bangkok has so much to offer our visitors, including friendly people, amazing beaches, international fine dining, diverse night life and shopping and a rich closeness with our beautiful natural environment. A warm welcome from the RCOPT to everybody here at the conference and heartfelt thanks to the APAO who have poured such great effort and competence into making it a success. I am confident that the people of Thailand will do what they do best – to make you feel very welcome.

With very best regards,

Anuchit POONYATHALANG
President, The Royal College of Ophthalmologists of Thailand
WELCOME MESSAGE
From President, European Society of Ophthalmology

Dear Colleagues and Friends,

It is with great pleasure that I welcome you to the APAO Congress in Bangkok.

I am very grateful and honored to have served as both guest and co-sponsor of the Congress. The annual congress is a fantastic opportunity to interact with the world’s leading professionals and experts from across the ophthalmology field. It is also a time to meet with old friends and share the expertise and best practices with colleagues. I hope that the discussion and presentations taking place over the next four days will lead to greater achievements in the field of ophthalmology both in the Asia-Pacific region and all around the world.

As ophthalmologists, we need to be open-minded to gather and share new insights in our field to let our patients benefit from the cross-fertilization of knowledge. I trust that we shall all enjoy a wonderful Congress for international friendship.

With warmest personal regards,

[Signature]

Jan Tjeerd DE FABER
President, European Society of Ophthalmology
Asia-Pacific Academy of Ophthalmology (APAO)

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.

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Email: secretariat@apaophth.org  
Website: www.apaophth.org
The Royal College of Ophthalmologists of Thailand (RCOPT)

The Royal College of Ophthalmologists of Thailand was established in 1978 as the Ophthalmological Society of Thailand and became the Royal College of Ophthalmologists of Thailand under the Royal Patronage of His Majesty King Bhumibol Adulyadej on June 12, 1995. The RCOPT is responsible for Thai ophthalmology resident curriculum and conducts the Thai Board of Ophthalmology examinations. It also organizes scientific meetings and other public eye health-related activities, networks among ophthalmologists, and provides funds and support for academic and research activities in Thailand. The RCOPT also facilitates connections among Thai ophthalmologists, residents, fellows and those from other countries.

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Website: www.rcopt.org
European Society of Ophthalmology (SOE)

SOE website: http://soevision.org
Congress website: http://soe2019.soevision.org

SOE was founded in 1956 as the Societas Ophthalmologica Europea (SOE), with the aim of promoting ophthalmology in Europe and stimulating co-operation between European Ophthalmologists and their national societies. Today SOE has 44 National Society Members and Associate Members.

The next SOE Congress, SOE 2019, takes place from June 13 - 16, 2019, in Nice, France. SOE 2019, in close collaboration with European subspecialty and educational ophthalmology organizations, offers a plethora of sessions from some of the best lecturers and teachers in the world sharing their knowledge over the whole spectrum of ophthalmology. SOE 2019 offers a world-class scientific program for all Ophthalmologists and a packed YO programme. For the latest session details go to www.SOE2019.org.

Come and see us at stand G105 to find out more.
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(Singapore)  
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(Singapore)  
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V

U

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Asia-Pacific Vitreo-retina Society (APVRS) Congress 2019

Shanghai International Convention Center, China
November 22-24, 2019
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<tr>
<th>Time</th>
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<th>Mar 6 (Wed) Day 1</th>
<th>Mar 7 (Thu) Day 2</th>
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*Breakfast Symposium: 45 minutes; S=Sponsored Programs with no CME points.
<table>
<thead>
<tr>
<th>Mar 8 (Fri) Day 3</th>
<th>Mar 9 (Sat) Day 4</th>
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<tr>
<td>Charity Run</td>
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<td>(06:30-08:00)</td>
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<tr>
<td>Breakfast Sympoia (S)*</td>
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<td>(08:00-08:45)</td>
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<tr>
<td>Break</td>
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<tr>
<td><strong>APAO Scientific Sessions</strong> (09:00-10:30)</td>
<td><strong>APAO Scientific Sessions</strong> (09:00-10:30)</td>
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<tr>
<td><strong>Surgical Video Symposium (S)</strong>* (09:30-10:30)</td>
<td><strong>APAO Scientific Sessions</strong> (11:00-12:30)</td>
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<td><strong>APAO Scientific Sessions</strong> (11:00-12:30)</td>
<td><strong>APAO Scientific Sessions</strong> (11:00-12:30)</td>
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<tr>
<td>Break</td>
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<tr>
<td><strong>Lunch Sympoia (S)</strong>* (13:00-14:00)</td>
<td><strong>APAO LDP Alumni Reception</strong> (13:00-14:00)</td>
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<tr>
<td>Break</td>
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<tr>
<td><strong>APAO Scientific Sessions</strong> (14:30-16:00)</td>
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<tr>
<td>Break</td>
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<tr>
<td><strong>APAO Scientific Sessions</strong> (16:30-18:00)</td>
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<tr>
<td><strong>Young Ophthalmologists' Night</strong> (18:00-20:00)</td>
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</table>

**Breakfast Sympoia**: 45 minutes; S=Sponsored Programs with no CME points.
## SCIENTIFIC SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>09:00-10:30</td>
<td>Plenary Hall 1</td>
<td>Glaucoma</td>
<td>SYM</td>
<td>Angle Closure</td>
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<tr>
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<td>Plenary Hall 2</td>
<td>Cataract</td>
<td>SYM</td>
<td>Conquering the Rock-Hard Cataract</td>
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<tr>
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<td>Plenary Hall 3</td>
<td>Retina (Medical)</td>
<td>SYM</td>
<td>The Unmet Need in Retinal Diseases</td>
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<tr>
<td></td>
<td>Meeting Room 1</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>Tips &amp; Tricks for Successful Refractive Surgeries</td>
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<tr>
<td></td>
<td>Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>CC</td>
<td>APSPOS Symposium: Challenging Cases in Pediatric and Strabismus</td>
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<tr>
<td></td>
<td>Meeting Room 3</td>
<td>Neuro-Ophthalmology</td>
<td>SYM</td>
<td>Anomalous Optic Discs: Not Just Something to be Admired!</td>
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<tr>
<td></td>
<td>Meeting Room 4</td>
<td>Retina (Surgical)</td>
<td>SYM</td>
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</tr>
<tr>
<td></td>
<td>Ballroom</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Anterior Lamellar Keratoplasty</td>
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<tr>
<td></td>
<td>C Ground Meeting Room 1</td>
<td>Ocular Imaging</td>
<td>SD</td>
<td>AI in Ophthalmology Symposium: AI and Latest Developments in Ocular Imaging</td>
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<tr>
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<td>C Ground Meeting Room 2</td>
<td>Visual Sciences</td>
<td>SYM</td>
<td>Refractive Errors and Myopia: From Animal Models to Humans</td>
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<tr>
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<td>Auditorium</td>
<td>Miscellaneous</td>
<td>SYM</td>
<td>APAO Leadership Development Program 2019-20 Orientation Class 1</td>
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<tr>
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<td>Boardroom 2</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>IC</td>
<td>Pearls and Pitfalls in DMEK Surgery</td>
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<tr>
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<td>Boardroom 3</td>
<td>Ocular Oncology &amp; Pathology</td>
<td>FP</td>
<td>Rapid Fire Ocular Oncology and Pathology Update Session</td>
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<tr>
<td></td>
<td>Boardroom 4</td>
<td>Academia, Research, Teaching and Education in Ophthalmology</td>
<td>SYM</td>
<td>APAO-ICO Sessions for Educators: How do Trainees Become Competent Surgeons? How It’s Done in Different Countries</td>
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<tr>
<td></td>
<td>Lotus Room</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>VS</td>
<td>2019 APAO Oculoplastic Video Cram Course</td>
</tr>
<tr>
<td>11:00-12:30</td>
<td>Plenary Hall 1</td>
<td>Glaucoma</td>
<td>SYM</td>
<td>New Frontiers in Glaucoma: From Bench to Bedside</td>
</tr>
</tbody>
</table>

**Day 1 – Mar 6, 2019 (Wednesday)**

CC = Challenging Cases   FP = Free Paper   IC = Instruction Course   PD = Panel Discussion   SD = Subspecialty Day   SYM = Symposium   VS = Video Symposium   WS = Workshop
## Day 1 – Mar 6, 2019 (Wednesday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>08:00-08:45</td>
<td>Plenary Hall 2</td>
<td>Cataract</td>
<td>VS</td>
<td>Cataract Video Complications – You Make the Call</td>
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<tr>
<td>08:45-09:30</td>
<td>Plenary Hall 3</td>
<td>Retina (Medical)</td>
<td>SYM</td>
<td>Updates on Diabetic Retinopathy</td>
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<tr>
<td>09:30-10:15</td>
<td>Meeting Room 1</td>
<td>Refractive Surgery</td>
<td>SYM</td>
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<tr>
<td>10:15-10:50</td>
<td>Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>Dangerous Diplopia in Children</td>
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<tr>
<td>10:50-11:30</td>
<td>Meeting Room 3</td>
<td>Ocular Imaging</td>
<td>SYM</td>
<td>What’s New in Anterior Segment Imaging?</td>
</tr>
<tr>
<td>11:30-12:15</td>
<td>Meeting Room 4</td>
<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
<td>SYM</td>
<td>Clinical Cases Based Diagnosis and Treatment of Infectious Uveitis Prevalent in Asia-Pacific Region</td>
</tr>
<tr>
<td>12:15-14:15</td>
<td>Ballroom</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Cornea Society Symposium: Evaluation &amp; Treatment of Ectatic Corneal Disease</td>
</tr>
<tr>
<td>14:15-14:55</td>
<td>C Ground Meeting Room 1</td>
<td>Ophthalmic Epidemiology, Telemedicine, Big Data &amp; AI</td>
<td>SD</td>
<td>AI in Ophthalmology Symposium: Deployment of AI for DR Screening in the Real World</td>
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<tr>
<td>15:45-16:25</td>
<td>Auditorium</td>
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<td>SYM</td>
<td>APAO Leadership Development Program 2019-20 Orientation Class 2</td>
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<tr>
<td>16:25-17:05</td>
<td>Boardroom 2</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>IC</td>
<td>Lessons Learned in East Asian Eyelid Surgery</td>
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<tr>
<td>17:05-17:45</td>
<td>Boardroom 3</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>FP</td>
<td>Rapid Fire Cornea, External Eye Diseases &amp; Eye Banking Update Session 1</td>
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<tr>
<td>17:45-18:25</td>
<td>Boardroom 4</td>
<td>Prevention of Blindness</td>
<td>SYM</td>
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<td>19:05-20:05</td>
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<td>Orbital and Oculoplastic Surgery</td>
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<td>20:05-20:45</td>
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<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
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### Day 2 – Mar 7, 2019 (Thursday)

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<tr>
<td>09:00-10:00</td>
<td>Plenary Hall 1</td>
<td>Glaucoma</td>
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<td>WGA Symposium: Hot Topic in Glaucoma</td>
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<td>10:00-11:30</td>
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<td>Cataract</td>
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<td>11:30-12:30</td>
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<td>Retina (Medical)</td>
<td>SYM</td>
<td>Updates on AMD &amp; Variants Including PCV</td>
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### Day 2 - Mar 7, 2019 (Thursday)

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<td>What’s New in Clinical Neuro-Ophtalmology?</td>
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<td>Current Imaging and Investigation Modalities in the Management of Uveitis</td>
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<td>Conquering Capsule Complications – My Best Teaching Videos</td>
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<td>Orbital and Oculoplastic Surgery</td>
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<td>Oculoplastic Conditions and Techniques You Don’t Want to Miss</td>
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<td>Management of Open-Globe Posterior Segment Trauma</td>
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<td>What’s New in Retinal Imaging?</td>
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<td>Expanding Human Resources to Prevent Blindness</td>
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<td>Academia, Research, Teaching and Education in Ophthalmology</td>
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## Day 2 - Mar 7, 2019 (Thursday)

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<td>AI in Medicine Symposium: Social Aspects of AI</td>
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<td>Visual Sciences</td>
<td>SYM</td>
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<td>Rapid Fire Pediatric Ophthalmology, Strabismus, and Prevention of Blindness Update Session</td>
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<td>Glaucoma</td>
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<td>Micro-Invasive Glaucoma Surgery</td>
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## Day 3 - Mar 8, 2019 (Friday)

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### Day 3 – Mar 8, 2019 (Friday)

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<td>IOL Fixation with Deficient Capsular Support</td>
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<td>Ophthalmic Epidemiology, Telemedicine, Big Data &amp; AI</td>
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<td>Predictors of High Myopia and Pathologic Myopia</td>
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<td>Orbit Related Strabismus – Myths and Facts</td>
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<td>APAO–NANOS Symposium: Neuro-Ophthalmologic Emergencies – How to Tell When It is an Emergency and When It is Not</td>
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**Legend:**
- CC = Challenging Cases
- FP = Free Paper
- IC = Instruction Course
- PD = Panel Discussion
- SD = Subspecialty Day
- SYM = Symposium
- VS = Video Symposium
- WS = Workshop
### Day 3 – Mar 8, 2019 (Friday)

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<td>Refractive Cataract/IOL Surgery – My Top 5 Pearls</td>
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<td>Corneal &amp; Intraocular Implants for Refractive Corrections (ICRs, Phakic IOL, etc)</td>
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<td>What's New for Macular Surgery</td>
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<td>Visual Sciences</td>
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<td>Office-Based Oculoplastic Procedures</td>
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<td>Plenary Hall 1</td>
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<td>CC</td>
<td>Case Presentation and Discussion</td>
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<tr>
<td></td>
<td>Plenary Hall 2</td>
<td>Cataract</td>
<td>SYM</td>
<td>Master Class: Managing PC Rupture and Vitreous Prolapse</td>
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<tr>
<td></td>
<td>Plenary Hall 3</td>
<td>Retina (Medical)</td>
<td>SYM</td>
<td>Technology and Innovations in Medical Retina</td>
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<td></td>
<td>Meeting Room 1</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>Keratoconus and Refractive Management (Basic Science, Diagnosis, ICRs, Others)</td>
</tr>
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<td></td>
<td>Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>Genetics</td>
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<td></td>
<td>Meeting Room 3</td>
<td>Ocular Imaging</td>
<td>SYM</td>
<td>What’s New in Glaucoma Imaging?</td>
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<td></td>
<td>Meeting Room 4</td>
<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
<td>SYM</td>
<td>Immunomodulatory Intervention in the Treatment of Recalcitrant Non-Infectious Uveitis</td>
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<tr>
<td></td>
<td>Ballroom</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>EVER Symposium: Innovative Strategies for Corneal Regeneration</td>
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<tr>
<td></td>
<td>C Ground Meeting Room 1</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>IC</td>
<td>Orbit, Oculoplastic Surgery, and Ophthalmic Oncology – What’s New</td>
</tr>
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<td></td>
<td>C Ground Meeting Room 2</td>
<td>Visual Sciences</td>
<td>SYM</td>
<td>Stem Cells to Translation</td>
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<tr>
<td></td>
<td>Auditorium</td>
<td>Miscellaneous</td>
<td>SYM</td>
<td>APAO Leadership Development Program 2019-20 Orientation Class 4: Insights Discovery Program - Getting Your Message Across</td>
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## Day 3 – Mar 8, 2019 (Friday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>09:00 – 10:30</td>
<td>Plenary Hall 1</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>IC</td>
<td>Advanced Interpretation of OCT and OCTA for General Ophthalmologists – Front to the Back of the Eye</td>
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<tr>
<td></td>
<td>Plenary Hall 2</td>
<td>Cataract</td>
<td>SYM</td>
<td>Update on Cataract Surgery Pharmacology</td>
</tr>
<tr>
<td></td>
<td>Plenary Hall 3</td>
<td>Retina (Medical)</td>
<td>FP</td>
<td>Rapid Fire Retina (Medical) Update Session 1</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 1</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>Challenging Cases and Complications: How to Solve Them</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>What’s New in Pediatric Ophthalmology and Strabismus</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 3</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>FP</td>
<td>Rapid Fire Cornea, External Eye Diseases &amp; Eye Banking Update Session 2</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 4</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>IC</td>
<td>Treatment of Retinopathy of Prematurity: Diagnosis and Management</td>
</tr>
<tr>
<td></td>
<td>Ballroom</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Advances in Corneal/Anterior Segment Imaging</td>
</tr>
<tr>
<td></td>
<td>C Ground Meeting Room 1</td>
<td>Ocular Oncology &amp; Pathology</td>
<td>IC</td>
<td>The Killer ‘Pearl’ that Masquerade – Retinoblastoma</td>
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<tr>
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<td>C Ground Meeting Room 2</td>
<td>Visual Sciences</td>
<td>SYM</td>
<td>Gene Therapy</td>
</tr>
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<td></td>
<td>Auditorium</td>
<td>Neuro-Ophthalmology</td>
<td>FP</td>
<td>Rapid Fire Neuro-Ophthalmology and Ocular Imaging Update Session</td>
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## Day 4 – Mar 9, 2019 (Friday)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
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</thead>
<tbody>
<tr>
<td>09:00-10:30</td>
<td>Plenary Hall 1</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>IC</td>
<td>APOTS Trauma Course: Concepts in Ophthalmic Trauma &amp; Intraocular Complications Mode</td>
</tr>
<tr>
<td></td>
<td>Plenary Hall 2</td>
<td>Cataract</td>
<td>SYM</td>
<td>Update on Cataract Surgery Pharmacology</td>
</tr>
<tr>
<td></td>
<td>Plenary Hall 3</td>
<td>Retina (Medical)</td>
<td>FP</td>
<td>Rapid Fire Retina (Medical) Update Session 1</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 1</td>
<td>Refractive Surgery</td>
<td>SYM</td>
<td>Challenging Cases and Complications: How to Solve Them</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>What’s New in Pediatric Ophthalmology and Strabismus</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 3</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>FP</td>
<td>Rapid Fire Cornea, External Eye Diseases &amp; Eye Banking Update Session 2</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 4</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>IC</td>
<td>Treatment of Retinopathy of Prematurity: Diagnosis and Management</td>
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<tr>
<td></td>
<td>Ballroom</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Advances in Corneal/Anterior Segment Imaging</td>
</tr>
<tr>
<td></td>
<td>C Ground Meeting Room 1</td>
<td>Ocular Oncology &amp; Pathology</td>
<td>IC</td>
<td>The Killer ‘Pearl’ that Masquerade – Retinoblastoma</td>
</tr>
<tr>
<td></td>
<td>C Ground Meeting Room 2</td>
<td>Visual Sciences</td>
<td>SYM</td>
<td>Gene Therapy</td>
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<tr>
<td></td>
<td>Auditorium</td>
<td>Neuro-Ophthalmology</td>
<td>FP</td>
<td>Rapid Fire Neuro-Ophthalmology and Ocular Imaging Update Session</td>
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</table>
# Day 4 - Mar 9, 2019 (Friday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
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<th>Type</th>
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<tbody>
<tr>
<td>11:00-12:30</td>
<td>Plenary Hall 1</td>
<td>Cataract</td>
<td>FP</td>
<td>Rapid Fire Cataract Update Session 2</td>
</tr>
<tr>
<td></td>
<td>Plenary Hall 3</td>
<td>Retina (Medical)</td>
<td>FP</td>
<td>Rapid Fire Retina (Medical) Update Session 2</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 1</td>
<td>Refractive Surgery</td>
<td>FP</td>
<td>Rapid Fire Refractive Surgery Update Session</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>IC</td>
<td>Overview of Innovations in Pediatric Cataract Surgery</td>
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<tr>
<td></td>
<td>Meeting Room 3</td>
<td>Cataract</td>
<td>IC</td>
<td>Biometry – The Way Forward</td>
</tr>
<tr>
<td></td>
<td>Meeting Room 4</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>IC</td>
<td>Recent Advances in the Diagnosis and Management of Conjunctival Tumors</td>
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<tr>
<td></td>
<td>Ballroom</td>
<td>Glaucoma</td>
<td>FP</td>
<td>Rapid Fire Glaucoma Update Session 2</td>
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<tr>
<td></td>
<td>C Ground Meeting Room 1</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>IC</td>
<td>Expanding Horizons in Oculofacial Aesthetic Surgery: Frontiers to Maximise Pearls and Minimise Perils</td>
</tr>
<tr>
<td></td>
<td>C Ground Meeting Room 2</td>
<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>FP</td>
<td>Rapid Fire Pediatric Ophthalmology and Strabismus Update Session</td>
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<tr>
<td></td>
<td>Auditorium</td>
<td>Orbital and Oculoplastic Surgery</td>
<td>FP</td>
<td>Rapid Fire Orbital and Oculoplastic Surgery Update Session</td>
</tr>
<tr>
<td></td>
<td>Boardroom 2</td>
<td>Cataract</td>
<td>IC</td>
<td>IOL Implantation in the Absence of Capsular Support</td>
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<tr>
<td></td>
<td>Boardroom 3</td>
<td>Ocular Imaging</td>
<td>FP</td>
<td>Rapid Fire Ocular Imaging Update Session</td>
</tr>
<tr>
<td></td>
<td>Boardroom 4</td>
<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
<td>FP</td>
<td>Rapid Fire Intraocular Inflammation, Uveitis, Scleritis, Ocular Oncology and Academia Update Session</td>
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<td></td>
<td>Lotus Room</td>
<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>FP</td>
<td>Rapid Fire Cornea, External Eye Diseases &amp; Eye Banking Update Session 3</td>
</tr>
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</table>
The following information is provided to make your attendance at the 34th APAO Congress in Bangkok, Thailand as pleasant as possible. If you have any queries during the Congress or require any assistance, please visit the Registration Desk where our team will be happy to help.

Event Name
The 34th Asia-Pacific Academy of Ophthalmology Congress in conjunction with the 43rd Annual Meeting of the Royal College of Ophthalmologists of Thailand

Congress Venue
Queen Sirikit National Convention Center (QSNCC)
60 Ratchadaphisek Rd, Khwaeng Khlong Toei
Khet Khlong Toei, Krung Thep Maha Nakhon 10110,
Bangkok, Thailand

Registration and Information Desk
The APAO 2019 Congress Registration and Information Desk is located in Hall A of the QSNCC and will operate during the times listed below:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Mar 5, 2019</td>
<td>16:00-18:00</td>
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<tr>
<td>Mar 6, 2019</td>
<td>07:30-18:00</td>
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<tr>
<td>Mar 7, 2019</td>
<td>07:30-18:00</td>
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<tr>
<td>Mar 8, 2019</td>
<td>07:30-18:00</td>
</tr>
<tr>
<td>Mar 9, 2019</td>
<td>07:30-12:30</td>
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</table>

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
All delegates registered for the Congress will be issued with a name badge at the Registration Desk.

Satellite Badge Printing Center
Satellite Badge Printing is available at the lobby of the Marriott Marquis Bangkok Queen’s Park. Delegate must settle their registration fees beforehand to print the badge at this Center.

Opening Dates & Time
<table>
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<th>Time</th>
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<tbody>
<tr>
<td>Mar 5, 2019</td>
<td>16:00-18:00</td>
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<tr>
<td>Mar 6, 2019</td>
<td>07:30-12:00</td>
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A delegate badge entitles you to entry to the following:
- All Scientific Sessions;
- Exhibition Hall; and
- Opening Ceremony of APAO 2019

This badge will be the official pass and must be worn at all times while on-site by the named delegate only.

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

Accompanying Persons (if any) are entitled to enter only the Exhibition Hall and Opening Ceremony of APAO 2019.

Delegate Bag and Ribbon Collection
Delegate bags and ribbons are available for pickup at the “Delegate Bag Pick Up” counter in Hall A. 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 2019 mobile app provides easy-to-use interactive capabilities to enhance your Congress experience. The app features all the scientific sessions and instruction courses, posters, e-posters, video abstracts, general information, floor plan, and a city map. With the utilization of the Congress App, you will have access to real-time interaction with the session speakers or panelists by posting questions at the 'Q&A' section in each individual symposium.

The app can be downloaded by scanning the QR code as shown below.

![Android App QR Code](android-app-qr-code.png)

![iOS App QR Code](ios-app-qr-code.png)

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 the Plaza:

<table>
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<th>Time</th>
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<tr>
<td>07:00-12:00</td>
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Abstract Book
A PDF copy of the abstract book is available online at http://2019.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 C-Second. There will be one poster session showcasing over 200 posters.

Session 1: No. 1 - No. 216
Poster sessions will be conducted during the morning and afternoon breaks from March 6 – 9, 2019. Delegates can use the image scanner to scan the poster. They will then be directed to a recording made by the author where applicable.

Additionally, delegates can vote for 5 of their favorite posters using the stickers found inside the delegate bag. Voting begins on March 6 at 09:00 and ends on March 8 at 12:00.

E-Poster & Video Platform
There are over 400 accepted electronic posters and 70 selected videos showcased in APAO 2019. Delegates may visit the E-Poster and Video Platform located in the Exhibition Hall C-Second. They can view e-posters via the smartphone app. They will then be directed to a recording made by the author where applicable.

In addition, delegates can vote for 5 of their favorite e-posters and videos using the platform in the Exhibition Hall and/or the Congress app. The voting period ends on March 8 at 12:00 noon.

VIP Lounge
Delegates with a VIP Pass can use the VIP Lounge located in Hall A.

Morning and Afternoon Tea
Morning and afternoon tea will be served in the Exhibition Hall.

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

Mobile Phones - Please respect the presenter and other delegates by ensuring that your mobile devices are put in silent mode during sessions.

<table>
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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>Mar 5, 2019 (Tue)</td>
<td>16:00 - 18:00</td>
</tr>
<tr>
<td>Mar 6, 2019 (Wed)</td>
<td>07:30 - 18:00</td>
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<tr>
<td>Mar 7, 2019 (Thu)</td>
<td>07:30 - 18:00</td>
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<tr>
<td>Mar 8, 2019 (Fri)</td>
<td>07:30 - 18:00</td>
</tr>
<tr>
<td>Mar 9, 2019 (Sat)</td>
<td>07:30 - 11:00</td>
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</table>

Photography in the Exhibition Hall - Attendees wishing to photograph or videotape an exhibit must obtain permission from the relevant company beforehand.

Photographing or Videotaping Scientific Sessions - Photographing and/or videotaping the scientific sessions are strictly prohibited. (Permission must be obtained in advance by media representatives.)

Certificates of Attendance
Certificates of Attendance can be downloaded through the APAO Congress system (http://congress.apaophth.org/) after the Congress. Please log in with the same email address that you used to register for the Congress.

Congress Photography
Some of the Congress sessions taking place will be filmed and recorded. There will also be a photographer present over the course of the Congress who will be capturing images. Any images will be retained and used by APAO (eg, on the APAO website, in publications, etc). If you have any concern with your photograph being taken or session recorded, please contact the APAO office.

Official Tour Desk
There will be a tour desk next to the Registration Desk to help you with information on Bangkok and booking trips in and around Bangkok while you are here.

Congress Directory

<table>
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<tr>
<th>PLACE</th>
<th>LOCATION</th>
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</thead>
<tbody>
<tr>
<td>APAO Office</td>
<td>Executive Center 1</td>
</tr>
<tr>
<td>Registration Desk</td>
<td>Hall A</td>
</tr>
<tr>
<td>Information Desk</td>
<td>Hall A</td>
</tr>
<tr>
<td>VIP Lounge</td>
<td>Hall A</td>
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<tr>
<td>Speaker Ready Room</td>
<td>Plaza</td>
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<td>Opening Ceremony</td>
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<td>Exhibition Hall</td>
<td>C-Second &amp; Plaza</td>
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<tr>
<td>Scientific Posters &amp; Videos</td>
<td>C-Second</td>
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<tr>
<td>YO Lounge</td>
<td>C-Ground</td>
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<tr>
<td>Wetlab Course</td>
<td>C-Ground</td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

Venue Information
Queen Sirikit National Convention Center
60 New Rachadapisek Road, Klongtoey, Bangkok 10110, Thailand
General Enquiries: +66 2229 3000

Queen Sirikit National Convention Center (QSNCC) is recognized as Thailand’s first world-class convention and exhibition venue. QSNCC offers state-of-the-art equipment and facilities, with services meeting international standards. With a total floor space of 65,000 m², QSNCC facilities include the Exhibition and Function Area, Plenary Hall, Ballroom and Meeting Room. Every room is fully equipped with amenities and technology, as well as the latest event equipment. Other on-site services include the Business Center, restaurants, coffee shops, and food court and beverage corner.

Site Map

Visiting Thailand
APA2019 will be held in Bangkok, the capital and most populous city of Thailand. Its friendly, lively atmosphere is a magnet for visitors from around the globe. Bangkok is a regional center for business, finance and communications. It also has plenty of activities for visitors to enjoy: a wide selection of cuisines including the exotic taste of Thai food; an abundance of shops, malls and markets; and the traditional Thai massage or a pampering treatment in an elegant spa.

For more information about Thailand, please visit the following website:
https://www.tourismthailand.org/home
Climate
The weather in Bangkok is dominated by a tropical monsoon climate. The temperature varies from 38°C to 19°C with the annual average at about 29°C. The humidity is from 66% to 82.8%. For the latest weather forecast, please visit the Thai Meterological Department website: https://www.tmd.go.th/en/7-day_forecast.php

Getting to the Congress Venue
Located on New Rachadapisek Road in central Bangkok, QSNCC is conveniently accessible by car or by public transportation. Suvarnabhumi International Airport is a 45-minutes drive from QSNCC, or can be reached via Airport Rail Link through mass transit connections from QSNCC’s MRT Subway station.

Taxi
Taxi may drop passengers at the entrance of the QSNCC.

MRT Subway
MRT Queen Sirikit National Convention Center station is right in front of the QSNCC, reached by following Exit No. 3.

BTS Skytrain
Take the BTS Skytrain to Asok interchange station, where visitors catch the subway to MRT QSNCC station. Follow Exit No. 3 to the venue.

Bus
Take bus No. 136 and 185.

Car
QSNCC has its own parking area and an overflow parking lot in the adjacent Thailand Tobacco Monopoly for 1300 vehicles. Alternatively, park-and-ride lots are located at 12 major MRT and BTS stations, while parking buildings are available only on Saturday and Sunday at Chamchuri Square and Jasmine City Building. From these locations, you can catch the MRT Subway or BTS Skytrain (see above).

For more information, please visit the QSNCC website:

Telecommunications
You may purchase a pre-paid mobile SIM card at the airport or from a telecommunications shop and most convenience stores in Thailand.

WiFi
Complimentary WiFi is available in the QSNCC.

Tipping
Tipping is not customary in Thailand. Some restaurants, however, levy a 10% service charge and 7% value-added tax (VAT) on your bill.

Tax Refund
Goods purchased in Thailand are VAT inclusive. However, foreign visitors may receive a 7% VAT refund on luxury goods purchased from shops that participate in the ‘VAT Refund for Tourists’ scheme. A minimum expenditure of 5,000 baht (including VAT) is required and single purchases must have a value of at least 2,000 baht per day. On the day of purchase, present your passport and request the sales assistant at the store to complete the VAT Refund Application for Tourists form (P.10) and attach the original tax invoice to the form. At the airport before you check-in, you need to go to the VAT Refund Office to have your forms stamped. After going through immigration, take your stamped forms to the VAT refund windows to receive the refund.
SOCIAL PROGRAM

Opening Ceremony
Date: March 6, 2019 (Wednesday)
Time: 16:30 - 17:30
Venue: Plenary Hall 2, Queen Sirikit National Convention Center
Open to All Delegates

Welcome Reception
Date: March 6, 2019 (Wednesday)
Time: 17:30 - 18:30
Venue: Exhibition Hall, Coffee Corner at C-Second Level, Queen Sirikit National Convention Center
Open to All Delegates

Women in Ophthalmology Lunch
Date: March 6, 2019 (Wednesday)
Time: 13:00-14:00
Venue: C-Ground (near YO Lounge)
Open to All Delegates

Presidential Dinner
Date: March 6, 2019 (Wednesday)
Time: 19:00 - 21:30
Venue: Nai Lert Heritage Home
By Invitation Only

Cultural Party cum APAO Award Ceremony
Date: March 7, 2019 (Thursday)
Time: 18:30 - 21:30
Venue: Sook Siam
Fee: USD$75
Open to All Delegates

Charity Run
Date: March 8, 2019 (Friday)
Time: 06:30 - 08:00
Venue: Benchakiti Park (next to Queen Sirikit National Convention Center)
Open to All Delegates

Leadership Development Program
Alumni Reception
Date: March 8, 2019 (Friday)
Time: 13:00-14:00
Venue: C-Ground (near YO Lounge)
For APAO LDP Alumni

Young Ophthalmologists’ Night
YO Social Muay Thai & Thai Dessert Cooking Class
Date: March 8, 2019 (Friday)
Time: 18:00-19:00
Venue: Young Ophthalmologists' Lounge, Queen Sirikit National Convention Center
For Young Ophthalmologists Only

YO Networking
Date: March 8, 2019 (Friday)
Time: 19:00-21:00
Venue: Lake n’ Park Restaurant, Queen Sirikit National Convention Center
Asia-Pacific Journal of Ophthalmology

Editor-in-Chief: Dennis Lam, MD

The Asia-Pacific Journal of Ophthalmology (APJO) is a bimonthly, online-only, peer-reviewed journal for ophthalmologists and visual scientists. It is an open-access journal without any publication fee or charge for submitted or accepted articles. With an aim to foster an exchange of expertise and knowledge in the field, the APJO serves as an excellent platform where eye care specialists in the Asia-Pacific region can interact with the world’s leading ophthalmologists.

The APJO is indexed in MEDLINE/Index Medicus, Scopus, and ESCI (Emerging Sources Citation Index). It welcomes the submission of original and previously unpublished manuscripts, including clinical and basic scientific research, critical reviews on pertinent topics, perspectives giving personal viewpoints on topics with broad interests, and letters to the editor.

Contact information:
Editorial Office
Email: apjo-mail@apaophth.org

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

Our Vision • Your Education

The APAO International Fellowship Program (IFP) provides selected young ophthalmologists in the Asia-Pacific region with the opportunity to further their education by improving their clinical skills, surgical experience and research skills at internationally renowned training centers around the world.

Details

• Up to 5 fellowships are offered per year in any subspecialty area.
• Fellowships can last for 3 or 12 months.
• Fellows are matched with 1 of 13 internationally renowned training centers in different countries in the Asia-Pacific region and beyond.
• Fellows can receive up to US$1000 for airfare and an allowance of US$200 per month.

Eligibility Requirements

• Applicants should be from an APAO member nation.
• They must have completed basic residency training in ophthalmology.
• They should be younger than age 40.
• Applicants must also have at least one original scientific publication in an indexed peer-reviewed journal.
JOSE RIZAL MEDAL
The Jose Rizal Medal recognizes 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.

Prof Tien-Yin Wong completed medical school from the National University of Singapore (NUS) as a President’s scholar, clinical residency training in ophthalmology at the Singapore National Eye Centre (SNEC), and medical retinal fellowships at the University of Wisconsin, Madison, USA and the University of Sydney, Australia. He obtained his MPH and PhD from the Johns Hopkins University, Baltimore, USA.

He is currently Academic Chair and Medical Director at the SNEC, one of the largest tertiary eye hospitals in Asia, with a faculty of 70 ophthalmologists managing 350,000 outpatient visits and 40,000 surgeries and procedures annually. SNEC’s research division, the Singapore Eye Research Institute (SERI), is a leading eye research institute, with 200 research faculty and staff producing more than 3000 peer-reviewed publications since its inception. Prof Wong has served as SERI’s Executive Director (2009-2013), and is currently Chairman of its Board. Prior to this, Prof Wong was Chair of the Department of Ophthalmology, NUS, and Chair of Department of Ophthalmology, Royal Victorian Eye and Ear Hospital, University of Melbourne, Australia.

Prof Wong is a retinal specialist, with a clinical and research focus on macular and retinal diseases, particularly on diabetic retinopathy and age-related macular degeneration. He leads a broad-based research program comprising epidemiological, clinical and translational studies of retinal diseases, particularly Asian diseases, and on the application of retinal imaging. He has published over 1200 peer-reviewed papers (h-index of 128), including papers in the New England Journal of Medicine, The Lancet, The Journal of the American Medical Association (JAMA), and Nature. He has given more than 400 invited named, plenary, and symposium lectures globally, and received over US$50 million in grant funding from multiple national and international agencies. He is a two times recipient of the Singapore Translational Researcher (STaR) Award (2008 and 2014), the highest award for the most senior clinician-scientists in Singapore.

Prof Wong is currently on the editorial boards of JAMA-Ophthalmology, Ophthalmologica, and the Journal of Hypertension and previously on editorial boards of American Journal of Ophthalmology, Diabetes Care, Investigative Ophthalmology & Visual Sciences (IOVS), and British Journal of Ophthalmology. He is a Board or Council member of the International Council of Ophthalmology.
Diabetic retinopathy (DR) is a major complication of diabetes, and the leading cause of blindness among working adult population worldwide. Approximately 600 million will have diabetes by 2040, with a third having DR and 7-10% with diabetic macular edema (DME).

Over the past 3 decades, there have been major developments in tackling DR, with improved understanding of the underlying epidemiology and pathophysiology, with new approaches to prevention, screening and management. First, there is clearer understanding of the major risk factors for DR, paving the way for broad targeted systemic management. Second, there is a shift in management in DR, with increasing recognition that the previous “gold standard” treatment – laser photocoagulation therapy – does not improve vision and a significant proportion of patients continue to have worsening of vision despite laser. In this context, landmark clinical trials have provided the evidence that intravitreal anti-vascular endothelial growth factor (anti-VEGF) therapy is superior to laser and is now standard of care for DME. Third, there is rapid development in ocular imaging, particularly spectral-domain optical coherence tomography (OCT) and OCT-angiography, for risk stratification of patients with DR and DME, allowing better prognosis and management. Finally, DR screening is a universally accepted strategy for the prevention of visual impairment. DR screening technology by fundus photography, usually within a tele-ophthalmology framework, has improved screening reach to communities. Artificial intelligence has substantial potential for DR screening, with new deep learning systems showing superior performance. Despite these major advances, the “war” is not yet won, and there continues to be challenges. Many patients in the community with DR are unaware of their condition, and many countries do not have well-established screening programs. Anti-VEGF therapy continues to be expensive, and new drugs are needed to tackle non-responders and have not shown superior efficacy. This lecture will cover progress made and challenges that remain in our continuing battle with DR.
Prof Ke Yao is the current President of Chinese Ophthalmological Society, Member of Academia Ophthalmologica Internationalis, the Chief of Eye Institute of Zhejiang University, China and the Chief of Eye Center, 2nd Affiliated Hospital of Zhejiang University School of Medicine, China. He earned his Medical Degree with honors at Shanghai Second Medical University in 1988. Then he finished his 2-year fellowship at the University Eye Hospital in Basel, Switzerland. He was invited to the United States as visiting scholar twice for a total of 6 months.

Prof Yao has a special interest in anterior segment eye diseases. In the early 1990s, he was the first surgeon to design and use the asphero-iseikonic intraocular lens (IOL) in clinic nationwide in China. In order to recognize Prof Yao's contribution on IOL development, he got the Chinese National Award of Science and Technology Progress in 1990, which is the highest honor in science and technology in China. He was also one of the first surgeons to perform cataract phacoemulsification in China, invented the manual small-incision cataract surgery to lower the surgical cost for patients and improved the technique for combined viscocanalostomy and phacoemulsification surgery.

Besides the President of Chinese Ophthalmological Society, Prof Yao also serves as the Board of Trustees Member of International Council of Ophthalmology (ICO), Vice-President of the Asia-Pacific Association of Cataract & Refractive Surgeons (APACRS), President of the Chinese Cataract Society, Regional Secretary and Council Member of Asia-Pacific Academy of Ophthalmology (APAO), Fellow of Academy of Asia-Pacific Professors of Ophthalmology (AAPPO), and the only ophthalmologist from mainland China nominated as a member of the International Intra-Ocular Implant Club, which is the world-famous organization for top and elite cataract surgeons.

Prof Yao has received a number of awards in recognition of his work. He got the Alfred-Vogt Award, the highest ophthalmology award in Switzerland in 1990, the Chinese National Award of Science and Technology Progress in both 1990 and 2007, the APACRS Gold Award, APACRS Certified Educator Award, US-Sino Ophthalmology Golden Key Award and US-Sino Ophthalmology Golden Apple Award etc. So far, he and his team have received over 30 national and provincial grants.

Prof Yao has published 362 clinical and scientific papers in Chinese and...
Cataract Surgery in China: Femtosecond Laser-Assisted Cataract Surgery (FLACS)

Conquering the Rock-Hard Cataract
Mar 6, 2019
09:00-10:30
Plenary Hall 2

With the rapid development of China’s economy and aging process, China is still one of the countries with the most serious blindness and visual impairment in the world. Therefore, it is a great challenge to cure cataract blindness. In the past 5 years, the volume and cataract surgical rate in China have been steadily improved. In 2017, there were 3.05 million cases of cataract surgery in China, with cataract surgical rate reaching 2205.

The use of femtosecond lasers in cataract surgery has recently become popular. In 2010, LenSx is approved by the Food and Drug Administration in the United States, and in 2013, approved by the China Food and Drug Administration for clinical using in China. There are more than 150 hospitals to practice this new procedure and more than 20,000 cases of femtosecond laser-assisted cataract surgery (FLACS) in China in 2016. In our eye center, there are more than 1000 FLACS cases each year, accounting for 10% of the overall cataract surgeries last year.

Femtosecond laser technology was used to perform lens fragmentation, anterior capsulotomy, and self-sealing corneal incisions in cataract surgery. The FLACS technology offers numerous advantages over current surgical techniques. Two recent meta-analyses found that FLACS was more effective than conventional phacoemulsification in reducing endothelial cell loss and postoperative central corneal thickening and that it achieved better visual outcomes. In addition, a study about hard nucleus cataract showed that, compared with conventional phacoemulsification surgery, FLACS can save phacoemulsification power and reduce corneal edema and endothelial cell loss, which provides faster visual rehabilitation in patients with hard-nucleus cataracts. However, pre-existing dry eye patients who underwent FLACS had more severe ocular surface staining than those with conventional phacoemulsification. Besides, femtosecond laser-created clear corneal incisions (CCIs) caused more surgically induced astigmatism than manually created CCIs, which could have resulted from inaccurate or uncertain corneal incision positioning of the femtosecond machine. Therefore, we should treat FLACS dialectically.
Prof Nila Moeloek is currently serving as the Minister of Health, Republic of Indonesia, a post that she has been holding since 2014. Prior to that, she was Indonesian President’s Special Envoy on the Millennium Development Goals (MDGs) from 2010 to 2014. Under her leadership, Office of President's Special Envoy on MDGs designed, developed and implemented Pencerah Nusantara program – an innovative, social movement in the field of health, particularly primary health services (Puskesmas) in a number of remote and underserved areas in Indonesia; Indonesia MDG Awards from 2011 to 2014; and an online Partnership Map for Development which contains data of cross-sector and multi-actor partnerships for achieving the MDGs. Some of these innovative programs continue to be developed and implemented on a larger scale during her current tenure as the Minister of Health.

As a professor at the Faculty of Medicine University of Indonesia, Prof Moeloek has authored more than 250 scientific works in the form of papers and books. Furthermore, she has been active in chairing a number of high-profile organizations in Indonesia, such as Chairperson of Women’s Organization Dharma Wanita, President of Indonesian Ophthalmologists Association, and President of Indonesian Cancer Foundation.

Prof Moeloek earned a degree as an ophthalmologist at the Faculty of Medicine University of Indonesia. She then earned a PhD degree in ophthalmology (with cum laude) in 2003. In 2007, she was appointed as professor of the Faculty of Medicine University of Indonesia.

Currently, she is still serving as a board member of the Partnership for Maternal, Newborn and Child Health (PMNCH), an international organization established to implement the United Nations Secretary General’s strategic initiatives for promoting maternal and child health across the world. In addition, she is also serving as an advisory board member of EAT Forum – a global initiative focusing on the issues of food, health, and sustainability.
Tumor of the Eye in Indonesia

Recent Advances in Orbital and Oculoplastics
Mar 7, 2019
11:00 -12:30
Lotus Room

The healthy eye is a prerequisite requirement for the better quality of human resources. The Right to Sight, Vision 2020 program is the target and challenge for everyone in the eye health field. The most critical factor is the constant development of knowledge and the practicality of the system which will help to decrease the number of patients with eye disease, whether it is caused by infection, degenerative diseases, congenital, trauma, and tumor.

Tumor of the eye has unknown causes and requires comprehensive management. The ideal situation is early detection to prevent the unwanted result of radical treatment. Unlike cataract, the treatment of an eye tumor on most occasions ends in blindness, aesthetic issues or even worse, death in patients with malignancy. The expectation of patients with eye tumor is the highest among other eye problems.

Blindness from eye tumor is mostly caused by the eyelid and conjunctival tumor (68%). It might look simple as it is easily seen in these 2 areas, yet causes the highest rate. We can only imagine how hard it is for a patient to agree to have their eye taken out, even exenteration. These radical surgeries will permanently change their aesthetic apperance, hence their life.

In Dr. Cipto Mangunkusumo Hospital, an Indonesian national referral hospital, the rate of exenteration is as high as 12-18 eyes/year (2016-2018). We can ask ourself some questions: Shall we study neoplasms in molecular biology aspect or influence our people’s way of thinking to come as early as possible?
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.

Dr Jason Yam is Head of Paediatric Ophthalmology and Strabismus Services at the Hong Kong Eye Hospital, and Assistant Professor at the Chinese University of Hong Kong. He is well trained in Pediatric Ophthalmology and Strabismus, as well as Pediatric Ocular Genetics. He has completed observerships on Pediatric Ophthalmology and Strabismus in Great Ormond Street Hospital (2011), with Dr David Guyton of Johns Hopkins Hospital (2011), and with Dr Kenneth Wright in Los Angeles (2012); ocular genetics with Dr Janey Wiggs of Harvard Medical School (2016), with Dr Alex Levin of Wills Eye Hospital (2017), and Baylor College of Medicine at Texas Children Hospital (2017); and retinoblastoma with Dr Carol Shields of Wills Eye Hospital (2017).

Dr Yam has contributed enormously to developments in children eye care throughout the Asia-Pacific region, and also globally. In 2016, he was elected the Secretary-General of Asia-Pacific Strabismus and Paediatric Ophthalmology Society (APSPOS) at the age of 35. In 2017, he has initiated and was subsequently elected as Congress President of the Inaugural APSPOS Congress held in Hong Kong, with attendance of over 400 delegates from 20 countries. This set up the model of APSPOS Congresses to be held every 2 years at different Asia-Pacific locations. In 2016, Dr Yam has co-founded the Hong Kong Paediatric Ophthalmology and Strabismus Group, which subsequently became society member of the International Paediatric Ophthalmology and Strabismus Council (IPOSC) and World Society of Paediatric Ophthalmology and Strabismus (WSPOS). He was also elected the Society Representative of APSPOS in the International Council of Ophthalmology (ICO), IPOSC Council Representative (Hong Kong), and WSPOS Non-strabismus Leader, International Committee of American Association for Paediatric Ophthalmology and Strabismus (AAPOS), and Council Member of Chinese Paediatric Ophthalmology Society in China, and Treasurer of Hong Kong Ophthalmological Society.

Dr Yam served as the Pediatric Ophthalmology & Strabismus Subspecialty Liaison of World Ophthalmology Congress (WOC) consecutively in 2016 and 2018, Pediatric Ophthalmology & Strabismus Subspecialty Secretary of Asia-Pacific Academy of Ophthalmology (APAO) Congresses in 2016, 2017, 2019, and Congress Secretary and Pediatric Ophthalmology & Strabismus Subspecialty Host Coordinator of APAO Congress Hong Kong in 2018, Advisory Committee of AsiaARVO Brisbane 2017, one of the organizers of AAPOS/CAPOS Congress.
Dr Yam also serves in the ICO Society Relations & Leadership Development Committee, actively contributing to global society relations. He is the Secretary of APAO Public Education Committee, in charge of the public education development in the whole Asia-Pacific region. He is committed to teaching and training, serving in the APAO Ophthalmic Education Committee, and is in charge of undergraduate medical student teaching and subspecialty fellowship program in pediatric ophthalmology at his university.

Dr Yam has dedicated himself to pediatric ophthalmology research too. He has received over US$6.5 million in research funding. Notably, his Low-Concentration Atropine for Myopia Progression (LAMP) trial was the first placebo-controlled randomized controlled trial of 438 subjects to provide evidence for 0.05% atropine on myopia control, which confers clinical impact to millions of children worldwide. He is the Principal Investigator of Hong Kong Children Eye Study, an epidemiological cohort of 30,000 children and their parents for detailed phenotypic and genotypic characterization. He has authored over 40 publications, 1 book, and 3 book chapters in children eye diseases. He has chaired 16 symposia, and has delivered 3 keynote lectures, 30 invited lectures, and presented 45 conference papers. Dr Yam serves as editorial members of 5 international journals, and has been bestowed 10 international awards, including APAO Distinguished Service Award, and Inaugural APSPOS Young Investigator Award.

Combating Myopia – From Epidemiology to Clinical Interventions

Prevention of Myopia Progression
Mar 7, 2019
09:00-10:30
Meeting Room 2

Myopia is a global health threat. By year 2025, it is predicted approximately 50% and 10% of world’s population being myopic and highly myopic, respectively. Notably, high myopia is associated with sight-threatening complications, including presenile cataract, glaucoma, retinal detachment, and choroidal neovascularization etc. A comprehensive approach to study its prevalence, risk factors, and clinical interventions is important for effective myopia control. In this lecture, the author will present his works on myopia, including Hong Kong Children Eye Study (HKCES) and Low-concentration Atropine for Myopia Progression (LAMP) Study.

The HKCES is an ongoing population-based cohort of children aged 6-8 years and their parents. Our first phase has determined the prevalence and risk factors of childhood myopia, together with its parental influences. Entering into our second phase, the cohort is recruiting a total of 30,000 families for detailed phenotype and genotype evaluations, and biobank establishment.

The LAMP Study is the first placebo-controlled randomized controlled trial of 438 children aged 4 to 12 years on low-concentration atropine of 0.05%, 0.025%, 0.01%, and placebo. Our first phase has proven that low-concentration atropine is effective compared with placebo control, and that 0.05%, 0.025%, and 0.01% atropine reduce myopia progression along a concentration-dependent response, and were all well tolerated. Compared with placebo group at 1 year, 0.05%, 0.025% and 0.01% atropine eye drops confer a respective reduction of 67%, 43%, 27% in spherical equivalent progression, and 51% 29%, 12% in axial length elongation.
APAO AWARDS

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.

Mark GILLIES
Australia

Dipak NAG
Bangladesh

Dongmei LI
China

Shih-Jen CHEN
Chinese Taipei

Jeffrey PONG
Hong Kong

Santosh HONAVAR
India

Budu BUDU
Indonesia

Mitsuko YUZAWA
Japan

Sangchul YOON
South Korea

Elias HUSSEIN
Malaysia

Aye TUN
Myanmar

Sudesh SUBEDI
Nepal

Imran SAHAF
Pakistan

Cesar ESPIRITU
Philippines

Dan MILEA
Singapore

Champa BANAGALA
Sri Lanka

Wanicha CHUENKONGKAEW
Thailand

Xuan Hiep NGUYEN
Vietnam

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.
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 region.

- Craig DONALDSON, Australia
- Golam MOSTAFA, Bangladesh
- Chhour LONG, Cambodia
- Kanxing ZHAO, China
- Chi-Chun LAI, Chinese Taipei
- Jason YAM, Hong Kong
- Narpat SOLANKI, India
- Eunike CAHYANINGSIH, Indonesia
- Takeshi NAITO, Japan
- Hungwon TCHAH, South Korea
- Lee Ling CHIENG, Malaysia
- Min THANE, Myanmar
- Shree Ram SUBEDI, Nepal
- Garry BRIAN, New Zealand
- Abdul QAYYUM, Pakistan
- Philippine Academy of Ophthalmology - Retinopathy of Prematurity Working Group (PAO ROPWG), Philippines
- Marcus ANG, Singapore
- Mangala GAMAGE, Sri Lanka
- Manthanee PAIRACHAVET, 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 AWARDS

Gerd AUFFARTH
Germany

Timothy LAI
Hong Kong

Jyotirmay BISWAS
India

Vishal JHANJI
United States

Robert RITCH
United States

ACHIEVEMENT AWARDS

Celia CHEN
Australia

Shuan DAI
Australia

William ASTLE
Canada

Wencan WU
China

Mingzhi ZHANG
China

Xinyuan ZHANG
China

De-Kuang HWANG
Chinese Taipei

Uwe PLEYER
Germany
AWARDS & LECTURES

Mahesh KUMAR
India

Wai-Kit CHU
Hong Kong

Jimmy LAI
Hong Kong

Alex NG
Hong Kong

Vivek DAVE
India

Nilutparna DEORI
India

Rashmin GANDHI
India

Naresh KANNAN
India

Vikas KHETAN
India

Mahesh KUMAR
India

Nivean MADHIVANAN
India

Minu MATHEN
India

Diva MISTRA
India

Sonai MUKHERJEE
India

Akshay NAIR
India

Raja NARAYANAN
India

Nishant Vijay RADKE
India

Rengaraj VENKATESH
India

Hiroshi GOTO
Japan

Akito HIRAKATA
Japan
Yoshimune HIRATSUKA
Japan

Kazuaki KADONOSONO
Japan

Ryo KAWASAKI
Japan

Hiroko TERASAKI
Japan

Tsutomu YASUKAWA
Japan

Jae Woo JANG
South Korea

Hyeong Gon YU
South Korea

Martine JAGER
Netherlands

Nadeem BUTT
Pakistan

Sherman VALERO
Philippines

Rupesh AGRAWAL
Singapore

Anita CHAN
Singapore

Graham HOLDER
Singapore

Rahat HUSAIN
Singapore

Li KELVIN
Singapore

Yu-Chi LIU
Singapore

Boon Long QUAH
Singapore

Mohamad ROSMAN
Singapore

Chelvin SNG
Singapore

Clement TAN
Singapore

Ryo KAWASAKI
Japan
AWARDS & LECTURES

Gary YAM
Singapore

Jerry TAN
Singapore

Daniel TING
Singapore

Louis TONG
Singapore

Annmarie HIPSLEY
United States

Neil BRESSLER
United States

Michael CHIANG
United States

Sophie DENG
United States

Peter ZLOTY
United States

Suber HUANG
United States

Bennie JENG
United States

Sanjay PATEL
United States
BEST SCIENTIFIC PAPER AWARDS
The Best Scientific Paper Awards are presented to outstanding free paper abstract(s) in each of the clinical subspecialties in the submitted program.

**Academia, Research, Teaching and Education in Ophthalmology**

- Gemmy CHEUNG
  Singapore

**Cataract**

- Sudhir RACHAPALLE REDDI
  India
- Jeewan TITIYAL
  India

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

- Shahrina MAHFOOZ
  Bangladesh
- Tien-En TAN
  Singapore

**Glaucoma**

- Yu CAI
  China
- Ki Ho PARK
  South Korea

**Intraocular Inflammation, Uveitis & Scleritis**

- Harvey UY
  Philippines
- Honglu SONG
  China

**Neuro-Ophthalmology**

- Min WANG
  China

**Ocular Imaging**

- Thitiporn THONGBORISUTH
  Thailand
AWARDS & LECTURES

Ophthalmic Epidemiology, Telemedicine, Big Data & AI

Kelvin TEO
Singapore

Watanee JENCHITR
Thailand

Yuou YAO
China

Prevention of Blindness

AnnMarie HIPSLEY
United States

Vivek DAVE
India

Retina (Surgical)

Kasturi BHATTACHARJEE
India

Colin TAN
Singapore

Retinal and Oculoplastic Surgery

Stephanie YOUNG
Singapore

Kiyoung KIM
South Korea

Retina (Medical)

Divya KISHORE
India

Kasturi BHATTACHARJEE
India

Orbital and Oculoplastic Surgery

Kelvin TEO
Singapore

AnnMarie HIPSLEY
United States

Colin TAN
Singapore

Visual Sciences

Orbital and Oculoplastic Surgery

Stephanie YOUNG
Singapore

Carla LANCA
Singapore

Pediatric Ophthalmology & Strabismus

Divya KISHORE
India

Kiyoung KIM
South Korea

Ann KOSHY
India

Translational Research in Ophthalmology

Colin TAN
Singapore

Ann KOSHY
India
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 young ophthalmologists to attend the APAO Annual Congress.

Mukti MITRA
Bangladesh

Vinh SUN
Cambodia

Tsz-Kin NG
Hong Kong

Vivek DAVE
India

Kukuh PRASETYO
Indonesia

Puspha RAMAN
Malaysia

Santosh UPADHYAYA
KAFLE
Nepal

Maria MALGAPU
Philippines

Madhuwanthi DISSANAYAKE
Sri Lanka

Ha Thi Thu HA
Vietnam
Make plans to Join ARVO in Vancouver!

April 26 – April 27, 2019
Vancouver Convention Centre
Vancouver, BC

The future of imaging
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:

- Organize a screening event in your local institute / hospital
- Give lectures to patient support groups / the general public
- Participate in radio and TV shows to talk about any eye diseases and to answer questions
- Contact 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 OSNAPAO.Healio.com or email editor@healio.com to join our distribution list.
In Search of Excellence
As a highlight of the scientific program, the plenary session “In Search of Excellence” features some of the world’s leading experts who will present the latest development in their respective fields. In addition to keeping everyone abreast of the latest development regarding the new technologies, surgical techniques and treatment options available for patients, we hope that the plenary session will provide you good perspective on the current and overall ophthalmic development.

14:30 - 16:30  
Venue: Plenary Hall 2
Chair(s): Dennis LAM, Charles McGHEE, Paisan RUAMVIBOONSUK

14:30  
Global Blindness: The Progress We are Making and Still Need to Make
Hugh TAYLOR

14:38  
The Seven Myths of Artificial Intelligence in Ophthalmology
Tien-Yin WONG

14:46  
The Results of Second Clinical Study Using HLA Matched Allogeneic iPS-RPE
Masayo TAKAHASHI

14:54  
Myopia: Anatomic Changes and Consequences for Its Etiology
Jost JONAS

15:02  
Is Refractive Blindness a Global Problem Worth Pursuing Surgically?
Ronald KRUEGER

15:10  
The Rapid Transformation of Transplantation for Corneal Endothelial Diseases: An Evolution from Penetrating to Lamellar to Cellular Transplants
Charles McGHEE

15:18  
Keratoprosthesis: Current Choices and Future Development
Christopher LIU

15:26  
Disruptive Innovation & Refractive IOLs – How the Game will Change
David CHANG

15:34  
Minimally Invasive Glaucoma Surgery versus Minimally Effective Glaucoma Surgery
Richard PARRISH II

15:42  
Controlled Hypotony: New Strategy for Filtering Surgery Success
Prin ROJANAPONGPUN

15:50  
Pachychoroid: Evolving Definition
Won Ki LEE

15:58  
The Latest Developments on Anti-VEGF Treatment for Diabetic Macular Edema
Neil BRESSLER

16:06  
Surgical Advancements in Treating Refractory Macular Hole
Dennis LAM

16:14  
The Emerging Role of Molecular Genetics in the Treatment of Optic Nerve Tumors
Neil MILLER

16:22  
Progress in Treating Inherited Retinal Diseases Using Gene Therapy
Elliott SOHN
Ocular Imaging

AI in Ophthalmology Symposium: AI and Latest Developments in Ocular Imaging
The real-world application of artificial intelligence (AI), machine learning and deep learning (DL) has generated significant interest throughout the computer science and medical communities in recent years. Deep learning has revolutionized the computer vision field and achieved substantial jumps in diagnostic performance for image recognition, speech recognition, and natural language processing. In ophthalmology, this technique has shown promising diagnostic performance in detection of many ocular conditions, including diabetic retinopathy, glaucoma, and age-related macular degeneration. This session aims to cover the state-of-art AI screening technologies for slit lamp-, fundus- and optical coherence tomography (OCT)–based DL systems, the current challenges and future directions of AI implementations within the clinical practice.

09:00 - 10:30 Venue: C Ground Meeting Room 1
Chair(s): Carol CHEUNG, Paisan RUAMVIBOONSUK, Daniel TING

09:00 Al for Detection of CI-DME from Retinal Images
Paisan RUAMVIBOONSUK

09:09 AI in Retinal Photography: from Data to Approval of Government Regulator
Sang Jun PARK

09:18 AI in OCT: Detection of Early Glaucoma
Ryo ASAOKA

09:27 AI in Retinal Photography: Detection of Retinopathy of Prematurity
Michael CHIANG

09:36 AI in Slit-Lamp Imaging: Visionome Technique
Haotian LIN

09:45 AI in Smartphone Ophthalmoscopy: Screening DR
Theodore LENG

09:54 Al in OCT: What is 3D Deep Learning?
Hao CHEN

10:03 AI in Retinal Photography: Detection of Retinal Vascular Changes
Carol CHEUNG

10:12 AI in Ophthalmology: Where are We Now? What is Next?
Tien-Yin WONG

10:21 Panel Discussion

Ophthalmic Epidemiology, Telemedicine, Big Data & AI

AI in Ophthalmology Symposium: Deployment of AI for DR screening in the Real World
The emergence of deep learning offers great potential to revolutionise practice patterns in highly image-driven specialities of medicine including ophthalmology. This session aims to discuss how to translate this technology into community benefits in the context of DR screening.

11:00 - 12:30 Venue: C Ground Meeting Room 1
Chair(s): Robert CHANG, Mingguang HE, Kornwipa HEMARAT

11:00 AI for DR Screening: Where Are We Now?
Daniel TING

11:10 Head-to-Head Comparisons Between Deep Learning Vs. Human Graders in Nation-Wide DR Screening in Thailand
Kornwipa HEMARAT

11:20 Deployment of AI for Real-World DR Screening in the Intermediate-Resourced Setting
Elin PEDERSEN

11:30 Deployment of AI for Real-World DR Screening in The Low-Resourced Setting
Jorge CUADROS

11:40 Deployment of AI for Real-World DR Screening in China
Mingguang HE
ARTIFICIAL INTELLIGENCE

**AI in Medicine Symposium: AI in Medicine I**
Although ophthalmology may be the first field in medicine where artificial intelligence (AI) is shown to be able to detect certain ocular diseases, such as diabetic retinopathy, with very high accuracy. Other medical fields, such as radiology, pathology, dermatology, where imaging also comes to play important roles for screening, diagnosis, and management, also explores how to use AI to assist patient care in their fields. In this infancy stage of AI in medicine and healthcare, many studies in such fields also show promising results and potential to deploy AI in the real world in the near future. It would be very beneficial for patients if AI can bridge the gap and create seamless healthcare among different specialties. Challenges lying ahead would also be societal issues, such as data security, data sharing, approval, and deployment.

**09:00 - 10:30**  
**Venue: C Ground Meeting Room 1**  
Chair(s): Thanyanuch SANCHAT, Tarit TAERAKUL

- **09:00**  
  Key Point and Pitfalls for AI Development: Lessons from TB Screening Program  
  Krit PONGPIRUL

- **09:10**  
  AI for Genetic Study  
  Surakameth MAHASIRIMONGKOL

- **09:20**  
  Automated Pulmonary TB and Lung Cancer Screening from Chest X-Ray Using Deep Learning  
  Charturong TANTIBUNDHIT

- **09:30**  
  AI Cancer Recommendation  
  Charles DINNELL

- **09:40**  
  Application of Deep Learning in Detection of Metastatic Breast Cancer  
  Yun LIU

**10:00**  
Enable AI in Health Care  
Fred HERSCH

**10:10**  
AI in Healthcare: Bridging from Ophthalmology to Other Fields of Medicine  
Dimitri AZAR

**10:20**  
Panel Discussion

**AI in Medicine Symposium: Predicting Systemic Disease with AI**

The retina is the only organ of a body where we can actually see the appearance of blood vessels and nerve fibers in real time. Studies in the era before artificial intelligence (AI) had used changes in retinal calibers to assess cardiovascular risks. Recent studies in this era of AI use retinal images as windows to predict the risks of some other systemic diseases, not only cardiovascular. The accuracy of the prediction by AI in some studies is on par with the prediction by risk scores calculated from many risk factors. However, the “Black Box” issue on how AI analyzes retinal images to make the prediction still causes controversy.

**13:00 - 14:00**  
**Venue: C Ground Meeting Room 1**  
Chair(s): Pannet PANGPUTHIPONG

- **13:00**  
  Principles of Applying Retinal Images for Detecting Diseases Derived from Other Imaging Modality  
  Pinal BAVISHI

- **13:10**  
  Retinal Imaging with Artificial Intelligence for Screening Alzheimer’s Disease  
  Carol CHEUNG

- **13:20**  
  Application of AI in Predicting Diabetes  
  Yih-Chung THAM

- **13:30**  
  Application of AI in Epidemiology in the Era of Big Data  
  Ching-Yu CHENG

- **13:40**  
  Application of AI for Predicting Cardiovascular Risk Factors  
  Avinash VARADARAJAN

- **13:50**  
  AI for Screening New Born Infants at Risk of Visual Loss  
  Jochen KUMM

**AI in Medicine Symposium: AI in Medicine II**
Although ophthalmology may be the first field in medicine where artificial intelligence (AI) is shown to be able to detect certain ocular diseases, such as diabetic retinopathy, with very high accuracy. Other medical fields, such as radiology, pathology, dermatology, where imaging also comes to play important roles for screening, diagnosis, and management, also explores how to use AI to assist patient care in their fields. In this infancy stage of AI in medicine and healthcare,
many studies in such fields also show promising results and potential to deploy AI in the real world in the near future. It would be very beneficial for patients if AI can bridge the gap and create seamless healthcare among different specialties. Challenges lying ahead would also be societal issues, such as data security, data sharing, approval, and deployment.

14:30 - 16:00  **Venue: C Ground Meeting Room 1**  
*Chair(s): Prapowan CHAWAVANICH, Fujisawa YASUHIRO*

14:30 Development and Validation of AI Algorithm  
Panrsee RITTHIPRAVAT

14:42 AI Assisted in Skin Cancer Screening on Smartphone Application  
Saroj SUVANASUTHI

14:54 Can Deep-Learning-Based, Computer-Aided Classifier Surpass Board-Certified Dermatologists in Skin Tumour Diagnosis?  
Fujisawa YASUHIRO

15:06 AI Computing-Accelerate Analysis of DNA Sequencing Data, e.g. Personalized Cancer Medicine, Process  
Phairoj JATANACHAI

15:18 Deep Learning for Large-Scale Digital Pathology Image Analysis  
Hao CHEN

15:30 3D Deeply Supervised Network for Automated Segmentation of Volumetric Medical Images  
Pheng-Ann HENG

15:42 Panel Discussion  
Lily PENG, Daniel TING

**AI in Medicine Symposium: Social Aspects of AI**  
This symposium aims to focus on issues surrounding deployment of artificial intelligence (AI) devices in healthcare systems around the world. Many of these, including security of patient data, are essential but frequently overlooked by many researchers and general public. These, as well as ethical and legal issues surrounding the rapidly evolving nature of Digital Health will be addressed. In addition, regulations instituted in the US and around the globe to foster worldwide Digital Health Innovation will be discussed.

16:30 - 18:00  **Venue: C Ground Meeting Room 1**  
*Chair(s): Malvina EYDELMAN, Boonchai KIJANAYOTIN*

16:30 Privacy and Data Ownership in the Age of Healthcare AI  
Jochen KUMM

16:40 Data Sharing and Standardization for AI  
Boonchai KIJANAYOTIN

16:50 Blockchain and Data Sharing for AI  
Robert CHANG

17:00 Ethical & Legal Issues of AI in Medicine  
Nawanan THEERA-AMPORNPU NT

17:10 AI Approval: US FDA Perspectives  
Malvina EYDELMAN

17:20 AI Principles: Perspectives from A Tech Company  
Jarom BRITTON

17:30 The Roles of Open Source Data and AI  
Jorge CUADROS

17:40 Panel Discussion on Everything AI

**Translational Research in Ophthalmology**

**AI in Ophthalmology Symposium: AI in the Future**  
A paradigm shift in ophthalmology is occurring due to rapid advancements in artificial intelligence. The accuracy of AI is high and steadily increasing in the diagnosis of diabetic retinopathy, glaucoma, and macular degeneration. AI is able to predict cardiovascular risk, blood pressure, gender, age, and refractive error. In the future, AI will become indispensable for the screening, diagnosis, and management planning for personalized medicine.

11:00 - 12:30  **Venue: C Ground Meeting Room 2**  
*Chair(s): Victor CHONG, Robert RITCH, Boonsong WANICHWECHARUNGRUANG*

11:00 The Future of Deep Learning in Ophthalmic Imaging  
Naama HAMMEL

11:12 The Next Generation of Smart High Precision Micro-Therapeutics  
Tsoncho IANCHULEV

11:24 AI for Detection of Brain and Optic Nerve Conditions  
Dan MILEA

11:36 Deep Learning Systems for Detection of Glaucoma Using Optic Disc  
Ningli WANG

11:48 Application of AI for Glaucoma Using OCT  
Michael GIRARD

12:00 Comparison of the Deep Learning Systems for Detection of Age-Related Macular Degeneration  
Neil BRESSLER

12:12 AI for Prediction of Cardiovascular Disease Using Retinal Imaging  
Tien-Yin WONG
Cataract

Conquering the Rock-Hard Cataract
Cataracts at the extreme end of the hardness scale are rightly categorized as 'Catarocks'! In this largely video-based symposium, we have put together an international faculty to cover the challenges and ways to overcome these most demanding cases. Newer techniques are also considered.

09:00 - 10:30  **Venue: Plenary Hall 2**  
**Chair(s): Ravindran RAVILLA, Sombat SRISUWANPORN, Ronald YEOH**

09:00  The ICO Mark Tso Golden Apple Award Lecture: Cataract Surgery in China: Femtosecond Laser-Assisted Cataract Surgery (FLACS)  
Ke YAO

09:18  Challenges of the ‘Catarock’  
Ronald YEOH

09:30  Phacoing the Rock-Hard Cataract  
Abhay VASAVADA

09:42  Corneal Protection — OVD/Viscoelastic  
Steve ARSHINOFF

09:54  Manual Small Incision Cataract Surgery MICS  
Haripriya ARAVIND

10:06  Newer Strategies in Managing Hard Cataracts  
David CHANG

10:18  Strategies in the Developing World  
Ravindran RAVILLA

Cataract Video Complications — You Make the Call
A series of video cases involving cataract & 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: Plenary Hall 2**  
**Chair(s): David CHANG, Dennis LAM, Pannet PANGPUTHIPONG**

11:00  Panel Discussion 1  
Tetsuro OSHIKA, Richard PACKARD, Seng Ei TI, Patrick VERSACE
Cornea, External Eye Diseases & Eye Bank

Anterior Lamellar Keratoplasty
Anterior lamellar keratoplasty (ALK) deftly avoids one of the main complications in keratoplasty, namely, endothelial allograft rejection, and as a result, enables longer-term graft survival rates, but brings new surgical challenges and complications. This symposium introduces the evidence for long-term graft success rates in ALK and then focuses on surgical challenges, complications, and their management, as well as alternative or adjunctive surgical technologies to assist in this complex, but ultimately rewarding form of keratoplasty.

09:00 - 10:30  Venue: Ballroom
Chair(s): Rajesh FOGLA, Usanee REINPRAYOON, Donald TAN

09:00 Long-term DALK Outcomes in the Singapore Corneal Transplant Registry
Anshu ARUNDHATI

09:15 Managing Complications in DALK Surgery
Rajesh FOGLA

09:30 B. B. DALK Rescue of Perforations at the Very Beginning of the Operations
Tarek KATAMISH

09:45 Repeat DALK in Stromal Dystrophies
Donald TAN

10:00 Hemi-Automated Lamellar Keratoplasty
Jodhbir MEHTA

10:15 iOCT Guided DALK and DMEK
Namrata SHARMA

Cornea Society Symposium: Evaluation & Treatment of Ectatic Corneal Disease
Keratoconus and post refractive ectasia have undergone a revolution over the last decade, both in diagnostics and therapeutics. The symposium will address both changes and advances in imaging, and both surgical and non-surgical treatments, with specific emphasis on corneal collagen crosslinking and when to intervene in the pediatric keratoconic patient.

11:00 - 12:30  Venue: Ballroom
Chair(s): Michael BELIN, Bennie JENG, Woranart TATTIYAKUL

11:00 Keratoconus is a Non-Inflammatory Thinning Disorder: Maybe Not
Rohit SHETTY

11:10 New Ways to Characterize Ectatic Disease: Out with the Old
Michael BELIN

11:20 Questions and Answers

11:25 Non-Surgical Management of Keratoconus
Bennie JENG

11:35 Pediatric Keratoconus: CXL at Time of Diagnosis is the Best Option
Pooja KHAMAR

11:45 Pediatric Keratoconus: Watchful Waiting is in the Patient’s Best Interest
Juan ABAD

11:55 Questions and Answers

12:00 Diagnosis and Management of Post-Refractive Ectasia
Vishal JHANJI

12:10 Beyond DALK: Evolving Surgical Techniques for Ectatic Disease
Shahzad MIAN

12:20 Questions and Answers

Glaucoma

Angle Closure
This symposium provides a comprehensive yet practical guide to the management of primary angle closure glaucoma (PACG), presented by experienced clinicians with world-recognized expertise from around the globe. Recent research in PACG will also be featured.

09:00 - 10:30  Venue: Plenary Hall 1
Chair(s): Tin AUNG, Seng Kheong FANG, Boonsong WANICHWECHARUNGRUANG

09:00 Laser PI for Narrow Angles: The ZAAP Trial
Mingguang HE

09:10 Surgical Options for Chronic PACG
Naris KITNARONG

09:20 RCT of Phaco-GSL vs Phaco for PACG
Rahat HUSAIN

09:30 RCT of Location for Laser Iridotomy to Reduce Visual Disturbance
Rengaraj VENKATESH

09:40 Automated Angle Classification Based on Volumetric Parameters of Anterior Chamber: An SS-OCT Study
Wenbin HUANG

09:50 Subtypes of ACG: The Evidence
Joon Mo KIM

10:00 Zonule Weakness in ACG
Hiroshi SAKAI
10:10 Blindness Following Acute Primary Angle Closure In North China  
Shuning LI

10:20 TBC  
Syril DORAIRAJ

New Frontiers in Glaucoma: From Bench to Bedside
This symposium addresses various new aspects in the etiology of glaucomatous optic neuropathy, including a potential role of angiopoietin-1 for the development of Schlemm’s canal, a potential role of microglial cells, new forms of glaucoma drug delivery, new aspects in the pathogenesis of glaucomatous optic disc hemorrhages and in the biomechanics of the optic nerve head, and new developments in medical glaucoma therapy.

11:00 - 12:30 Venue: Plenary Hall 1  
Chair(s): Jost JONAS, Claire MITCHELL, Ngamkae RUANGVARAVATE

11:00 Angiopoietin-1 is Required for Schlemm’s Canal Development in Mice and Humans  
Janey WIGGS

11:10 Linking Elevated IOP to Inflammatory Signals  
Claire MITCHELL

11:20 The Origins of Repopulated Microglia in the Brain and the Retina  
Bo PENG

11:30 Drug Delivery Systems for Glaucoma Management  
Tina WONG

11:40 The Role of Sleep Apnea and Sleep Position in Glaucoma Progression  
Robert RITCH

11:50 New Frontiers in the Biomechanics of the Optic Nerve Head  
Michael GIRARD

12:00 Management Approaches to Syphilitic Uveitis  
Sutasinee BOONSOPON

12:10 Diagnosis and Treatment of Atypical Toxoplasmic Retinochoroiditis  
Wantanee SITTIVARAKUL

12:20 Panel Discussion

Miscellaneous

APAO Leadership Development Program 2019-20 Orientation Class 1  
Open to APAO LDP Class 2019-20 Participants only.

09:00 - 10:30 Venue: Auditorium  
Chair(s): Catherine GREEN, Shaheeda MOHAMED

09:00 Opening Remarks  
Catherine GREEN

09:05 Welcome by APAO President-Elect  
Ningli WANG

09:15 Welcome by APAO Secretary-General  
Clement THAM

09:25 Introduction of the APAO Leadership Development Program: Faculty, Structure, Learning Objectives, and Requirements  
Catherine GREEN

09:45 Participant Introductions and Introduction to Leadership; Group Activity  
Marcus ANG, Madhuwanthi DISSANAYAKE, Shaheeda MOHAMED, Muhammad MOIN, Sherman VALERO
Neuro-Ophthalmology

Anomalous Optic Discs: Not Just Something to be Admired!
In general ophthalmology or neuro-ophthalmology clinics, it is not uncommon to encounter patients with anomalous optic discs, with or without visual loss. In this symposium, the diagnosis and management of various forms of anomalous optic discs (including disc elevations/excavations, hypoplastic and tilted discs) will be discussed.

09:00 - 10:30  Venue: Meeting Room 3
Chair(s): Hyosook AHN, Neil MILLER, Juthamat WITTHAYAWEERASAK

09:00 Anomalous Disc Elevation 1: Superficial and Deep Drusen
Anthony ARNOLD

09:15 Anomalous Disc Elevation 2: Without Drusen
Prem SUBRAMANIAN

09:30 Anomalous Disc Excavation 1: The Morning Glory Syndrome
Karl GOLNIK

09:45 Anomalous Disc Excavation 2: Colobomas, Pits, and the Papillorenal Syndrome
Neil MILLER

10:00 Hypoplastic Discs
Mahesh KUMAR

10:15 Tilted Discs
Hyosook AHN

Ocular Oncology & Pathology

Uveal Melanoma

11:00 - 12:30  Venue: Lotus Room
Chair(s): Tero KIVELA, Bin LI, Jianhong LIANG

11:00 The Case of Ciliary Body Occupied Lesion Manifested as Anterior Chamber Tumor
Bin LI

11:15 Uveal Melanoma in Singapore: Diagnosis, Management and Molecular Testing
Anita CHAN

11:30 Usefulness of SS-OCT in Differential Diagnosis of Small Uveal Melanoma
Bozena ROMANOWSKA-DIXON

11:45 Surgical Resection of Uveal Tumors
Jianhong LIANG
12:00  BAP1 Tumor Disposition Syndrome  
Tero KIVELA

12:15  Ophthalmic Manifestations of Acute Leukaemia  
Nadeem BUTT

Orbital and Oculoplastic Surgery

2019 APAO Oculoplastic Video Cram Course
This symposium will showcase step-by-step videos from common, challenging to complicated surgical scenarios by oculoplastic experts from around the world. Participants with different surgical experience and interest may find this symposium an intense refresher course.

09:00 - 10:30  Venue: Lotus Room  
Chair(s): Kelvin Kam-Lung CHONG, Raveewan CHOONTANOM, Timothy SULLIVAN

09:00  Non-Incisional, Small Incisional to Standard Approach Double-Eyelid Operations  
Jae Woo JANG

09:05  Surgical Rejuvenation of the Lower Eyelid and Midface  
Jeremiah TAO

09:10  Aesthetic Management of the Canthi  
Juan YE

09:15  Expanding Armamentarium for Brow Elevation  
Julian PERRY

09:20  Graded, Upper and Lower Lid Recession in Thyroid Associated Orbitopathy  
Huifang ZHOU

09:25  5 Flaps for Periocular Reconstruction  
Timothy SULLIVAN

09:30  Optic Canal Decompression — Different Indications and Different Strategies  
Wencan WU

09:35  Optic Nerve Sheath Fenestration  
Catherine HWANG

09:40  Palpebral to Extracranial Reconstruction in Orbitotemporal Neurofibromatosis  
Renbing JIA

09:45  Orbital Advancement in Craniosynostosis  
Kasturi BHATTACHARJEE

09:50  Exenteration — From Operative Variations to Rehabilitation  
Santosh HONAVAR

09:55  Managing Orbital Vascular Malformation  
Honglei LIU

10:00  Personalising Orbital Decompression  
Regine Yien-Ching CHAN

10:05  Staged Vs Combining Surgeries for Paralytic Lagophthalmos  
Pimkwan JARU-AMPORNPHAN

10:10  Small Incision, Anterior and Posterior Levator Surgeries for Ptosis Correction  
Darmayanti SISWOYO

10:15  Questions and Answers

Pediatric Ophthalmology & Strabismus

APSPOS Symposium: Challenging Cases in Pediatric and Strabismus
This session comprises a series of case-based presentations by presenters from around the globe highlighting interesting and difficult problems in the fields of pediatric ophthalmology and strabismus.

09:00 - 10:30  Venue: Meeting Room 2  
Chair(s): Justin MORA, Miho SATO, Sorot WUTTHIPHAN

09:00  NiKo Eye Test: A New Test to Visually Assess Children with Neurodevelopmental Disorders  
Nikolas KOZEIS

09:08  Anti-Elevation Syndrome  
Giovanni MARCON

09:16  A Lady with Intractable Diplopia After Strabismus Surgery  
Chong-Bin TSAI

09:24  Orbital Floor Fracture with Congenital SOP  
Miho SATO

09:32  Q & A

09:40  Which Pediatric Glaucoma Surgery in an Only Eye?  
Justin MORA

09:48  Congenital Idiopathic Enlargement of an Extraocular Muscle  
Takashi NEGISHI

09:56  Sagging Eye Syndrome  
Narisa RATTANALERT

10:04  Strabismus in Orbital Myositis  
Huban ATILLA

10:12  Questions and Answers

Dangerous Diplopia in Children
Double vision can be the result of benign or life-threatening aetiologies. This symptom is of significant concern, especially in the pediatric population. In this symposium, we will discuss the practical approaches to assessing diplopia in children. Important life-threatening and sight-threatening conditions will be discussed.
11:00 - 12:30  Venue: Meeting Room 2  
Chair(s): Lekskul APATSA, Celia CHEN, An-Guor WANG

11:00  How do We Approach Horizontal Diplopia?  
  Jeong-Min HWANG

11:10  How do We Approach Vertical Diplopia?  
  Hui-Chen CHENG

11:20  Differentiating Infantile Onset Strabismus from Cranial Neuropathies  
  Celia CHEN

11:30  Supranuclear and Nuclear Lesions  
  An-Guor WANG

11:40  Cavernous Sinus Lesions  
  Sharon TOW

11:50  Isolated Cranial Nerve Paresis in Children  
  Neil MILLER

12:00  Orbital Lesion and Myopathies  
  Atchareeya WIWATWONGWANA

12:10  Childhood Myasthenia  
  Rashmin GANDHI

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**Prevention of Blindness**

Prevention of Blindness at the Policy Level

11:00 - 12:30  Venue: Boardroom 4  
Chair(s): Prut HANUTSAHA, Ivo KOCUR

11:00  WHO and Cooperation Among Member Countries  
  Ivo KOCUR

11:12  National Myopia Control Plan in China  
  Ningli WANG

11:24  Universal Coverage Scheme and National Drug List, Thailand Experience  
  Prut HANUTSAHA

11:36  Inequality in Eye Care  
  Koichi ONO

11:48  Mongolia’s Progress in Eye Care  
  Chimgee CHULUUNKHUU

12:00  Fiji-Setting and Implementing National Priorities for Eye Care  
  Luisa RAUTO

12:12  Nepal Eye Program and the Apex Body for Eye Health  
  Sanduk RUIT

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**Refractive Surgery**

**Tips & Tricks for Successful Refractive Surgeries**

The speakers in this session are world leaders in their topic. They will share with us their vast experience and how they achieve their best results as well as avoid problems.

09:00 - 10:30  Venue: Meeting Room 1  
Chair(s): John So Min CHANG, Choun-Ki JOO, Vilavun PUANGSRICHARERN

10:00  Tips & Tricks for SMILE  
  Sri GANESH

10:12  Tips & Tricks for LASIK  
  Sabong SRIVANNABOON

10:24  Tips & Tricks for Phakic IOL  
  Kimiya SHIMIZU

10:36  Tips & Tricks for Corneal Implants  
  Minoru TOMITA

10:48  Tips & Tricks for Refractive Presbyopic Treatment  
  Klaus DITZEN

10:00  Tips & Tricks for Cross-Linking  
  Ngamjit KASETSUWAN

10:12  Tips & Tricks for Refractive Lens Exchange  
  Samresh SRIVASTAVA

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**SMILE**

11:00 - 12:30  Venue: Meeting Room 1  
Chair(s): Ekket CHANSUE, Sri GANESH, Kishore PRADHAN

11:00  Comparison of Visual Outcomes of Dissection VS No Dissection Technique in SMILE  
  Sri GANESH

11:12  Astigmatic Correction Using SMILE  
  Tommy CHAN

11:24  Gas Bubble Sign — A New Intraoperative Sign to Predict Optical Quality of Vision After SMILE  
  Sheetal BRAR

11:36  SMILE for Hyperopic Treatment  
  Kishore PRADHAN

11:48  SMILE Enhancement  
  Ekket CHANSUE

12:00  Is There Still Room for LASIK/PRK after SMILE?  
  Gaurav LUTHRA
12:12 Management of SMILE Complications
*Jodhbir MEHTA*

12:24 Questions and Answers

Retina (Medical)

The Unmet Need in Retinal Diseases
The effective treatments for retinal diseases are leading to improvement of patient’s vision. However, many of them still have unmet medical needs. The repetition of anti-VEGF injection becomes the global burden of retinal disease. Reducing a number of injections by using either extended drug delivery system or longer action anti-VEGF is attractive. Beyond prevention of disease progression in dry AMD, explicit therapies for dry AMD are discovered. Lastly, treatments for desperate diseases such as CRAO and inherited retinal diseases will be discussed in this session.

09:00 - 10:30 *Venue: Plenary Hall 3*
*Chair(s): R.V. Paul CHAN, Kazuaki KADONOSONO, Somanus THOONGSUWAN*

09:00 CRAO: Retinal Anterioriolar Embolectomy
*Kazuaki KADONOSONO*

09:10 Management of CRAO & CRVO in Neurologist Perspective
*Yongchai NILANONT*

09:20 CRAO & BRAO: From Hyperbaric Physician’s Point of View
*Chamchan CHANCHANG*

09:30 Complement and Dry AMD: Where do We Stand with Therapies?
*Don Il HAM*

09:40 Extended Drug Delivery Systems for Anti-VEGF Agents
*Jennifer KANG-MIELER*

09:50 HAWK and HARRIER 2 Year Results: Potential for Better Disease Control
*Adrian KOH*

10:00 Progress in Treating Inherited Retinal Diseases Using Gene and Stem Cell Therapy
*Elliott SOHN*

Updates on Diabetic Retinopathy
Blindness from diabetic retinopathy continues to be a major public health issue and is often preventable. This symposium will cover updates in the challenges of diagnosis and treatment of diabetic proliferative retinopathy and maculopathy. Disruptive technology using artificial intelligence in diabetic screening is exciting. In the present era of anti-VEGF therapy, new drugs and strategies in managing treatment-resistant maculopathy will be discussed. The treatment options of macular edema in the context of cataract surgery will be considered.

Retina (Surgical)

Management of Anterior Segment Surgery Complications
Complications of anterior segment surgery are frequently co-managed with the vitreoretinal surgical team. This symposium highlights common complications and surgical management options currently available. It would be suitable for all grades of ophthalmologists especially trainees, vitreoretinal surgery fellows, and general ophthalmologists.

09:00 - 10:30 *Venue: Meeting Room 4*
*Chair(s): Kenneth FONG, Rajiv RAMAN, Pakitti TAYANITHI*

09:00 Post Surgical Intraocular Inflammation
*Parthopratim DUTTA MAJUMDER*

09:10 Post Surgical Endophthalmitis
*Hussain KHAQAN*

09:20 Post-Operative Macula Edema
*Pakitti TAYANITHI*

09:30 Tips on Handling Cataract Surgery Complications
*Manoharan SHUNMUGAM*

09:40 Choroidal Haemorrhage and Effusion
*Doric WONG*
09:50  Posterior Capsule Rupture and Dropped Lens
   Ari DJATIKUSUMO

10:00  Aphakia and Dislocated IOLs
   Marie Joan LOY

10:10  Combined Phaco and Vitrectomy: Pros and Cons
   Dipak NAG

10:20  Panel Discussion

Visual Sciences

Refractive Errors and Myopia: From Animal Models to Humans
Treatments to slow myopia progression, or even prevent it, are underway: this session reflects on the translation of findings from animal models and basic research to understanding how myopia develops, and the implementation of these findings into clinical research. We aim to explore the most recent science of why people become myopic, what treatments are new, and why are we using them.

09:00 - 10:30  Venue: C Ground Meeting Room 2
   Chair(s): Chris HAMMOND, Wadakarn WUTHISIRI, Xiangtian ZHOU

09:00  Learning Lessons from Large-Scale Genetic Studies of Myopia
   Chris HAMMOND

09:10  Does Near Work Induce Myopia: From Animal Model to Human
   Xiangtian ZHOU

09:20  Parental Myopic Status Associated with Myopia in Children
   Jason YAM

09:30  Prevention of Myopia
   Audrey CHIA

09:40  Biomarkers of Time Outdoors and Myopia
   David MACKEY

09:50  Environmental Effects on Development of Myopia
   Govindasamy KUMARAMANICKAVEL

10:00  Modulation of Eye Growth by Optical Defocus
   Chi Ho TO

10:10  Questions and Answers

Global Eye Genetics Consortium (GEGC) Symposium

11:00  Novel Genes Identified for Inherited Retinal Diseases in Asian Population
   Takeshi IWATA

11:11  From Genome-Wide Association Studies to Mendelian Randomization: Opportunities for Understanding Ocular Disease Causality
   Ching-Yu CHENG

11:22  Can Ophthalmologist Diagnose a Rare Genetic Syndrome of Werner
   Ahmed REDA

11:33  Leber’s Congenital Amaurosis in China
   Zheng Qin YIN

11:44  Role of GEGC, India Chapter in Promoting Eye Research
   S NATARAJAN

11:55  Successful Treatment of Secondary Choroidal Neovascularization Associated with Best Vitelliform Dystrophy with Anti-VEGF Therapy
   Tharikarn SUJIRAKUL

12:06  TBC
   Amir Hossein MAHMOUDI

12:17  Research as a Tool for Serving Community Eye Health Needs and Building International Collaboration
   Gyan PRAKASH

MAR 07, 2019 (THU)

Academia, Research, Teaching and Education in Ophthalmology

ICO Education Symposium

09:00 - 10:30  Venue: Boardroom 3
   Chair(s): Clare DAVEY, Prut HANUTSAHA, Berthold SEITZ

09:00  Generational Teaching: Improving Understanding of the Millennial Generation
   Tim ROBERTS

09:11  Tools for Faculty Assessment
   Eduardo MAYORGA

09:22  The ICO Face-to-Face Resources for Faculty Development
   Karl GOLNIK
### APAO-ICO Sessions for Educators: Competencies of a Good 21st Century Teacher

Aimed at anyone that teaches, the symposia will cover different topics regarding teaching in medicine. From assessing your learners’ needs to assessing what they have learned, passing through strategies on how to make a better presentation, changing your strategies when teaching small and big groups and covering how to use technology to be a better teacher and reach more learners.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Preparing and Giving Lectures</td>
<td>Ana PALIS</td>
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<tr>
<td>11:10</td>
<td>Small Group Teaching</td>
<td>Catherine GREEN</td>
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<tr>
<td>11:20</td>
<td>Teaching Practical Skills</td>
<td>Prashant GARG</td>
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<td>11:30</td>
<td>Needs Assessment of Learners</td>
<td>Eduardo MAYORGA</td>
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<td>11:40</td>
<td>Assessing Trainees</td>
<td>Charles McGHEE</td>
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<td>11:50</td>
<td>Using Social Media</td>
<td>Helena FILPE</td>
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<tr>
<td>12:00</td>
<td>Technology-Assisted Teaching</td>
<td>Chee-Chew YIP</td>
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<tr>
<td>12:10</td>
<td>Questions and Answers</td>
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### Cataract

**Ophthalmic Premier League**

The Ophthalmic Premier League will cover all there is on cataract surgery and its complications through videos. Various topics will be covered.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Introduction</td>
<td>Amar AGARWAL, John So Min CHANG, Theeratep TANTAYAKOM</td>
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<tr>
<td>09:04</td>
<td>PC Rupture Team: Bag in the Lens Implantation</td>
<td>Marie-Jose TASSIGNON</td>
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<td>09:08</td>
<td>PC Rupture Team: Flap Motility Sign in PC Rupture</td>
<td>Rohit PARKASH</td>
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<td>09:12</td>
<td>PC Rupture Team: IOL Scaffold</td>
<td>Mohan RAJAN</td>
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<td>09:16</td>
<td>PC Rupture Team: Preventing PC Rupture in Soft Cataracts</td>
<td>Ronald YEOH</td>
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<tr>
<td>09:20</td>
<td>Panel Discussion</td>
<td>Robert ANG, Charles McGHEE, Tetsuro OSHIKA</td>
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<tr>
<td>09:24</td>
<td>Glued IOL / Yamane Team: Step by Step Mastering the Glued IOL Technique</td>
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</tbody>
</table>
09:28 Glued IOL / Yamane Team: Mastering the Beiko/Steinert Technique of Preventing Haptic Slippage
George BEIKO

09:32 Glued IOL / Yamane Team: Step by Step Mastering the T Shaped Fixation Technique
Toshihiko OHTA

09:36 Glued IOL / Yamane Team: Step by step Mastering the Yamane Technique
Shin YAMANE

09:40 Panel Discussion
Suber HUANG, Nivean MADHIVANAN, Hungwon TCHAH

09:44 Cornea / Iris Team: Problems and Solutions with Different Pupil Expansion Devices
Richard PACKARD

09:48 Cornea / Iris Team: Single Pass 4 Throw Pupilloplasty
Gaurav LUTHRA

09:52 Cornea / Iris Team: IFIS — Tips and Tricks to Master
Steve ARSHINOFF

09:56 Cornea / Iris Team: Pseudophakic Bullous Keratopathy Managed with PDEK
Lional DANIEL RAJ PONNIAH

10:00 Panel Discussion
Vishal JHANJI, Shigeru KINOSHITA, Namrata SHARMA

10:04 Devices Team: Trocar AC Maintainer
Athiya AGARWAL

10:08 Devices Team: Rings and Segments Used to Manage Subluxated Cataract
Soon-Phaik CHEE

10:12 Devices Team: Multi-Purpose Mask in Complex Cataracts
Burkhard DICK

10:16 Devices Team: Presbyopia IOL
Gerd AUFFARTH

10:20 Panel Discussion
S NATARAJAN, Ritika SACHDEV, Hugh TAYLOR

10:24 Conclusion
Bennie JENG, Ronald KRUEGER

New Technologies for Cataract Surgery
This symposium will update the attendees on the latest in cataract surgery tools and intraocular lens implants. The session includes a debate on the available capsulotomy technologies.

11:00 - 12:30 Venue: Plenary Hall 2
Chair(s): Soon-Phaik CHEE, Burkhard DICK, Thanapong SOMKIJRUNGROJ

11:00 EDOF IOLs on Trial: Latest Clinical Results
Tim SCHULTZ

11:12 New IOL Technology
Gerd AUFFARTH

11:24 Update on Latest Trends in Adjustable IOL Technology
Burkhard DICK

11:36 New Tools
Sumitra KHANDELWAL

11:48 Intraoperative OCT
Thanapong SOMKIJRUNGROJ

12:00 Capsulotomy Debate: Pro-Femto
Soon-Phaik CHEE

12:10 Capsulotomy Debate: Pro-Zepto
David CHANG

12:20 Capsulotomy Debate: Pro-CAPSULaser
Richard PACKARD

Hitting the Refractive Target — Sphere & Cylinder

14:30 - 16:00 Venue: Plenary Hall 2
Chair(s): George BEIKO, Sabong SRIVANNABOON, Marie-Jose TASSIGNON

14:30 Indication for Diffractive-Toric IOLs
Gerd AUFFARTH

14:38 Hitting the Refractive Target After RK
George BEIKO

14:46 Managing Unhappy Patients After Toric IOL Implantation
Patrick VERSACE

14:54 Femtosecond Laser Catracat Surgery in Patients with Astigmatism/(Toric Outcomes with FLACS and Barrett Formula)
Seng Ei TI

15:02 Preventing Toric IOL Misalignment/Alignment and Repositioning
David CHANG

15:10 Role of the Anterior Interface in the Final IOL Position
Marie-Jose TASSIGNON

15:18 Hitting the Refractive Target in Combined Cataract and Keratoplasty Surgery
Jesper HJORTDAL
Cornea, External Eye Diseases & Eye Bank

All Things Inflammatory of the Anterior Segment
This symposium will provide essential aspects in various anterior segment inflammations that pose both diagnostic and clinical challenges. This will include common problems such as meibomian gland dysfunction, dry eye, and allergic conjunctivitis to diseases with potential visual threatening and associated with systemic illness such as Stevens-Johnson syndrome/toxic epidermal necrolysis, ocular cicatricial pemphigoid, peripheral ulcerative keratitis, and scleritis. Attendees will learn about an overview in diagnosis approach, an update on treatment, new surgical technique, as well as the pitfalls in management and interesting cases sharing.

09:00 - 10:30 Venue: Ballroom
Chair(s): Chie SOTOZONO, Napaporn TANANUVAT, Alvin YOUNG

09:00 Meibomian Gland Dysfunction
Shizuka KOH

09:10 Inflammation You Can See and Measure in Dry Eye
Louis TONG

09:20 Allergic Conjunctivitis — Beyond Topical Antihistamines and Steroids
Colin CHAN

09:30 Management of Acute Ocular Complications in Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis
Vilavun PUANGSRICHARERN

09:40 Epithelial Transplantation for Ocular Cicatricial Pemphigoid
Chie SOTOZONO

09:50 Update on the Management of Peripheral Ulcerative Keratitis
Alvin YOUNG

10:00 Pitfalls in the Management of Scleritis
Napaporn TANANUVAT

10:10 The Unexplained Red Eye
Srinivas RAO

10:20 Questions and Answers

Indications, Techniques & Management of Keratoprosthesis
Keratoprosthesis advances over the last decade have taken a rarely performed procedure and moved it into the mainstream of Ophthalmology. While certain types of KPRO, such as OOKP, are only performed at a few major centers, others, such as the Boston KPRO, are much more commonly performed and within the scope of many corneal surgeons. This session will review the current status of all major available KPROs.
15:06  DSEK in Eyes with ACIOLs: Outcomes Analysis to Guide ACIOL Management  
**Anthony ALDAVE**

15:18  Development of a Donor Tissue Holding Technique for DMEK Using a 25-Gauge Graft Manipulator  
**Akira KOBAYASHI**

15:30  Pull-through Endo-In DMEK Using a New DMEK Inserter — E-DMEK  
**Donald TAN**

15:42  Reverse Translational Research in Corneal Endothelial Dysfunction  
**Shigeru KINOSHITA**

**Eye Banking in 2019: Advances and Challenges**
This symposium brings together global experts in the field to address key international challenges of particular relevance to the Asia-Pacific region. Contemporary advances and challenges to be discussed include regional and international trends in eye banking; changing perspectives on microbial contamination; a reappraisal of donors with systemic infection; Eye Bank preparation of tissue for lamellar surgery; and future opportunities for provision of the corneal endothelium.

16:30 - 18:00  **Venue: Ballroom**  
Chair(s): **Charles McGHEE, Chia-Li PANG, Lalida PARIYAKANOK**

16:30  Development of the Singapore Eye Bank in the Evolving Healthcare Landscape?  
**Chia-Li PANG**

16:40  USA: Microbial Contamination in Eye Banking  
**Elmer TU**

16:50  Current Trends in Eye Banking in India  
**Namrata SHARMA**

17:00  Aspects of Corneal Transplantation and Eye Banking in Thailand  
**Lalida PARIYAKANOK**

17:10  Reappraisal of the Suitability of Corneas from Bacteremic Donors for Use in Corneal Transplants  
**Fung-Rong HU**

17:20  Eye Banking in Hong Kong — Recent Developments  
**Victoria WONG**

17:30  Eye Bank Preparation of Pre-Cut DSAEK/DMEK Tissue and Risks of Microbial Contamination  
**Pierre GEORGES**

17:40  The Failing Endothelium: Future Alternatives to Endothelial Keratoplasty?  
**Jie ZHANG**

17:50  Panel Discussion

**Glaucoma**

**WGA Symposium: Hot Topic in Glaucoma**
This World Glaucoma Association symposium will focus on the current and emerging trends in glaucoma diagnosis and treatment. In topics that include basic science advances, structure and function of the optic nerve, new and enhanced diagnostics tests and surgical procedures, speakers will demonstrate how we can translate novel scientific advances into improved patient care today.

09:00 - 10:30  **Venue: Plenary Hall 1**  
Chair(s): **Neeru GUPTA, Jeffrey LIEBMANN, Chaiwat TEEKHASANEE**

09:00  The Genetic Underpinnings of Glaucoma  
**Tin AUNG**

09:10  Is Glaucoma a Brain Disease?  
**Xiulan ZHANG**

09:20  Macular Damage in Glaucoma  
**Ki Ho PARK**

09:30  Reducing Reliance on Perimetry  
**Jeffrey LIEBMANN**

09:40  Use of Anti-VEGF Agents in Glaucoma Surgery  
**Tomasz ZARNOWSKI**

09:50  Advances in Childhood Glaucoma  
**Xinghuai SUN**

10:00  Are MIGS Useful in Patients with Advanced Glaucoma?  
**Keith BARTON**

10:10  Tubes vs Trabeculectomy: Which is the Better Initial Incisional Surgery?  
**Paul CHEW**

10:20  Lymphatic Drainage from the Eye: A New Target for Therapy  
**Neeru GUPTA**

**Interdisciplinary Discussion: Glaucoma and Myopia**
High myopia is an important risk factor for glaucomatous optic neuropathy, which, due to morphological particularities of highly myopic eyes, can be difficult to be detected and is easily overlooked. The symposium will address potential causes for the association between high myopia and glaucoma, pitfalls in the diagnosis of glaucoma in myopia, aspects of the glaucoma therapy including the target intraocular pressure, corneal refractive surgery in myopic eyes with glaucoma, and a potential association between axial length and intraocular pressure.

11:00 - 12:30  **Venue: Plenary Hall 1**  
Chair(s): **Jost JONAS, Xiulan ZHANG**
11:00 Introduction
Xiulan ZHANG

11:01 What is the Possible Pathogenesis of Glaucoma Combined with Myopia? Is there a Relationship Between Myopic Peripapillary Choroidal Atrophy and Glaucomatous Peripapillary Atrophy?
Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU

11:06 Panel Discussion

11:19 What are the Challenges to Make Diagnosis on Glaucoma Among Highly Myopic Eyes?
Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU

11:37 What Level of IOP do You Do Trabeculectomy (Trab) in Myopic Glaucoma with VF Progression? Or Never Do Trab in Myopic Eyes?
Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU

11:55 What are the Pearls and Pitfalls of Laser Vision Correction in Patients with Glaucoma?

12:00 Panel Discussion

12:13 Is Axial Length Enlargement in Myopic Eyes Related to Intraocular Pressure Change? Is It Necessary to Lower the IOP of Children with Increased Ocular Diopter and Axial Length?
Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU

12:18 Panel Discussion

MIGS for Glaucoma
Minimally invasive glaucoma surgery (MIGS) is a new genre of glaucoma surgical devices and procedures that are safer and less invasive than conventional glaucoma surgery. This session will provide an overview of the various types of MIGS devices, highlighting the important considerations in patient selection and surgical techniques. Current data on the efficacy of MIGS will also be discussed.

14:30 - 16:00 Venue: Plenary Hall 1
Chair(s): Somkiat ASAWAPHUREEKORN, Keith BARTON, Chelvin SNG

14:30 MIGS: An Overview
Paul HEALEY

14:40 ABIIC vs GATT
Ningli WANG

14:50 Hydrus
Shamira PERERA

15:00 Innfocus Microshunt
Chelvin SNG

15:10 iStents
Nathan KERR

15:20 Xen
Jui-Ling LIU

15:30 Can Trab be Replaced by MIGS in Underdeveloped Countries?
Syed Imtiaz ALI

15:40 Patient Selection for MIGS: Where It Makes Sense and Where Not?
Anton HOMMER

15:50 Questions and Answers

Secondary Glaucoma and Others
Management of secondary glaucoma is more challenging than that of primary glaucomas because of the diverse underlying causes which usually run a progressive downhill course. Both glaucoma and the underlying eye pathologies are sight-threatening per se. Besides lowering the intraocular pressure, the underlying ocular and systemic diseases also require treatment. Therefore, treatment of secondary glaucomas has to be individualized. In this session, glaucoma experts will discuss the update management of some common secondary glaucomas.

16:30 - 18:00 Venue: Plenary Hall 1
Chair(s): Ying HAN, Jimmy LAI, Kessara PATHANAPITOON

16:30 Secondary Glaucoma with Keratoplasty
Kazuhiro MORI

16:40 The Management of NVG
Jimmy LAI

16:50 What We Can Do for the ICE?
Xiulan ZHANG
17:00  Exfoliation Syndrome: A Potentially Preventable or Reversible Disease  
Robert RITCH

17:10  Glaucoma Associated with Sturge-Weber Syndrome  
Atsuya MIKI

17:20  Secondary Glaucoma with Uveitis  
Ying HAN

17:30  Real World Study of PSS  
Chun ZHANG

17:40  Updates on Management of Secondary Glaucoma Related to Silicone Oil  
Dexter LEUNG

17:50  Micropulse CPC to Treat Refractive Glaucoma  
Makoto AIHARA

Intraocular Inflammation, Uveitis & Scleritis

Current Imaging and Investigation Modalities in the Management of Uveitis  
In this session, speakers from the around the Asia-Pacific region will highlight the importance of various imaging and investigation modalities in the management of uveitis. In particular, recent developments in optical coherence tomography imaging, fundus autofluorescence, choroidal imaging, multimodal imaging, and molecular techniques will be discussed.

09:00 - 10:30  Venue: Meeting Room 4  
Chair(s): Youxin CHEN, Timothy LAI, Thanapong SOMKIURNGROJ

09:00  Systemic Imaging Investigations for Uveitis  
Thanapong SOMKIURNGROJ

09:11  Fundus Autofluorescence in Posterior Uveitis  
Hyeong Gon YU

09:22  New Findings on Uveitis Using Multimodal Imaging  
Liu YANG

09:33  Enhanced Depth Imaging OCT of the Choroid in Uveitis  
Rupesh AGRAWAL

09:44  Multimodal Imaging of White Dot Syndromes: From Technology to Pathology  
Xuan SHI

09:55  OCT Angiography for the Management of Uveitis  
Danny NG

10:06  Molecular Techniques in the Diagnosis of Uveitis  
De-Kuang HWANG

10:17  Questions and Answers

Challenges in Chronic Ocular Surface Inflammation

16:30 - 18:00  Venue: Meeting Room 4  
Chair(s): Peter McClUSKEY, Uwe PLEYER, Sukhum SILPA-ARCHA

16:30  Steven-Johnson Syndrome: An Unsolved Issue...  
Kalpana MURTHY

16:45  Differential Diagnosis: Cicatrising Conjunctivitis and Ocular Pemphigoid: How Do We Sort This Out?  
Peter McClUSKEY

17:00  Corneal Involvement in AKC and VKC When “Allergy” Threatens Vision  
Stephanie WATSON

17:15  Sclera on Fire – 10 Points You Have to Care for...  
Uwe PLEYER

17:30  Medical Treatment of Immune Mediated Ocular Surface Disorders: From Topical to Systemic  
Harvey UY

17:45  Panel Discussion

Neuro-Ophthalmology

What’s New in Clinical Neuro-Ophthalmology?  
Advances in basic and clinical research have led to a number of new treatments for the neuro-ophthalmic disease. Minimally invasive procedures, gene therapy strategies, and interventions to prevent ganglion cell death in the setting of ischemia are among the treatments being studied or now put to use for patients with previously intractable conditions. Technological advances are revealing new details of optic nerve structure and function that will help to formulate the treatments of the future as well.

09:00 - 10:30  Venue: Meeting Room 3  
Chair(s): K KITTHAWEESIN, Prem SUBRAMANIAN, Yong ZHONG

09:00  Evolving Concept of NMO VS MOG VS “Routine” Optic Neuritis  
Dean CESTARI

09:15  Current Status of Venous Sinus Stenting for Idiopathic Intracranial Hypertension  
Prem SUBRAMANIAN
09:30 The Genetics of Optic Nerve Tumors — Therapeutic Implications
Dan MILEA

09:45 Current Status of Leber Hereditary Optic Neuropathy Treatment Trials
Wanicha CHUENKONGKAEW

10:00 Current Status of Non-Arteritic Anterior Ischemic Optic Neuropathy Treatment Trials
Yong ZHONG

10:15 OCT Angiography and Neuro-Ophthalmologic Disorders
Parima HIRUNWIWATKUL

Neuroimaging for the General Ophthalmologists: A Case-Based Workshop
Advances in neuroimaging technology over the past decade have dramatically improved our diagnostic capabilities and in the process have changed the paradigms for imaging in common neuro-ophthalmic conditions. This symposium highlights current imaging techniques and indications for their use, with illustrative case examples to demonstrate their value in clinical practice.

11:00 - 12:30 Venue: Meeting Room 3
Chair(s): Supanut APINYAWASISUK, Anthony ARNOLD, Jeong-Min HWANG

11:00 Proptosis and Eyelid Swelling
Jeong-Min HWANG

11:15 Pupil Involving CN3 Palsy
Anuchit POONYATHALANG

11:30 Papilledema
Anthony ARNOLD

11:45 Cranial Neuropathies
An-Guor WANG

12:00 Stroke
Celia CHEN

12:15 Optic Neuritis
Lynn GORDON

APAO–ASNOS Symposium: Neuro-Ophthalmology in Asia

16:30 - 18:00 Venue: Meeting Room 3
Chair(s): Linda HANSAPINYO, Satoshi KASHII, An-Guor WANG

16:30 Ethambutol Toxic Neuropathy — Our Experience (Indonesia)
Syntia NUSANTI

Rashmin GANDHI

16:52 Targeted Immunotherapy in Neuromyelitis Optica Spectrum Disorder: Recent Advances
Shihui WEI

17:03 “Our Optic Neuritis” — A Different Way to View Asian Optic Neuritis
Buenjim MARIANO

17:14 Investigation of Optic Neuritis
Clement TAN

17:25 Is There an Association Between Sleep Apnea and Ischemic Optic Neuropathy?
Ming-Hui SUN

17:36 Effect of Erythropoietin in the Treatment of Non-Arteritic Anterior Ischemic Optic Neuropathy
Hyun Taek LIM

17:47 Challenging Cases in Neuro-Ophthalmology
Niphon CHIRAPAPAISAN

Ocular Imaging

What’s New in Retinal Imaging?
Ocular imaging is a fast advancing field. In this session, experts in ocular imaging will summarize the latest developments in retinal imaging, including hardware, image processing methods as well as the impact of artificial intelligence on clinical practice. The application of imaging in specific disease areas common in Asia, such as pachychoroid diseases and myopia will also be discussed.

14:30 - 16:00 Venue: Meeting Room 3
Chair(s): Gemmy CHEUNG, Janejit CHOOVUTHAYAKORN, Srinivas SADDA

14:30 An Overview of What’s New in Retinal Imaging
Srinivas SADDA

14:42 Peripapillary Pachychoroid Syndrome
Nopasak PHASUKKIJWATANA

14:54 New Retinal Image Processing Methods
Xinjian CHEN

15:06 How is AI Going to Change the Retinal Specialist’s Practice
Adnan TUFAIL

15:18 Advances in Imaging in High Myopia
Yasushi IKUNO

15:30 A Practical Solution of Home Screening with Portable Retinal Self-Imaging Devices and Cloud Technology
Ho Wa LAI

15:42 Multimodal Imaging for Choroidal Diseases
Roberto GALLEGO-PINAZO
Inaugural APOIS Symposium: Ocular Imaging in 2020 and in 20-Year Time

Asia-Pacific Ocular Imaging Society (APOIS) is newly organized and a new Associate Member Society of APAO. We aim to provide a platform in the Asia-Pacific region for ophthalmologists and visual scientists from around the world to meet, exchange and advance knowledge in ocular imaging. In this inaugural ceremony and symposium, our world-renowned speakers with expertise in ocular imaging will share the current update and the future of ocular imaging.

16:30 - 18:30 Venue: Plenary Hall 2
Chair(s): Carol CHEUNG, Ki Ho PARK, Tien-Yin WONG

16:30 Welcome Message and Speech by President of APOIS Tien-Yin WONG

16:35 How will Ocular Imaging Evolve in the Next 20 Years? Srinivas SADDA

16:55 Ceremony

17:00 Wide Field Imaging: Now & Future Ki Ho PARK

17:07 OCT-Angiography: Now & Future Pearse KEANE

17:14 Swept-Source OCT: Now & Future Gemmy CHEUNG

17:21 Choroidal Imaging: Now & Future Jay CHHABLANI

17:28 Anterior Segment OCT: Now & Future Christopher LEUNG

17:35 Corneal Imaging: Now & Future Jin YUAN

17:42 Multi-Functional OCT: Now & Future Yoshiaki YASUNO

17:49 Major OCT Lessons from DRCR.Net Neil BRESSLER

17:56 AI in Ocular Imaging: Now & Future Mingguang HE

18:03 Panel Discussion

Ocular Oncology & Pathology

APSOOP Symposium: Retinoblastoma

This symposium sponsored by the Asia Pacific Society of Ophthalmic Oncology & Pathology (APSOOP) brings together Ophthalmic Oncology experts from the Asia-Pacific region and shall provide an update of the regional/global prevalence and presentation patterns of retinoblastoma, provide a brief review of current practical and international classification, highlighting the role of imaging and pathological considerations. Apart from addressing broad principles of management, challenging aspects of management including late presentation and orbital recurrences and their management shall be covered. Finally, newer pathogenetic observations and therapeutic modalities of intraarterial chemotherapy and intraocular therapy will be compared and contrasted with traditional systemic chemoreduction will be presented.

14:30 - 16:00 Venue: Lotus Room
Chair(s): Ido Didi FABIAN, Rita S SITORUS, Gangadhara SUNDAR

14:30 Global Retinoblastoma Presentation 2017 Ido Didi FABIAN

14:41 Current Classification of Retinoblastoma Boon Long QUAH

14:52 Intravenous vs Intraarterial Chemotherapy for Retinoblastoma Fairooz Puthiyapurayil MANJANDAVIDA

15:03 Management of Vitreous Seeds and Anterior Chamber Seeds in Retinoblastoma Santosh HONAVAR

15:14 The Pathogenesis and New Therapeutic Techniques of Retinoblastoma Xianqun FAN

15:25 MRI Imaging and Pathological Correlation in Retinoblastoma Phanthipha WONGWAI

15:36 Orbital Recurrence After Enucleation in Retinoblastoma Rita S SITORUS

15:47 To Exenterate or Not to Exenterate — Some Interesting Cases Gangadhara SUNDAR

Orbit, Eyelid

16:30 - 18:00 Venue: Lotus Room
Chair(s): Minas CORONEO, Hiroshi GOTO, Santosh HONAVAR

16:30 Ocular Surface Malignancies Minas CORONEO

16:42 From Bench to Bed — An Update on Research of Eyelid Sebaceous Carcinoma in China Renbing JIA

16:54 New Concepts of Ocular Surface Squamous Neoplasia in Indonesia Hendrian SOEBAGIO

17:06 Sebaceous Gland Carcinoma of the Eyelid Hiroshi GOTO
**17:18**  Application of Conjoint Fascial Sheath (CFS) Suspension in Severe Blepharoptosis in Children
*Rui TIAN*

**17:30**  Flow Cytometry in the Diagnosis of Lymphoma and Lymphoproliferative Disorders
*Satoru KASE*

**17:42**  What am I Doing for Orbital Tumors This Year?
*Santosh HONAVAR*

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**Ophthalmic Epidemiology, Telemedicine, Big Data & AI**

**Big Data and Big Study**

**09:00 - 10:30**  Venue: Boardroom 4
*Chair(s): Somkiat ASAWAREEKORN, Ching-Yu CHENG, Yuanbo LIANG*

**09:00**  Data Sharing and Blockchain
*Robert CHANG*

**09:10**  UK Biobank Cohort: How does the Big Data Contribute to Ophthalmology
*Chris HAMMOND*

**09:20**  nCRC Tools: Free, Do-It-Yourself Online Tools for Conducting and Managing Research and Epidemiological Project
*Bandit THINKHAMROP*

**09:30**  Asian Eye Epidemiology Consortium: What did We Learn in the Past One Year
*Ching-Yu CHENG*

**09:40**  45 and Up Study: From Data to Prediction
*Mingguang HE*

**09:50**  EHR and Big Data in Ophthalmology
*Michael CHIANG*

**10:00**  Mobile Apps as a New Way to Collect Big Data
*Mohamed DIRANI*

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**Orbital and Oculoplastic Surgery**

**Oculoplastic Conditions and Techniques You Don’t Want to Miss**

This session will cover oculoplastic conditions like bleeding orbit, sebaceous cell carcinoma, numbness in CN V1, amyloidosis, orbital inflammation and caruncular masses. If these conditions are missed or misdiagnosed, it can result in significant morbidity or even mortality. We will also cover interesting surgical techniques including customized orbital decompression and orbital filler that conference delegates should not miss as well.

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**Recent Advances in Orbital and Oculoplastics**

Learn about the latest diagnostic modalities, treatment options, and surgical management from world-renowned experts in orbital, lacrimal, oculoplastic surgery and oncology. The symposium will end with the Holmes Award Lecture (the highest award for exceptional contributions in preventive Ophthalmology, especially in the prevention of blindness in the Asia-Pacific region), presented by our honorary speaker from Indonesia, Dr. Nila Moeloek, about orbital tumor and what we know so far.

**11:00 - 12:30**  Venue: Lotus Room
*Chair(s): Peter DOLMAN, Ashok GROVER, Pimkwan JARU-AMPORNAPAN*

**11:00**  Recent Advances in Biologic Therapy for Eyelid and Orbital Malignancies
*Vivian YIN*

**11:10**  Recent Advances in Multimodal Therapy for Lacrimal Malignancies
*Santosh HONAVAR*

**11:20**  Transnasal Endoscopic Orbital Cavernous Malformation Excisions
*Rong LU*

**11:30**  Recent Advances in Corneal Neurotization Surgery: A Canadian Experience
*Ezekiel WEIS*
11:40 Recent Advances in Eyelid Surgery
*Rohit SAIJU*

11:50 Sphenoid Wing Meningioma Resection through a Transorbital Approach
*Kyung In WOO*

12:00 Recent Advances in Lacrimal Imaging: The MR-DCG
*Saul RAJAK*

12:10 Holmes Award Lecture: Tumor of the Eye in Indonesia
*Nila MOELOEK*

### Pediatric Ophthalmology & Strabismus

**APMS Symposium: Prevention of Myopia Progression**

**Venue:** Meeting Room 2  
*Chair(s):* Frank MARTIN, Pornchai SIMAROJ, Pei-Chang WU

09:00 - 10:30

09:00 Epidemiology & Socioeconomic Implication of Myopia
*Seang Mei SAW*

09:10 Behavioral Changes that Help Prevention of Myopia
*Kathryn ROSE*

09:20 OK Lenses in Preventing Myopia Progression
*Xiao YANG*

09:30 The Role of High and Low Dose of Atropine in Preventing Myopia Progression
*Pei-Chang WU*

09:40 Applications of Optical Defocus in Clinical Myopia Control
*Chi Ho TO*

09:50 Posterior Scleral Reinforcement to Prevent Progression of High Myopia
*Yue QI*

10:00 Nakajima Award Lecture: Combating Myopia — From Epidemiology to Clinical Interventions
*Jason YAM*

**SOE Symposium: Where West Meets East**

The SOE symposia titled “Where East Meets West” and “Where West meets East” will be given by prominent members of the International Pediatric Ophthalmology and Strabismus community. Each speaker will be representing their country/region and will discuss common and/or unique problems, current status, updates, initiatives related to their topics. The audience will be able to learn more about a variety of pediatric ophthalmology problems and topics through the talks given by the listed eminent experts.

**Venue:** Meeting Room 2  
*Chair(s):* Daniela CIOPLEAN, Jan Tjeerd DE FABER, Sirinya SUWANNARAJ

16:30 - 18:00

16:30 Management of Congenital Ptosis with Poor Levator Function
*Wadakarn WUTHISIRI*

16:38 Don’ts (and Do’s) in Orthoptic Management: a 21st-Century Update
*Isabel REICH-D’ALMEIDA*

16:46 Multifocal or Bifocal Glasses in Esotropic Children with High Accommodative AC/A Ratio?
*Daniela CIOPLEAN*

16:54 Results of Esotropia Surgery in Children Operated with Mathematical Computer Program “Strabo”
*Igor AZNAURYAN*
17:02 Myopic Esotropia — One Size Fits All? Joanne HANCOX
17:10 Large Inferior Rectus Recession Without Lower Lid Retraction Birsen GOKYIGIT
17:18 Amazing Cases from a Collection of 20,000 Videotapes Alain SPIELMANN
17:26 Surgical Treatment of Complete CN 3rd Palsy and Their Long-Term Results Birsen GOKYIGIT
17:34 Panel Discussion

Prevention of Blindness

Expanding Human Resources to Prevent Blindness
WHO’s Universal Eye Health: A Global Action Plan 2014-2019, sets a global road map for the development of eye care services through a cadre of workers. From the global perspective, there is a need for a common understanding of the eye care team’s role, trends and challenges to set an action plan for workforce recruitment, retention, training and assessment. A global education and training model will be presented with case studies from APAO members who are implementing successful education programs to expand human resources and maximize the ophthalmologists’ productivity with a highly trained and skilled eye care team.

14:30 - 16:00 Venue: Boardroom 3
Chair(s): William ASTLE, Prashant GARG, Tharikarn SUJIRAKUL

14:30 WHO’s Workforce: Strategic Plan and the Definition of Allied Ophthalmic Personnel (AOP) Ivo KOCUR
14:42 Workforce Resources: Current and Future Trends Facing Us William ASTLE
14:54 A Global Model for Training and Assessing Your Eye Care Team Prashant GARG
15:06 Case Studies and Demonstration of a Training and Assessment Model: China Helen YAN
15:18 Case Studies and Demonstration of a Training and Assessment Model: SNEC Jayabaskar THIYAGARAJAN
15:30 Case Studies and Demonstration of a Training and Assessment Model: Pacific Eye Institute Pawan BARAL
15:42 Establishing Standards, Curriculum, and Capacity Building for Human Resources Karl GOLNIK

Prevention of Blindness in the Asia-Pacific Region
16:30 - 18:00 Venue: Boardroom 4
Chair(s): Ava HOSSAIN, Anukul THAITANUNDR, Ningli WANG

16:30 Eye Care Service Delivery in Southeast Asia Taraprasad DAS
16:40 Responding to the Blindness and Vision Impairment Needs of the Rohingya Refugees and the Affected Host Population Jerry VINCENT
16:50 Extension of Healthy Life Expectancy through the Measures Against Visual Impairment Yoshimune HIRATSUKA
17:00 Achievement of Global Action Plan Initiative for Prevention of Blindness in Asia-Pacific Region Hugh TAYLOR
17:10 Reaching the Underserved and Underprivileged Population through Community Mobilization for Eye Care in Bangladesh Ava HOSSAIN
17:20 Human Resource Development to Screen and Manage DR at All Levels of Healthcare Delivery Nathan CONGDON
17:30 Establishing Guidelines for Screening and Treating ROP to Reduce Childhood Blindness in Developing Countries of Asia-Pacific Region Raj vardhan AZAD
17:40 Panel Discussion

Refractive Surgery

APMS Symposium: SMILE
09:00 - 10:30 Venue: Meeting Room 1
Chair(s): Jodhbir MEHTA, Pornlada SUNLAKAVISET, Xingtao ZHOU

09:00 History & Results; Indications and Contraindications of SMILE Rupal SHAH
09:12 Intraoperative Patient Experience and Postoperative Visual Quality After SMILE and LASIK in a Randomized, Paired-Eye, Controlled Study Jodhbir MEHTA
09:24 Techniques, Tips and Pearls, Preventing and Managing Complications of SMILE
   Xingtao ZHOU

09:36 Prevention and Management of Postoperative Complication of SMILE
   Ying LI

09:48 Enhancement Options in SMILE Cases with Suboptimal Refractive Outcomes
   Jakob SIEDLECKI

10:00 Future Developments in SMILE (Hypermetropia; Higher Degree of Myopia; New Machines)
   Yang WANG

10:12 Training and Transition to SMILE for Experienced LASIK Surgeons
   Dennis LAM

Corneal Collagen Cross-Linking
Collagen Crosslinking has become the standard of care for progressive keratoconus. Since its first clinical use more than 15 years ago, the procedure continues to develop further. The indications of collagen crosslinking now include secondary ectasia, infectious keratitis and its prophylactic use in refractive procedures. This session will encompass the latest developments in the field of collagen crosslinking. Evidence-based discussion and case studies will be the highlight of this exciting session.

11:00 - 12:30 Venue: Meeting Room 1
   Chair(s): Vishal JHANJI, Ngamjit KASETSUWAN, Lim LI

11:00 TBC
   Ioannis PALLIKARIS

11:10 Update in Corneal Crosslinking: Where are We Now?
   Ngamjit KASETSUWAN

11:20 Choosing Method of Cross Linking, does Accelerated Cross Linking Work?
   Kavita RAO

11:30 Customised CXL for Keratoconus
   Mahipal SACHDEV

11:40 Rituals for Perfect Crosslinking
   Rohit SHETTY

11:50 Laser Vision Correction Combined with Cross-Linking
   Lim LI

12:00 Complications in CXL
   Vishal JHANJI

12:10 Optimizing Vision after CXL
   Anand PARTHASARATHY

LASIK and Surface Refractive Treatment
It is always recommended that corneal epithelium be removed before PRK treatment. It took more than 20 years to develop the single one-step TransPRK Excimer laser treatment. This was because we did not have accurate information on corneal epithelial thickness and epithelial ablation rate. Therefore, it was difficult to design an algorithm for single step laser ablation for both epithelium and stroma. Results from TransPRK treatment in previously untreated eyes and post-refractive surgery complications treated with Customised TransPRK will be presented.

14:30 - 16:00 Venue: Meeting Room 1
   Chair(s): Dimitri AZAR, Varintorn CHUCKPAIWONG, Jerry TAN

14:30 Wound Healing in Laser Visual Correction
   Dimitri AZAR

14:38 Refine the Techniques for PRK
   Olan SUWAN-APICHON

14:46 Transepithelial PRK
   Jerry TAN

14:54 PRK for High Myopia
   Vishal JHANJI

15:02 Questions and Answers

15:15 Wavefront-Guided LASIK
   Hungwon TCHAH

15:23 Laser Visual Correction for Astigmatism
   Varintorn CHUCKPAIWONG

15:31 LASIK Retreatment After 10 Years: What to Do?
   Jorge ALIÓ DEL BARRIO

15:39 MMC Adjunctive Treatment in Surface Ablation
   Choun-Ki JOO

15:47 Questions and Answers

APAO–ISRS Symposium: Controversies in Refractive Surgery
Refractive surgery is a rapidly evolving field with multiple controversies. We believe the best way to understand the relative merit of the divergent views of each controversy is by presenting the opposing views back to back, and then allowing panelist discussion of these views in an open forum. That is what we will do with each of the 4 controversial topic pairs presented.

16:30 - 18:00 Venue: Meeting Room 1
   Chair(s): John So Min CHANG, Vivat KOMOLSURADEJ, Ronald KRUEGER

16:30 SMILE vs LASIK (SMILE)
   Sri GANESH

16:38 SMILE vs LASIK (LASIK)
   Jerry TAN
Retina (Medical)

Updates on AMD & Variants Including PCV
Given the growing prevalence and potentially blinding effects on vision when left untreated, age-related macular degeneration is a major public health problem worldwide, including the phenotypic appearance of polypoidal choroidal vasculopathy (PCV). This symposium will review current concepts on the classification of its phenotypes across multiple imaging modalities as well as treatment strategies of initiating with monotherapy with anti-VEGF agents versus combining agents with photodynamic therapy. New therapies, masquerade diagnoses, and managing complications of treatment will also be reviewed.

10:00 Acute Exudative Polymorphous Vitelliform Maculopathy Masquerading AMD
   Dolz-Marco ROSA

10:10 Managing Endophthalmitis and Other Complications of Intravitreal Injections
   Maytinee SIRIMAHARAJ

10:20 Questions and Answers

Mystery Retinal Cases
This Mystery Retinal Cases Symposium will feature interesting medical retina cases presented by leaders in medical retina, which will provide a forum for discussion of these cases and presentation of interesting learning points provided by the cases. The discussion often provides illuminating learning points in regard to diagnosis, pathogenesis, and treatment of retinal diseases.

11:00 - 12:30 Venue: Plenary Hall 3
   Chair(s): Gregg KOKAME, Hiroko Terasaki, Adisak TRINAVARAT

11:00 Mystery Retinal Case 1
   William MIELER

11:10 Mystery Retinal Case 2
   Adrian FUNG

11:20 Mystery Retinal Case 3
   Adrian KOH

11:30 Mystery Retinal Case 4
   Lihteh WU

11:40 Mystery Retinal Case 5
   Anna TAN

11:50 Mystery Retinal Case 6
   Voraporn CHAIKITMONGKOL

12:00 Mystery Retinal Case 7
   Michael CHILOV

12:10 Mystery Retinal Case 8
   Gregg KOKAME

12:20 Mystery Retinal Case 9
   Tomohiro IIDA

Retina (Surgical)

Pediatric Retina Surgery Essentials

11:00 - 12:30 Venue: Meeting Room 2
   Chair(s): Atchara AMPHONPHRUET, R.V. Paul CHAN, Wai-Ching LAM

11:00 Painful Lessons Learned from the Pediatric Retina Surgery
   Wei-Chi WU

11:12 FEVR
   Xiaoyan DING
11:24 Management of Aggressive Posterior Vitreoretinopathy (APVR) in Neonates  
R.V. Paul CHAN

11:36 Bilateral Sequential Lens Sparing Vitrectomy for Stage 4 Retinopathy of Prematurity  
Narendran VENKATAPATHY

11:48 Surgical Treatment of Retinal Detachment Associated with Morning Glory Syndrome  
Shunji KUSAKA

12:00 Pediatric Ocular Trauma  
Atchara AMPHONPHRUET

12:12 Management of Juvenile Retinoschisis  
Wai-Ching LAM

**Controversies in Surgical Retina**
While much has been learned about the role of the vitreoretinal interface in the pathogenesis of vitreoretinal diseases and surgery, there remain controversies about the optimal surgical management of sight-threatening disease. Surgeon-scientists will present a compilation of our field's most challenging conditions, including myopic foveoschisis, macular hole, RD with multiple posterior breaks, and the approach to the vitreoretinal interface in pediatric patients with advanced vitreoretinal disease. This symposium showcases advances in retinal surgery and debates the relative advantages and disadvantages of current and evolving management.

11:00 - 12:30  **Venue: Meeting Room 4**
Chair(s): Suber HUANG, Yusuke OSHIMA, Nuttawut RODANANT

11:00 Vitreoretinal Surgical Considerations in High Myopia  
Wen-Hsiang LEE

11:08 Pathogenesis and Current Treatment for Myopic Foveoschisis  
Yasushi IKUNO

11:16 Flap-Closure Internal Limiting Membrane Technique to Rationally Approach Myopic Traction Maculopathy/Myopic Macular Hole/ Macular Hole Retinal Detachment  
Tzyy-Chang HO

11:24 Retinal Transplant for Macular Hole in Macular Hole Rd  
Mahesh Shanmugam PALANIVELU

11:32 Internal Limiting Membrane Peeling and Air Tamponade for Stage III and Stage IV Idiopathic Macular Hole (Large Case Series)  
Wu LIU

11:40 Panel Discussion

11:46 Free Flap in the Management of Rhegmatogenous Retinal Detachment with Posterior Breaks  
San-Ni CHEN

11:54 Myopic Foveoschisis: A Condition We Still Know Little About  
Nikolle TAN

12:02 Surgery for Pediatric Retinal Detachment  
Joo Yong LEE

12:10 Pediatric Epiretinal Membranes with Tips and Tricks for Surgery  
Lawrence LEE

12:18 Panel Discussion

**Management of Open-Globe Posterior Segment Trauma**
In this symposium, controversies in the management of open-globe injuries will be presented and thoroughly discussed. An overview of these types of injuries will be provided, followed by a detailed breakdown of the controversies for which controlled clinical data regarding management is incomplete. Areas to be discussed include the timing of surgical intervention, use of prophylactic antibiotics, placement of a prophylactic scleral buckle, management of IOFBs, choice of intraocular tamponade agents, along with treatment and prevention of PVR. Guidelines for management, based on clinical data and the experience of the presenters, will be provided. Several videos will be shown, and time will be allotted for Q&A.

14:30 - 16:00  **Venue: Plenary Hall 3**
Chair(s): William MIELER, S NATARAJAN, Nawat WATANACHAI

14:30 Introduction  
William MIELER

14:33 Posterior Segment Trauma: Terminology and Classification  
Iwan SOVANI

14:45 Timing of Vitrectomy in Open-Globe Injuries  
William MIELER

14:57 Prophylactic Scleral Buckle: Beneficial, Essential, or Harmful  
Edmund WONG

15:09 Tamponade Agents: Factors to Consider in the Choice of Agents  
Nawat WATANACHAI

15:21 Management of Intraocular Foreign Bodies  
Adrian FUNG

15:33 Intravitreal/Systemic Antibiotics: Guidelines to Prevention of Infection, and Treatment of Proven Infection  
Sherman VALERO

15:45 PVR: Is There Effective Prophylaxis to Reduce the Risk?  
S NATARAJAN

15:57 Summary  
William MIELER
Surgical Retina Video: State-of-the-Art Tips and Tricks

16:30 - 18:00  **Venue: Plenary Hall 3**
**Chair(s): Chi-Chun LAI, Masahito OHJI, Chirat SAOVA PRUT**

16:30  Micro Incision Vitrectomy in Challenging Cases
Yusuke OSHIMA

16:40  Surgical Tips in ROP
Wei-Chi WU

16:50  Planned Foveal Detachment for Diabetic Macular Edema
Yuki MORIZANE

17:00  Implant of Artificial Retina: Taiwan CGMH Experience
Yih-Shiou HWANG

17:10  Intraoperative OCT
Makoto INOUE

17:20  The Role of Endoscopic Assistant System in Management of Challenging Retinal Detachment Cases
Dang Tran DAT

17:30  The Optimal Strategy of Internal Limiting Membrane Peeling for Macular Surgeries
Peiquan ZHAO

17:40  Resection or Reconstruction? Options for Managing Iridociliary and Choroidal Melanoma
Hany HAMZA

17:50  Management of Dislocation of Intraocular Lens Implant into Sub-Retinal Space
Ning (Danny) CHEUNG

Glaucoma: Looking into the Future
In this symposium, a world-renowned team of experts in a wide spectrum of glaucoma-related fields will discuss the latest scientific developments of our understanding of glaucoma pathogenesis. The topics range from basic molecular biology to cutting edge technology development. The goal of this symposium is to disseminate the bench to bed and back to bench knowledge to the meeting participants and foster opportunity for future collaborative endeavors.

14:30 - 16:00  **Venue: Meeting Room 4**
**Chair(s): Rachel KUCHTEY, Yutao LIU, Chaiwat TEEKHASAENEE**

14:30  The Role of Aqueous miRNAs in Exfoliation Glaucoma
Yutao LIU

14:40  Nailfold Capillary Microscopy: Novel Blood Flow Evaluation in Glaucoma
Clara COUSINS

14:50  Human Lens Capsule in True Exfoliation Syndrome
Cha iwatt TEEKHASAENEE

15:00  The Role of LOXL1 Gene in Exfoliation Syndrome
Ursula SCHLOTZER-SCHREHARDT

15:10  Connective Tissue Disorders in Glaucoma
Rachel KUCHTEY

15:20  Mitoprotective and Anti-Oxidant Treatment in Glaucoma
Robert RITCH

15:30  Bioengineered Human 3D Trabecular Meshwork
Ting XIE

15:40  Novel OCT Imaging for Glaucoma
Leopold SCHMETTERER

15:50  Questions and Answers

Visual Sciences

**Apseg Symposium: Genetics of Eye Traits and Eye Diseases in Children**
Nowadays globally, genetic eye diseases patients form a large proportion of pediatric ophthalmic practice. Knowledge of basic sciences would benefit the practicing ophthalmologists and research scientists of the field to update. This symposium will help you to understand the genetics of keratoconus and how ocular quantitative traits could influence health and disease. Besides, the session would also deal in depth about blindness secondary to high myopia/genetic differences between age-related macular degeneration and pachychoroid diseases. You would have the opportunity not only to understand how to deal with childhood glaucoma patients from a genetic point of view but also with a patient and family having a history of retinoblastoma.

16:30 - 18:00  **Venue: C Ground Meeting Room 2**
**Chair(s): Haoyu CHEN, Govindasamy KUMARAMANICKAVEL, Kaevalin LEKHANONT**

16:30  Pathogenic Variants of the Keratoconus Genes
Kathryn BURDON

16:42  Genetic Investigation of Ocular Quantitative Traits in Chinese Children
Li Jia CHEN

16:54  Moving Forward in Keratoconus - The Keratoconus International Consortium
Paul BAIRD

17:06  Genetic Background of Blindness Secondary to High Myopia/Genetic Differences Between Age-Related Macular Degeneration and Pachychoroid Diseases
Kenji YAMASHIRO
06

17:18 Genetic Testing for Childhood Glaucoma
Janey WIGGS

17:30 “I had Retinoblastoma When I was Young, What are the Risks for My Child?”
Retinoblastoma — Screening, Surveillance, and Saving Eyes
Sandra STAFFIERI

MAR 08, 2019 (FRI)

Academia, Research, Teaching and Education in Ophthalmology

APAO-ICO Sessions for Educators: Voice of Residents
During this session reports of various Fellowship programs across the world will be given. The strengths and weaknesses of each program will be discussed. By listening to the key points of different programs the participants will be able to decide how to improve their own programs and bring uniformity in content of programs in the Asia-Pacific Region.

09:00 - 10:30 Venue: Boardroom 4
Chair(s): Rajvardhan AZAD, Andrzej GRZYBOWSKI, Muhammad MOIN

09:00 Fellowship Program in India: Strength & Pitfalls
Bhuvan CHANANA

09:10 Fellowship Program in USA: Strength & Pitfalls
Luxmi HARAN

09:20 Fellowship Program in Bangladesh: Strength & Pitfalls
Syeed KADIR

09:30 Fellowship Program in Hong Kong: Strength & Pitfalls
Jason YAM

09:40 Fellowship Program in Sri Lanka: Strength & Pitfalls
Madhuwanthi DISSANAYAKE

09:50 Fellowship Program in Nepal: Strength & Pitfalls
Meenu CHAUDHARY

10:00 Fellowship Program in Pakistan: Strength & Pitfalls
Nasir SAEED

10:10 Fellowship Program in Philippines: Strength & Pitfalls
Joseph Anthony TUMBOCON

10:20 Fellowship Program in Malaysia: Strength & Pitfalls
Devaraj SUPRAMANIAM

Defending the Ophthalmologist in a Medical Malpractice Lawsuit: Global Comparative Overview of Multiple Legal Systems
This course will provide an overview of medical malpractice cases specific to ophthalmology in each speaker’s country, as well as to educate and present physicians with effective approaches to minimize liability and maximize an effective defense. Topics include malpractice litigations and terms important to an understanding of malpractice, a review of the malpractice lawsuit process and common theories of liability against ophthalmologists. Informed consent and the importance of preparation will be highlighted.

11:00 - 12:30 Venue: Boardroom 4
Chair(s): Kenneth LARYWON, Robert RITCH

11:00 Introduction
Robert RITCH

11:10 Malpractice in Thailand
Paisan RUAMVIBOONSUK

11:30 Malpractice in Japan
Kenji MINEMURA

11:50 Malpractice in India
Sunil MOREKER

12:10 Malpractice in US
Kenneth LARYWON

APAO-ICO Sessions for Educators: Maximizing Productivity and Quality Through Eye Care Team Development
An efficient and productive ophthalmologist is key to managing the increasing patient care schedule. An effective eye care team who are well-trained and highly skilled are essential to maximizing our productivity. This course will present educational strategies and practical applications to ensure that residents and your technical eye care team have the competencies needed. These innovative educational strategies include rigorous standards for training program evaluation, knowledge, and skill-based learning, and course and assessment resources ranging from simulations, learning self-assessments to practical workplace-based assessments (rubrics).

16:30 - 18:00 Venue: Boardroom 4
Chair(s): William ASTLE, Prashant GARG, Anita MANASSAKORN

16:30 Introduction: Maximizing Ophthalmologist Productivity with Education of the Eye Care Team
Wanicha CHUENKONGKAEW
16:40  Accreditation: Residency Programs & AOP
Karl GOLNIK

16:50  Best Practices in Education: Residents
Ana PALIS

17:00  Best Practices in Education: AOP
William ASTLE

17:10  Best Practices in Assessments: Residents
Catherine GREEN

17:20  Best Practices in Assessments: AOP
Prashant GARG

17:30  Best Practices in Educational Resources:
Residents and Allied Ophthalmic Personnel
Michael STEWART

17:40  Panel Discussion

### Cataract

**IOL Fixation with Deficient Capsular Support**

Every surgeon faces a dilemma of implanting an IOL in an eye with the deficient or absent capsule. This course helps the delegate master the various techniques one can use in such scenarios like sutured IOL, Hoffmann pockets, iris supported IOL, AC IOL, toric IOL in deficient capsules and the glued IOL or Yamane technique. The various problems one can encounter in such tricky IOL implantations will also be covered. Every technique will be showcased through videos for better understanding. Complications like captive iris, IOL tilt, refixing a dislocated IOL will also be taught.

11:00 - 12:30  **Venue: Plenary Hall 2**
Chair(s): Amar AGARWAL, Sritath VONGKULSIRI, Shin YAMANE

11:00  Introduction

11:02  Premium IOLs in the Setting of Capsular Rupture or Instability
John So Min CHANG

11:09  Sulcus Fixation of 3 Piece IOLs with Severe Zonulopathy
David CHANG

11:16  Glued IOL’s — Tips, Tricks, and Technique
Athiya AGARWAL

11:23  Glued IOL in Combination with Other Surgeries Including IOL Scaffold, Single-Pass Four Throw Pupilloplasty and Pre-Descemets Endothelial Keratoplasty (PDEK)
Amar AGARWAL

11:30  Yamane Technique
Shin YAMANE

11:37  Iris Claw IOL
Hungwon TCHAH

11:44  Sutured CTR
Soon-Phaik CHEE

11:51  Scleral Suture Fixation and Understanding with an Endoscope and UBM
Takeshi SUGIURA

11:58  Pars Plana Refixation of Dislocated IOL
Sritath VONGKULSIRI

12:05  Panel Discussion
George BEIKO, Burkhard DICK, Gaurav LUTHRA, Tetsuro OSHIKA, Mohan RAJAN

12:28  Conclusion

**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.

14:30 - 16:00  **Venue: Plenary Hall 2**
Chair(s): David CHANG, Pichit NARIPTHAPHAN, Hungwon TCHAH

14:30  Astigmatic Keratotomy
George BEIKO

14:37  Panel Discussion
John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA

14:42  Toric IOL Challenges
Sumitra KHANDELWAL

14:49  Panel Discussion
John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA

14:54  Patient Selection for Presbyopia-Correcting IOLs
Robert ANG

15:01  Panel Discussion
John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA

15:06  Monofocal Monovision
Pichit NARIPTHAPHAN

15:13  Panel Discussion
John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA

15:18  Post-LASIK Patients
Han Bor FAM
15:25  Panel Discussion  
*John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA*

15:30  Managing Postop Refractive Surprises — When & How?  
*Gerard SUTTON*

15:37  Panel Discussion  
*John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA*

15:42  Managing Unhappy Refractive IOL Patients  
*Gerd AUFFARTH*

15:49  Panel Discussion  
*John So Min CHANG, Burkhard DICK, Hungwon TCHAH, Abhay VASAVADA*

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**Master Class: Managing PC Rupture and Vitreous Prolapse**

This symposium will cover essential principles for anterior vitrectomy following posterior capsular rupture. The international faculty includes both the anterior segment and vitreoretinal specialists. Additional topics include the intraoperative management of remaining lens material, IOL implantation with a compromised posterior capsule, and postoperative management.

15:30 - 18:00  *Venue: Plenary Hall 2*  
*Chair(s): David CHANG, Thanapong SOMKIJRUNGROJ, Abhay VASAVADA*

16:30  Limbal Anterior Vitrectomy — Why and How  
*Victoria WONG*

16:37  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

16:41  Pars Plana Anterior Vitrectomy — Why and How  
*Abhay VASAVADA*

16:48  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

16:52  Anterior Vitrectomy Pitfalls for Cataract Surgeons  
*William MIELER*

16:59  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

17:03  Managing the Descending Nucleus  
*Richard PACKARD*

17:10  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

17:14  IOL Scaffold for Nucleus after PCR  
*Amar AGARWAL*

17:21  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

17:25  Converting to ECCE  
*David CHANG*

17:32  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

17:36  IOL Implantation following PCR  
*Thanapong SOMKIJRUNGROJ*

17:43  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

17:47  Reducing Endophthalmitis Risk with PCR  
*Haripriya ARAVIND*

17:54  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

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

**Restoring the Disrupted Anterior Segment Following Trauma — Accidental and Surgical**

This session will feature a variety of lectures and surgical videos that focus on a very common scenario in our clinical practice i.e. anterior segment traumas and emergencies. The symposium will be useful for anterior segment surgeons, general ophthalmologists and even residents, with tips on primary repair of corneoscleral injuries, surgical pearls for chemical burns and use of amniotic membrane transplants, as well as techniques for tectonic keratoplasties and repairs of lenticular or iris trauma.

16:30 - 18:00  *Venue: Plenary Hall 2*  
*Chair(s): David CHANG, Thanapong SOMKIJRUNGROJ, Abhay VASAVADA*

17:00  Overview of Accidental and Surgical Trauma to the Anterior Segment  
*Jina HAN*

17:12  Primary Surgical Repair of Penetrating Corneal and Scleral Injuries  
*Gerard SUTTON*

17:24  Chemical Burns, How to Restore the Ocular Surface  
*Pinnita PRABHASAWAT*

17:36  Technique and Indication for Amniotic Membrane Transplant  
*Mohammed ZIAEI*

17:48  Techniques and Indications for Tectonic Corneal Transplant  
*Marcus ANG*

17:54  Panel Discussion  
*Sumitra KHANDELWAL, Direk PATIKULSILA*

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10:00  Secondary Repair of Iris and Lenticular Injuries  
*Charles McGHEE*

10:12  Questions and Answers
Applied Corneal Laboratory Science
This session will showcase a variety of corneal regeneration research using therapeutic modalities such as cultivated cells, stem cells, scaffolds, and ROCK inhibitors, some already in clinical trial. The talks will cover treatments that target all three layers of the cornea.

11:00 - 12:30  Venue: Ballroom
Chair(s): Shigeru KINOSHITA, Jie ZHANG, Kaevalin LEKHANONT

11:00  The iFix Pen: 3D Bioprintng for Corneal Ulcers
Gerard SUTTON

11:10  Sex, Self and Stem Cells
Trevor SHERWIN

11:20  Trend Strategies of Ocular Surface Regeneration in Thailand
Pinnita PRABHASAWAT

11:30  Cultivated Autologous Limbal Stem Cells Using New Method for Mass Production
Vilavun PUANGSRICHARERN

11:40  iP5 Derived Corneal Epithelial Sheet for the Treatment of Ocular Surface Diseases
Kohji NISHIDA

11:50  The Potential of the Transition Zone for Corneal Endothelial Regeneration
Jie ZHANG

12:00  Culture of Corneal Endothelial Cell Using a Dual Media Approach — Regulatory Compliance and Beyond
Gary PEH

12:10  Use of Rho Kinase Inhibitors as Substitute for Endothelial Transplantation
Friedrich KRUSE

Debugging the Cornea
This symposium will touch on the essential aspects of various anterior segment infections that pose both diagnostic and management challenges. This will focus on the less typical yet difficult agents such as Mycobacterial & Acanthamoeba. In addition to medical treatment, surgical options “when all else fails” remains an important option.

14:30 - 16:00  Venue: Ballroom
Chair(s): Winai CHAIDAROON, Srinivas RAO, Alvin YOUNG

14:30  Ocular Demodicosis: Myth or Reality
Lingyi LIANG

14:40  ACSIKS
Savitri SHARMA

14:50  Management of Non-Tuberculous Mycobacterial Keratitis: The Great Masquerade
Kendrick SHIH

15:00  Diagnosis and Management of Acanthamoeba Keratitis
Elmer TU

15:10  Microsporidia Keratoconjunctivitis: Clinical Features and Management
Fung-Rong HU

15:20  Cytomegalovirus Endothelitis
Ka Wai KAM

15:30  Treatment of Infectious Scleritis
Eun Chul KIM

15:40  Surgical Management of Infective Keratitis
Srinivas RAO

15:50  Questions and Answers

EVER Symposium: Innovative Strategies for Corneal Regeneration

16:30 - 18:00  Venue: Ballroom
Chair(s): Thomas FUCHSLUGER, Shigeru KINOSHITA, Jodhbir MEHTA

16:30  Regeneration of the Ocular Surface Using Biomaterials and Modification of the Cornea
Thomas FUCHSLUGER

16:45  Basic Principle of Corneal Endothelial Regeneration
Shigeru KINOSHITA

17:00  Towards a Tissue Engineered Endothelial Keratoplasty; Proof of Concept in an In Vivo Sheep Model
Mark DANIELL

17:15  The Possibility of Medical Therapy for Fuchs Corneal Dystrophy
Keith BARATZ

17:30  Regenerative Medicine for Pediatric Endothelial Disease
Jodhbir MEHTA

17:45  Panel Discussion

Glaucoma

Glaucoma Imaging
Glaucoma imaging plays an important role in the glaucoma diagnosis which, at times, can be very complex especially in the glaucoma suspect group. These imaging tests can also help detect early progression of glaucoma. At the same time, the tests can sometimes lead to over diagnosis and over treatment in some patients. Every ophthalmologist should understand how to use these
technologies appropriately, and how to correctly apply the obtained information to provide the most benefit for the patients.

09:00 - 10:30  **Venue: Plenary Hall 1**  
Chair(s): Manchima MAKORNWATTANA, Ki Ho PARK, Kazuhisa SUGIYAMA

09:00  Textural Mapping for Defect Detection  
Christopher LEUNG

09:10  Using OCT in Advanced Glaucoma  
Leopold SCHMETTERER

09:20  Artificial Intelligence Assisted Assessment of Morphology of Optic Disc and Visual Field  
Fei LI

09:30  OCTAGON: Optical Coherence Tomography & Artificial Intelligence for Glaucomatous Optic Neuropathy  
Michael GIRARD

09:40  OCT-A Imaging for Glaucoma  
Kazuhisa SUGIYAMA

09:50  Glaucoma Imaging in the Myopic Eye  
Jost JONAS

10:00  Novel Imaging for Glaucoma  
Toru NAKAZAWA

10:10  Age-Related Changes of RNFL and Macular Thickness in Normal Populations: Implications for Glaucoma Evaluation  
Ching-Yu CHENG

10:20  Retinal Nerve Fiber Layer Damage in Pre-Perimetric Glaucoma  
M Afzal BODLA

**APGS Symposium: Hot Q & A**
The symposium will discuss 9 selected logical and practical aspects of glaucoma care from diagnosis to surgical treatment. Esteemed international faculty from the Asia-Pacific Glaucoma Society (APGS) will provide the rational answers to these most interesting questions in glaucoma care from the use of the provocative test, NTG, anterior segment imaging, laser treatment, to different types of glaucoma surgeries. Common questions, yet no clear answers, like whether iridotomy is necessary or should SLT be done early will be discussed. When to perform MIGS, clear lens extraction or surgery in early glaucoma and NTG will also be covered in this symposium. Finishing up with a specific issue about tube surgery in post-PK glaucoma.

11:00 - 12:30  **Venue: Plenary Hall 1**  
Chair(s): Ki Ho PARK, Prin ROJANAPONGPUN, Tetsuya YAMAMOTO

11:00  Is There a Place for Provocative Test?  
Lingam VIJAYA

11:10  Is NTG and POAG the Same Disease?  
Lutz PILLUNAT

11:20  Is Anterior Segment Imaging Better Than Gonioscopy?  
Ching-Lin HO

11:30  Is Prophylactic Iridotomy Necessary for Narrow Angle?  
Makoto ARAIE

11:40  Is SLT the Best Option for Early Intervention?  
Tan DO

11:50  Is MIGS Better for Early Intervention in OAG?  
Ningli WANG

12:00  Is Clear Lens Extraction the Best Option for Angle Closure?  
Clement THAM

12:10  Is Early Surgery the Best Option for NTG?  
Tetsuya YAMAMOTO

12:20  Is Tube Surgery a Better Option for Post-PK Glaucoma?  
Md.Nazrul ISLAM

**Film Festival**
The Glaucoma Film Festival is a video-based symposium presented by experts around the world, on surgery for glaucoma and cataracts, including tips and pearls on MIGS, glaucoma filtering surgeries and managing its complications.

14:30 - 16:00  **Venue: Plenary Hall 1**  
Chair(s): Norman AQUINO, Seng Kheong FANG, Wallop LEM SOMBOON

14:30  How to Phaco When the ACD < CCT  
Shamira PERERA

14:40  The Value of Ab-Externo Canaloplasty Today  
Clive PECKAR

14:50  Revision of Over-Filtering Blebs Using Scleral Patch Grafts  
Joseph Anthony TUMBOCON

15:00  Repairing Large Leaking Bleb with Conjunctival Advancement  
Kazu hiko MORI

15:10  Laser Assisted Non-penetrating Deep Sclerectomy  
Noel CHAN

15:20  Ab Interno MIGS Trabeculotomy with Microhook  
Makoto AIHARA

15:30  Dealing with Complications of iStent Insertion Part I  
Bryan ANG

15:35  Dealing with Complications of iStent Insertion Part II  
Vivien YIP

15:40  Tips for Tube Surgery  
Thasarat VAJARANANT
Case Presentation and Discussion
This symposium focuses on what the audience can learn about the interesting aspects of glaucoma case presentation. Experts from various institutes in the Asia-Pacific region will share and discuss their cases in terms of diagnosis, investigations, and management. These will enhance the insights of ophthalmologists on clinical presentation of glaucoma that they may not be ordinary ones.

16:30 - 18:00  Venue: Plenary Hall 1
Chair(s): Poemen CHAN, Visanee TANTISEVI, Tetsuya YAMAMOTO

16:30 A Complicated Case
Liuzhi ZENG

16:40 Traumatic Hyphemia
Vijaya LINGAM

16:50 Steroid Induced Cataract and Glaucoma in a Child of Nephrotic Syndrome
Nadeem BUTT

17:00 Canaloplasty for Iridocorneal Endothelial Syndrome: The Rationale and 4 Cases
Yuanbo LIANG

17:10 Glaucoma Suspect Cases Showing Different Rate of Progression
Tae Woo KIM

17:20 Nanophthalmos with Primary Angle Closure Glaucoma
Ming-Yueh LEE

17:30 Epithelial Downgrowth and UGHS
Darin SAKIYALAK

17:40 Acute Corneal Subepithelial Hydrop
Poemen CHAN

17:50 Glaucoma or Else?
Visanee TANTISEVI

Intraocular Inflammation, Uveitis & Scleritis

Immunomodulatory Intervention in the Treatment of Recalcitrant Non-Infectious Uveitis
Management of ocular inflammatory diseases can be challenging in some patients and the best treatment for each case has to be tailor-made according to both medical and socioeconomic conditions. Various management of recalcitrant ocular inflammatory diseases in different institutes will be described and discussed.

16:30 - 18:00  Venue: Meeting Room 4
Chair(s): Ann-Marie LOBO, Aniki ROTHOVA, Nattaporn TESAVIBUL

16:30 Dealing with Recalcitrant Non-Infectious Uveitis in Thailand
Nattaporn TESAVIBUL

16:40 Current Approach in Selecting Immunomodulatory Agents in Treatment of Intermediate, Posterior and Pan Uveitis
John GONZALES

16:50 Immunosuppressive Agents in Behcet’s Disease in Thailand
Kessara PATHANAPITOON

17:00 Ocular Sarcoidosis and the Best Systemic Options
Aniki ROTHOVA

17:10 Immunomodulatory Treatment in Recalcitrant VKH Disease
Jyotirmay BISWAS

17:20 Seronegative Spondyloarthropathy Related Uveitis (HLA B27 Associated Uveitis) and Immunomodulatory Treatment
Ann-Marie LOBO

17:30 Questions and Answers

Miscellaneous

APAO Leadership Development Program 2018-19 Graduating Class 1
09:00 - 10:30  Venue: Auditorium
Chair(s): Madhuwanthi DISSANAYAKE, Catherine GREEN, Sherman VALERO

09:00 Opening Remarks
Catherine GREEN

09:05 Younger Ophthalmologists in Australia: Fast-tracking the Organisation to the 21st Century
Chameen SAMARAWICKRAMA

09:13 Training in Pediatric Ophthalmology
Than Htun AUNG

09:21 Ethics and Professional Development for Residents-in-Training
Lorenzo FERNANDEZ

09:29 The Establishment of a Permanent Secretariat for the Asia-Pacific Ophthalmic Plastic and Reconstructive Surgery
Raoul Paolo HENSON

09:37 Changes in Teaching Residents How to Perform Cataract Surgery in Korea
Jae Yong KIM

09:45 An Establishment of an Eye Bank and Cornea Surgical Training Program in Cambodia
Dalin CHEA
09:53 Connection of Multidisciplinary Physicians and Medical Personnel in Ophthalmology -- from Class to Work
Youn-Shen BEE

10:01 Connecting Low Vision Patients from Hospital to Organizations Supporting Disabilities
Yasuhiko HIRAMI

10:09 GRiP (Glaucoma Risk Indicator Program)
Shahzad SAEED

APAO-AAO-SOE Joint Session: Young Ophthalmologists Forum
The Young Ophthalmologists symposium is the only dedicated session for YO to attend in APAO, with useful talks on YO activities around the world, how to set up your own YO society, how to hone your surgical skills as a YO, and how to produce an award-winning video. We will also be giving out YO awards for the Best Presentation, and most promising YO nominated by their Society.

11:00 - 12:30 Venue: C Ground Meeting Room 2
Chair(s): Marcus ANG, Seng Kheong FANG, Ian WONG
11:00 Introduction to YO! An Update on YO Activities in the World and in the Asia-Pacific
Sasapin PRAKALAPAKORN
11:08 How to Set Up Your Own YO Chapter
Diva MISRA
11:16 How to Master YO(ur) Surgical Skills
Naris KITNARONG
11:24 How do I Produce an Award-Winning Video?
Simon FUNG
11:32 YO Case Presentation 1
11:42 YO Case Presentation 2
11:52 YO Case Presentation 3
12:02 YO Case Presentation 4
12:12 YO Case Presentation 5
12:22 Panel Discussion

APAO Leadership Development Program 2018-19
Graduating Class 2
11:00 - 12:30 Venue: Auditorium
Chair(s): Marcus ANG, Shaheeda MOHAMED, Muhammad MOIN
11:00 National Ophthalmic Cancer Registry Mobile App
Kavin VANIKIETI
11:08 Building a SMART Generation: Increasing the Awareness of Accessibility Features on SMART Devices
Anna TAN
11:16 TBC
Fairooz Puthiyapurayil MANJANDAVIDA
11:24 Orbital and Ocular Trauma in the Asia Pacific
Gangadhara SUNDAR
11:32 Retinal Diseases Awareness Program in Nepal
Raba THAPA
11:40 Comparison Between Automated and Manual Grading of Fundus Photographs for Diabetic Retinopathy Screening
Amir SAMSUDIN
11:48 Improving the Quality of Donor Cornea to Maximize the Visual Outcome of Patients
Kusuma RATNAYAKE
11:56 Promoting Quality and Safety Initiatives in Ophthalmology Practice
Jonathan HO
12:04 Conclusion
Catherine GREEN

APAO Leadership Development Program 2019-20
Orientation Class 3: Insights Discovery Program — Getting Your Message Across
Open to APAO LDP Class 2019-20 Participants only.
14:30 - 16:00 Venue: Auditorium
14:30 Insights Discovery: Communicating in Color Part I
Simon ABBOTT

This clinically oriented symposium is directed to practicing ophthalmologists and trainees who are faced with the opportunities and challenges in adopting new technology in ophthalmology. How do you know when is the right time to prescribe a new drug or implant a new device? Each speaker is a global leader in their field and will present their personal perspective on the potential use of a newly approved drug or device that can be used in clinical practice and discuss its pros and cons compared to the more established treatment options.
14:30 - 16:00 Venue: Meeting Room 3
Chair(s): Richard ABBOTT, Marie-Jose TASSIGNON, Clement THAM
14:30 Brief Introduction of AOI
Richard ABBOTT
14:34 How to Incorporate New Technology into One’s Practice: Ethical and Medicolegal Considerations  
Richard ABBOTT

14:42 Cataract  
Marie-Jose TASSIGNON

14:50 Pediatrics  
Frank MARTIN

14:58 Oncology  
Martine JAGER

15:06 Cornea (Medical)  
Shigeru KINOSHITA

15:14 Cornea (Surgical)  
Charles McGHEE

15:22 Glaucoma  
Clement THAM

15:30 Retina (Medical)  
Masayo TAKAHASHI

15:38 Panel Discussion

15:53 Conclusion  
Richard ABBOTT

APAO Leadership Development Program 2019-20 Orientation Class 4: Insights Discovery Program — Getting Your Message Across  
Open to APAO LDP Class 2019-20 Participants only.

16:30 - 18:00 Venue: Auditorium

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

17:45 Next Steps: Masterclass Queensland, Australia and Graduation in Xiamen, China 2020  
Catherine GREEN

Neuro-Ophthalmology

The Most Commonly Asked Questions of Neuro-Ophthalmologists  
Neuro-ophthalmologists often receive inquiries from colleagues about how to deal with tricky neuro-ophthalmology clinical scenarios they encounter. In this symposium, we have selected 6 most commonly asked questions to share with the audience, including how to distinguish visual loss due to retinal causes from optic neuropathy, normal-tension glaucoma from non-glaucmatous optic neuropathy, papilloedema from pseudo papilledema; as well as the management of optic neuritis, esotropia with abduction weakness and non-organic visual loss.

09:00 - 10:30 Venue: Meeting Room 3  
Chair(s): Nipat AUI-AREE, Dean CESTARI, Carmen CHAN

09:00 Is the Visual Loss from Retinal or Optic Nerve Causes?  
Clare FRASER

09:15 How do I Distinguish Normal-Tension Glaucoma from Non-Glaucomatous Optic Neuropathy?  
Carmen CHAN

09:30 What are the Best Office and Ancillary Tests for Non-Organic Visual Loss?  
Celia CHEN

09:45 How do I Distinguish Papilledema from Pseudopapilledema?  
Fang LU

10:00 What is the Workup for Esotropia with Abduction Weakness?  
Dean CESTARI

10:15 Do I Give My Patient with Acute Optic Neuritis Steroids?  
Shaoying TAN

APAO–NANOS Symposium: Neuro-Ophthalmologic Emergencies – How to Tell When It is an Emergency and When It is Not  
Certain clinical syndromes in neuro-ophthalmology represent life- or vision-threatening situations that require immediate recognition and appropriate and timely intervention. This symposium utilizes a case-based approach to present selected illustrative clinical scenarios, highlight the essential differential diagnostic points between emergencies or not, and review the initial management steps of each neuro-ophthalmologic condition.

11:00 - 12:30 Venue: Meeting Room 3  
Chair(s): Lynn GORDON, Busaba SATHORNSUMETEE, Shihui WEI

11:00 A Middle-Aged Patient with Acute Visual Loss and Ophthalmoparesis  
Lynn GORDON

11:15 A Young Adult with Facial Pain, Anisocoria, Normally Reactive Pupils  
Dan MILEA

11:30 An Elderly Patient with Acute Severe Unilateral Visual Loss and a Normal Fundus  
Sharon TOW

11:45 A Patient with Double Vision, Ptosis, and a Slightly Dilated Pupil  
Satoshi KASHII

12:00 An Older Patient with Transient Monocular Visual Loss  
Karl GOLNIK
### Ocular Imaging

**What’s New in Glaucoma Imaging?**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:30</td>
<td><strong>Meeting Room 3</strong></td>
<td>Neeru GUPTA, Christopher LEUNG, Boonsong WANICHWECHARUNGRUANG</td>
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<tr>
<td>16:40</td>
<td>Progression Analysis by Imaging</td>
<td>Christopher LEUNG</td>
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<td>16:50</td>
<td>OCT Angiography</td>
<td>Henry Shen-Lih CHEN</td>
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<td>17:00</td>
<td>Imaging Deep Optic Nerve Head Structure</td>
<td>Atsuya MIKI</td>
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<td>17:10</td>
<td>Impaired CSF Entry into the Optic Nerve in Glaucoma</td>
<td>Neeru GUPTA</td>
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<td>17:20</td>
<td>Deep Learning System for Detecting Glaucomatous Optic Neuropathy</td>
<td>Mingguang HE</td>
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<tr>
<td>17:30</td>
<td>OCT-A in Myopia</td>
<td>Yanin SUWAN</td>
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<td>17:40</td>
<td>Does OCTA Play a Role in the Detection of Glaucoma Progression?</td>
<td>Kuryshcheva NATALIA</td>
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<td>17:50</td>
<td>Panel Discussion</td>
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### Ocular Oncology & Pathology

**Basic Science in Ocular Oncology**

Ocular oncology is a quickly developing area. With new knowledge about tumor genetics and the role of immune responses, patient treatment is becoming more scientific instead of one treatment for all. Personalized medicine is becoming reality, and studying differences in inflammatory markers, eye color or using tumor/derived organoids may help in selecting the appropriate treatment for specific cases. Not only do we learn more about the tumors and patients, but also the characteristics of traditional drugs are being elucidated. All this makes ocular oncology an exciting area, in which much progress is expected, as will be shown in this symposium.

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<tr>
<th>Time</th>
<th>Venue</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>11:00</td>
<td><strong>Lotus Room</strong></td>
<td>Martine JAGER</td>
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<tr>
<td>11:11</td>
<td>Pigment and Uveal Melanoma</td>
<td>Michele MADIGAN</td>
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<td>11:22</td>
<td>NFKB Pathway in Uveal Melanoma</td>
<td>Mithalesh SINGH</td>
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<td>11:33</td>
<td>Chinese Medicine and Uveal Melanoma</td>
<td>Jinfeng CAO</td>
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<td>11:44</td>
<td>Cigarette Smoking on Human Pterygium Neoplastic Cells: Harmful or Beneficial?</td>
<td>Tsz-Kin NG</td>
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<td>11:55</td>
<td>Immunotherapy and Sebaceous Gland Carcinoma</td>
<td>Lato SINGH</td>
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<td>12:06</td>
<td>Retinoblastoma Organoids</td>
<td>Duangnate ROJANAPORN</td>
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<td>12:17</td>
<td>Retinoblastoma Stem Cells</td>
<td>Geeta VEMUGANTI</td>
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**Pathology Cases**

Speakers in this oncology/pathology session will, in a rapid-fire session, present a fascinating spectrum of challenging cases from the region and elsewhere with clinicopathologic correlation. The session will provide a great learning experience and a forum for discussion for ophthalmologists and ophthalmologists in training.

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<tr>
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<th>Venue</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:30</td>
<td><strong>Lotus Room</strong></td>
<td>Anita CHAN, Deepak EDWARD, Xianqun FAN</td>
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<tr>
<td>16:38</td>
<td>Orbital Lesion with Brown Spots</td>
<td>Deepak EDWARD</td>
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<td>16:46</td>
<td>Sebaceous Cell Carcinoma with Pagetoid Spread</td>
<td>Hunter YUEN</td>
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<td>16:54</td>
<td>Cytological Diagnosis of Intraocular Lymphoma Supported by Single Cell Molecular Analysis</td>
<td>Anita CHAN</td>
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<td>17:02</td>
<td>TBC</td>
<td>Issam AL JAJEH</td>
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<td>17:10</td>
<td>Lentigo Maligna with Spread to Conjunctiva</td>
<td>Vivian YIN</td>
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<td>17:18</td>
<td>Malignancy Masquerading as Inflammatory Orbital Disease</td>
<td>Nripen GAUR</td>
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<td>17:26</td>
<td>Large Lacrimal Gland Fossa Mass — Keep an Open Mind</td>
<td>Jason LEE</td>
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</table>
17:34 Rhabdoid Tumor Mimicking Retinoblastoma
  Duangnate ROJANAPORN

17:42 Panel Discussion

**Ophthalmic Epidemiology, Telemedicine, Big Data & AI**

**Predictors of High Myopia and Pathologic Myopia**
Myopia is a global public health burden particularly prevalent in urban Asian populations. Our focus is on high myopia as adults with high myopia are more likely to develop pathologic myopia changes that can lead to blindness. The identification of the risk factors for high myopia and the natural history of high myopia and pathologic myopia will be discussed. Accordingly, preventive measures and treatment are necessary for each step of myopia progression toward vision loss.

11:00 - 12:30 **Venue: Meeting Room 1**
Chair(s): Chris HAMMOND, Ian MORGAN, Seang Mei SAW

11:00 Worldwide Epidemiology of High Myopia
  Ian MORGAN

11:10 Risk Factors for High Myopia and Pathologic Myopia
  Kathryn ROSE

11:20 Genetics of Simple, High and Pathological Myopia: Same or Different?
  Chris HAMMOND

11:30 Genetic Prediction of High Myopia
  Pirro HYSI

11:40 Choroidal Thinning and High Myopia
  Chee-Wai WONG

11:50 Scleral Rigidity in Highly Myopic Eyes
  Donny HOANG

12:00 Eye Shape and High Myopia
  Anthony KUO

12:10 Epidemiology, Risk Factors and Visual Impact of Pathologic Myopia in Singapore
  Seang Mei SAW

12:20 Panel Discussion

**Orbital and Oculoplastic Surgery**

**Controversies in Orbital Trauma**
Ophthalmologists dealing with orbital trauma face challenging issues in obtaining the best clinical outcome which includes restoration of the bony structures and soft tissues functions. Orbital trauma cases include orbital fractures, orbital foreign bodies, globe injuries, as well as optic nerve damages. Basic orbital trauma care, advanced surgical techniques, the optimal time of repair, preferred orbital implant materials, new modalities of imaging, trend of oculoplastic treatment and its evolving concepts will be discussed in this symposium.

09:00 - 10:30 **Venue: Lotus Room**
Chair(s): Orapan ARYASIT, Chaiteck CHOO, Xianqun FAN

09:00 Orbital Fracture: Not Everyone Takes the Same Path
  Aree NIMITWONGSAKUL

09:10 Primary Enucleation in Severe Traumatized Eye
  Orapan ARYASIT

09:20 Transcaruncular Orbital Optic Canal Decompression in Traumatic Optic Neuropathy
  Kasturi BHATTACHARJEE

09:30 3D Printing-Assisted Reconstruction of Orbital Blowout Fractures — Isn’t It Expensive?
  Ho-Seok SA

09:40 Implants for Orbital Reconstruction — Is There an Ideal Choice?
  Gangadharra SUNDAR

09:50 Orbital Foreign Body
  Chaiteck CHOO

10:00 Transantral Endoscopy and 3D-Printing as Operative Adjuncts in Large Orbital Blow-Out Fractures
  Kelvin Kam-Lung CHONG

10:10 Next Generation Approach to Orbital Fracture
  Xianqun FAN

**Office-Based Oculoplastic Procedures**
The office-based oculoplastic procedure is very useful and easy performing procedures. It will be simple, fast, minimal down time, and cost saving. This symposium will cover the common aesthetic technical points, facial rejuvenation with dermal fillers and hyaluronic acid gel, minimal invasive ptosis repair, also functional reconstruction and lacrimal intubation procedures.

14:30 - 16:00 **Venue: Lotus Room**
Chair(s): Raoul Paolo HENSON, Dongmei LI, Preamjit SAONANON

14:30 Form and Finesse in Oculo-Facial Rejuvenation with Dermal Fillers
  Chee-Chew YIP

14:40 The Two Minute Ptosis Repair
  Bobby KORN

14:50 Comprehensive Repair of Periorbital Soft Tissue with Hyaluronic Acid Gel
  Wei LU
15:00  Punctoplasty with Insertion of Mini-Monoka Stent  
Raoul Paolo HENSON

15:10  Lower Blepharoplasty for Young Adult  
Preamjit SAONANON

15:20  Intralesional Triamcinolone for Vascular Malformations Without Communication  
Mary Rose YAN

15:30  Lacrimal Intubation for Primary Acquired NLDO  
Akihide WATANABE

15:40  Management of Exposure Keratopathy  
Sunny SHEN

15:50  Questions and Answers

**Pediatric Ophthalmology & Strabismus**

**Management of Diplopia and Nystagmus Made Easy**  
This session focuses on treatment options for nystagmus and diplopia. Approach to sudden onset diplopia, assessment and treatment of diplopia in case of superior oblique palsy and thyroid eye disease will be discussed. Additionally, approach to childhood nystagmus, surgical options for nystagmus and newer modalities will be covered. Finally, two interesting cases of diplopia will be presented along with a panel discussion.

09:00 - 10:30  **Venue: Meeting Room 2**  
Chair(s): Shuan DAI, Ramesh KEKUNNAYA, Penny SINGHA

09:00  Approach to Torsional Diplopia in Patients with Superior Oblique Palsy  
Wei ZHANG

09:10  Management of Diplopia in Patients with Thyroid Eye Disease  
Venkateshwar Rao BHOOMPALLY

09:20  Sudden Onset of Painful Diplopia  
Naz RAOOF

09:30  Clinical Approach to Childhood Nystagmus Diagnosis  
Shuan DAI

09:40  Extraocular Muscle Stimulator Application in Nystagmus Treatment  
Lejing WANG

09:50  Strabismus Surgery for Nystagmus  
Lionel KOWAL

10:00  Interesting Strabismus Case  
Ramesh KEKUNNAYA

10:10  Questions and Answers

**Orbit Related Strabismus — Myths and Facts**  
The strabismus surgeon often has to deal with orbital diseases and their effects on extraocular muscles. The symposium addresses some of these major orbit-related challenges. A spectrum of approaches will be discussed. Surgical techniques will be illustrated. Tips and pearls will be offered by expert orbit and strabismus surgeons alike, along with a few case examples. Audience participation and discussion will be encouraged.

11:00 - 12:30  **Venue: Meeting Room 2**  
Chair(s): Sonal FARZAVANDI, Faruk ORGE, Prapatsorn PATIKULSILA

11:00  Update on Implant Selection for Orbital Floor Fracture Repair  
Srini IVENGAR

11:10  Tackling Strabismus After Orbital Floor Fractures  
Faruk ORGE

11:20  Characteristics of Orbital Tumors Leading to Strabismus  
Peter DOLMAN

11:30  Strabismus with and without Known Tumor in the Orbit  
Jan Tjeerd DE FABER

11:40  Cicatricial Thyroid Eye Disease  
Lay Leng SEAH

11:50  Strabismus in Thyroid Eye Disease: What’s New?  
Sonal FARZAVANDI

12:00  Challenging Cases: Unusual Strabismus Related to Unusual Orbital Disorders  
Alain SPIELMANN

12:10  Questions and Answer

**SOE Symposium: A Presidential Gift from the West to the East**  
The East gave gunpowder and fireworks to the West many centuries ago. Nowadays consumer fireworks cause a lot of eye injuries in Western Europe. In the first half of this session the treatment of firework-related eye injuries will be discussed. In the second half of this session I will show my work as a pediatric ophthalmologist in the Rotterdam Zoo in a lecture “Gorilla’s out of the mist”. It will give you an impression of the variety of eye diseases in a zoo and surgical techniques of cataract removal in Gorilla’s, birds, horse and in a cod fish.

14:30 - 16:00  **Venue: Boardroom 2**  
Chair(s): Jan Tjeerd DE FABER

14:30  Firework Related Eye Injuries  
Jan Tjeerd DE FABER
15:15 “Gorilla’s Out of the Mist” — Pediatric Ophthalmologist in the Zoo
Jan Tjeerd DE FABER

Pediatric Retinal Diseases
The session aims to provide the latest development of pediatric retina. The main discussed disease is ROP, the leading cause of childhood blindness. The contents include epidemiology, strategies to prevent visual loss, the application of artificial intelligence, tele-screening, things to watch out after the use of anti-VEGF for ROP, and the challenges in ROP. In addition to that, important pediatric retinal diseases such as retinoblastoma and the surgical technique of retinoschisis will be covered. This information in the session will give you an in-depth understanding of the hottest questions in the field of ROP as well as other pediatric retinal disorders.

14:30 - 16:00 Venue: Meeting Room 2
Chair(s): R.V. Paul CHAN, Supaporn TENGRISORN, Wei-Chi WU

14:30 Cases that are Easily Confused with Retinoblastoma
Jianhong LIANG
14:39 Torpedo Maculopathy
Wai-Ching LAM
14:48 Vitrectomy for Congenital X-linked Retinoschisis
Shunji KUSAKA
14:57 ROP: Challenges Beyond Vascularization
Sumita AGARKAR
15:06 Delay Fibrovascular Contraction After Anti-VEGF Injection for ROP
Atchara AMPHONPHRUET
15:15 The Epidemiology of ROP and ROP Requiring Treatment in Taiwan
Wei-Chi WU
15:24 Strategies for Prevention of ROP Related Visual Loss in Developing & Developed Countries
Shuan DAI
15:33 The Application of Artificial Intelligence for ROP Screening
Daniel TING
15:42 Training for ROP and Implementation of a ROP Telemedicine Program
R. V. Paul CHAN
15:51 Outcome of Telemedicine in ROP Network, 5 Years’ Result
Phanthipha WONGWAI

Prevention of Blindness
Cutting Edge Approaches to the Leading Eye Health Problems in the Asia Pacific
The burden of visual impairment falls unfairly on poorer parts of the world: 90% of global blindness occurs in low- and middle-income countries (LMICs), while 90% of research dollars are spent in rich countries. Nonetheless, the potential exists to do “more with less”, as new innovations such as AI, smartphone apps and cost-effective approaches to glaucoma screening gain ever-wider currency. This session will describe the latest developments in management of the leading blinding diseases in LMIC settings.

14:30 - 16:00 Venue: Boardroom 4
Chair(s): Ving Fai CHAN, Nathan CONGDON, Kittikul LEELAWONGS

14:30 Impact of Correcting Presbyopia in the Adult Population: Learning and the Way Forward
Ving Fai CHAN
14:40 Glaucoma Screening in Low and Middle Income Countries: Is It Cost-Effective? 
Yuanbo LIANG

14:50 DR, AI, and Their Implications for Low-Resource Screening 
Rajiv RAMAN

15:00 New BOOST App and Opportunities to Capture Cataract Surgical Outcomes Where Follow-Up is Poor 
Nathan CONGDON

15:10 Advocacy and Cooperation with Industry 
Samuel BRUNDRETT

15:20 Association Between Diabetic Retinopathy and Diabetic Nephropathy 
Ailian HU

15:30 Panel Discussion

Refraction Surgery

Presbyopic Treatment

09:00 - 10:30 Venue: Meeting Room 1  
Chair(s): Robert ANG, Klaus DITZEN, Olan SUWANAPICHON

09:00 Biomechanical Changes and Improved Visual Performance After a New Presbyopia Therapy: Laser Scleral Microporation 
Sunil SHAH

09:11 Dynamic Accommodative Changes in Macaque Primate Eyes Following Laser Scleral Microporation Assessed with Ray-Tracing Aberrometry 
Jodhbir MEHTA

09:22 Simulation of Restored Accommodation After Scleral Therapies Using Finite Element Analysis 
Annmarie HIPSLEY

09:33 Presbylasik and Corneal Inlays: Pros and Cons 
Robert ANG

09:44 Laser Blended Vision for Presbyopic Treatment 
Klaus DITZEN

09:55 Presbyond & SMILE Procedures for Correction of Presbyopia 
Sri GANESH

10:06 Tifocals IOL Versus EDOF 
John So Min CHANG

10:17 Smart Electronic Lens for Presbyopia 
Dimitri AZAR

Corneal & Intraocular Implants for Refractive Corrections (ICRs, Phakic IOL, etc)

14:30 - 16:00 Venue: Meeting Room 1  
Chair(s): Ronald KRUEGER, Wiwan SANSANAYUDH, Kimiya SHIMIZU

14:30 ICL: Does Size Matter? 
Pichit NARIPTHAPAN

14:40 Cornea Inlays 
Ronald KRUEGER

14:50 ICL: History, Development, Advantages, Indications 
Kimiya SHIMIZU

15:00 Phakic IOLs in Complex Situations 
Ramamurthy DANDAPANI

15:10 Managing ICL Complications 
Gaurav LUTHRA

15:20 The New Ferrara HM: A Refractive Alternative for High Myopes Patients with Thin Corneas 
Leonardo TORQUETTI

15:30 Long Term Results of Tissue Addition Technique for Hyperopia 
Sri GANESH

15:40 Lamellar Intrastromal Keratoplasty for High Hyperopia 
Ronald KRUEGER

15:50 Panel Discussion

Keratoconus and Refractive Management (Basic Science, Diagnosis, ICRs, Others)

16:30 - 18:00 Venue: Meeting Room 1  
Chair(s): Jorge ALIÓ DEL BARRIO, Vannarut SATITPITAKUL, Leonardo TORQUETTI

16:30 Basic Science of Keratoconus 
Rohit SHETTY

16:41 320-ICRS: Changing Paradigms in Keratoconus 
Leonardo TORQUETTI

16:52 Diagnosis and Treatment Modalities of Keratoconus 
Darby MILLER

17:03 Long-Term Effect on Corneal Curvature of Corneal Collagen Crosslinking for Keratoconus 
Ruben Lim Bon SIONG

17:14 Enhancing Vision with Combination Treatments in Keratoconus 
Anand PARTHASARATHY
**SCIENTIFIC PROGRAM SCHEDULE**

### Retina (Medical)

**APVRS Symposium: Myopic Maculopathy**

- **09:00 - 10:30**  
  **Venue:** Plenary Hall 3  
  **Chair(s):** Timothy LAI, Xiaoxin LI, Hiroko TERASAKI

  - **09:00**  
    Epidemiology and Progression of Pathologic Myopia  
    Jost JONAS

  - **09:15**  
    Myopic Traction Maculopathy: Staging and Guidelines to Management  
    Barbara PAROLINI

  - **09:30**  
    Inflammatory Disease Related to Pathological Myopia: Clinical Observation and Thinking  
    Xiaoling LIU

  - **09:45**  
    Myopic CNV: Evidence Based Management  
    Timothy LAI

  - **10:00**  
    Management of Myopic Traction Maculopathy  
    Hiroko TERASAKI

  - **10:15**  
    Complications of Myopic Maculopathy Surgery  
    Andrew CHANG

**WIO Symposium: Unlocking the Doors to Challenges in Medical Retina & Uveitis — A series of Challenging Cases**

- **11:00 - 12:30**  
  **Venue:** Meeting Room 4  
  **Chair(s):** Shu Yen LEE, Kessara PATHANAPITOON, Seung Young YU

  - **11:00**  
    Case 1  
    Nuzhat CHOUDHURY

  - **11:15**  
    Case 2  
    Mirunalini KUMARADAS

  - **11:30**  
    Case 3  
    Ann-Marie LOBO

  - **11:45**  
    Case 4  
    Nor Fariza NGAH

  - **12:00**  
    Case 5  
    Eli PRADHAN

**ISCEV Instruction Course: Clinical Usefulness of Electrophysiology**

- **11:00 - 12:30**  
  **Venue:** Plenary Hall 3  
  **Chair(s):** Graham HOLDER, Atiporn THUANGTONG, Shuichi YAMAMOTO

  - **11:00**  
    Principles of Electrophysiology  
    Bo LEI

  - **11:18**  
    Diagnosis for Inherited Retinal Diseases  
    Tharikarn SUJIRAKUL

  - **11:36**  
    Diagnosis for Acquired Retinal Diseases  
    Mineo KONDO

  - **11:54**  
    Diagnosis for Optic Nerve and Other Diseases  
    Graham HOLDER

  - **12:12**  
    Clinical Case 1  
    Bo LEI

  - **12:15**  
    Clinical Case 2  
    Tharikarn SUJIRAKUL

  - **12:18**  
    Clinical Case 3  
    Mineo KONDO

  - **12:21**  
    Clinical Case 4  
    Graham HOLDER

**Retinal and Choroidal Vascular Disorders**

This session is divided into 3 parts, starting with presentations on the current management of retinal vein occlusions. Thereafter is an update on the management of pachychoroidal diseases and finally, there will be 3 presentations on the treatment options for central serous chorioretinopathy. The learning aims for the audience are to understand the indications and outcomes when treating retinal and choroidal vascular conditions with different treatment modalities.

- **14:30 - 16:00**  
  **Venue:** Plenary Hall 3  
  **Chair(s):** Marten BRELEN, Taraprasad DAS, Mansing RATANASUKON

  - **14:30**  
    Current Management of RVO  
    Raja NARAYANAN

  - **14:42**  
    Role of Laser Treatment in RVO  
    Ian MCALLISTER
14:54 Update in Pachychoroid  
*Won Ki LEE*

15:06 Imaging Characteristics of Pachychoroid Diseases  
*Xinyuan ZHANG*

15:18 Role of Anti-VEGF Therapy in CSC  
*Shu Yen LEE*

15:30 Role of Mineralocorticoid Antagonist in CSC  
*Pear PONGSACHAREONNONT*

15:42 Role of Laser Treatment in CSC  
*Marten BRELEN*

**Technology and Innovations in Medical Retina**

Advances in retinal diagnostics are moving forward at a break-neck pace. These range from the highest-resolution small field imaging using adaptive optics and high-resolution OCT to widefield imaging spanning the entire fundus. In addition to advances in resolution and field of view, imaging breakthroughs are improving image contrast, taking advantage of new imaging spectra. Advances in diagnostics are not limited to optical techniques alone, with new innovations in electrophysiology providing novel insights into retinal function. Finally, to contend with massive amounts of new diagnostic data, big data and artificial intelligence techniques have evolved to facilitate rapid and efficient analysis. This session provides an overview of these exciting advances in retinal diagnostics.

16:30 - 18:00  
**Venue: Plenary Hall 3**  
**Chair(s): Mark GILLIES, Srinivas SADDA, Yosanan YOSPAIBOON**

16:30 Epidemiology and Big Data  
*Rajiv RAMAN*

16:40 Registries: Fight Retinal Blindness  
*Mark GILLIES*

16:50 Automated Segmentation of Lesions in Neovascular AMD  
*Hyung Chan KIM*

17:00 Advances in Electrophysiology for Retinal Disorders  
*Graham HOLDER*

17:10 Advances in Autofluorescence  
*Srinivas SADDA*

17:20 Advances in Widefield Imaging  
*Yuichiro OGURA*

17:30 Where are We Going with OCT?  
*Colin TAN*

**Retina (Surgical)**

**Management of Rhegmatogenous Retinal Detachment and Complex Retinal Surgery**

09:00 - 10:30  
**Venue: Meeting Room 4**  
**Chair(s): Nishant Vijay RADKE, Warapat WONGSAWAD, Doric WONG**

09:00 Prognosticating Macula off RD  
*Shu Yen LEE*

09:11 Scleral Buckle Revisited  
*Mahesh Shanmugam PALANIVELU*

09:22 Conquering PVR Step by Step  
*Nishant Vijay RADKE*

09:33 Combined Buckle Vitrectomy  
*Doric WONG*

09:44 Step by Step Approach to Giant Retinal Tear RD  
*Warapat WONGSAWAD*

09:55 Combined Retinal Detachments in PDR  
*Michael STEWART*

10:06 Managing Complex Retinal Detachments in HIV Patients  
*Chetan RAO*

10:17 Comparing Ngenuity and Operating Microscope for Complex Vitreoretinal Surgeries: Initial Experience of 19 VR Surgeons  
*Rajiv RAMAN*

**What’s New for Macular Surgery**

Techniques in macula surgery continue to develop and more refined. This symposium will cover new techniques using artificial intelligence, 3D visualization, and robots in macular surgery. Intraoperative OCT allows a more accurate definition of tissue planes with the aim of achieving better outcomes. Management of challenging pathology including myopic maculopathy and refractory macula holes with innovative techniques including flaps and autologous transplants will be discussed.

14:30 - 16:00  
**Venue: Meeting Room 4**  
**Chair(s): Andrew CHANG, Yuichiro OGURA, Wenbin WEI**

14:30 What’s New on Management of Complicated Macular Hole Associated with Retinal Detachment  
*Chung-May YANG*

14:41 What’s New on Autologous Retinal Transplantation  
*Barbara PAROLINI*
14:52 What’s New on Intra-Operative OCT
Hiroko TERASAKI

15:03 What’s New on Robotic Macular Surgery
Marc DE SMET

15:14 What’s New on Myopic Maculopathy Surgery
Makoto INOUE

15:25 Allogeneic Lens Capsular Flap Transplantation for Refractory Macular Holes
Peiquan ZHAO

15:36 What’s New on AI for Macular Surgery
Paisan RUAMVIBOONSUK

15:47 What’s New in 3D Macular Surgery
Nuttawut RODANANT

Translational Research in Ophthalmology

Retinal Diseases: Looking into the Future
This session of new translational retinal research covers a very broad range: novel imaging with high tech cameras and smartphone apps for disease detection and monitoring; stem cell therapy; gene therapy; new frontiers in anti-VEGF therapy; monitoring co-morbidities of retinal diseases, glaucoma and blood pressure; and community screening for retinal disease. We welcome an audience with correspondingly wide interests for stimulating Q&A.

09:00 - 10:30 Venue: C Ground Meeting Room 2
Chair(s): R SMITH, Tharikarn SUJIRAKUL, Masayo TAKAHASHI

09:00 A Prototype Clinical Hyperspectral AF Camera for Early Detection of Drusen and Drusen Precursors in AMD
R SMITH

09:11 iPS Stem Cell for Retina Diseases: Where are We Going Next?
Masayo TAKAHASHI

09:22 Anti-VEGF Therapy for Myopic CNV
Tae YOKOI

09:33 The Role of Internal Limiting Membrane in Gene Therapy: Results of Studies on Nonhuman Primate
Kelvin TEO

09:44 Lessons in Development of a National DR Screening Program in Singapore
Gavin Siew-Wei TAN

09:55 Integrated Smartphone Apps for Monitoring Retinal Diseases
Victor CHONG

10:06 Continuous 24-Hour Monitoring of IOP Fluctuation, Blood Pressure, and Body Position
Ki Ho PARK

Corneal Diseases: Looking into the Future
Corneal disease is a major cause for visual loss worldwide. Knowledge of new and emerging technologies and procedures for the treatment of corneal diseases have advanced considerably. This symposium will highlight the most recent progress of several exciting new treatment modalities, including nerve growth factor for neurotrophic keratitis, blood components and their role for promoting corneal wound healing, Rho kinase inhibitors for corneal endothelial diseases, and iPS cells technology for severe ocular surface diseases. This session will also cover the future of refractive surgery and tissue engineering. Additionally, the audience will have the opportunity to understand the benefits of OCT angiography for many conditions that affect the cornea.

14:30 - 16:00 Venue: C Ground Meeting Room 2
Chair(s): Sophie DENG, Tsutomu INATOMI, Kaevalin LEKHANONT

14:30 Nerve Growth Factors in Neurotrophic Keratitis
Sophie DENG

14:45 Blood Components and Their Potential Role for Corneal Healing
Wei Li CHEN

15:00 Application of Rho Kinase Inhibitors for the Treatment of Corneal Endothelial Diseases
Naoki OKUMURA

15:15 iPS Cells Technology: Promising Treatment for Severe Ocular Surface Diseases
Kohji NISHIDA

15:30 Refractive Surgery 2030 OR Tissue Engineering
Jodhbir MEHTA

15:45 OCT Angiography for Corneal Diseases
Marcus ANG

Visual Sciences

Translational Research in Ophthalmology: Emerging Therapies
Translational research is one of the leading areas in ophthalmology. Experimental models using animal models, genetic manipulation and patient-derived cells could help in elucidating the disease mechanisms for corneal and retinal diseases. With the discoveries of new disease mechanisms and pathophysiology, emerging therapies from the benchside are on the way becoming reality to the bedside. All these make translational research an exciting area, and the updated progress will be shown in this symposium.
09:00 - 10:30  **Venue: C Ground Meeting Room 1**  
Chair(s): Passara JONGKHAJORNPONG, Tsz-Kin NG, Kohji NISHIDA

09:00  Axonal Transport of Mitochondria  
Masaru INATANI

09:12  HTRA1 Causes Photoreceptor Cell Death, Leading to AMD Phenotype  
Motokazu TSUJIKAWA

09:24  Genetically Uncover Novel Mechanisms for Ocular Surface and Adnexa Abnormalities Using a Mouse Model with Disruption of Prickle 1  
Chunqiao LIU

09:36  Micro-Electrical Stimulation to Slow Retinal/Optic Nerve Degeneration  
Chi LUU

09:48  Neurobehavioral Modulation in Glaucoma  
Kevin CHAN

10:00  Roles of Inflammation in Neural Repair After Optic Nerve Injury  
Ling-Ping CEN

10:12  Induction of Non-Integrated iPSCs from Urine Cells of Juvenile X-Linked Retinoschisis and RP Patients  
Shibo TANG

**Ocular Immunity and Inflammatory Diseases**

11:00 - 12:30  **Venue: C Ground Meeting Room 1**  
Chair(s): Paul BAIRD, Wai Kit CHU, Somsiri SUKAVATCHARIN

11:00  Neuroinflammation via HIF-1a-NLRP12/NLRC4 Inflammaseone Pathway  
Wei CHI

11:12  Roles of GH-Releasing Hormone in Experimental Autoimmune Intraocular Inflammation  
Wai Kit CHU

11:24  Imaging Findings of Spectral-Domain Anterior Segment Optical Coherence Tomography in Uveitic Eyes of Various Etiologies  
Noriyasu HASHIDA

11:36  TBC  
Jun CHEN

11:48  Cancer Immunotherapy-Related Uveitis  
Ming-Lee LIN

12:00  Role of Immune Cells in AMD and Role of Immune Cells  
Yasuo YANAGI

12:12  Comparison of Changes in Aqueous Inflammation in Low-Energy Femtosecond Laser-Assisted Cataract Surgery Versus Conventional Phacoemulsification  
Yu-Chi LIU

12:24  Laser-Assisted Cataract Surgery Versus Conventional Phacoemulsification  
Yu-Chi CHIU

12:36  Flow Cytometry of IgG4-Related Ophthalmic Disease  
Satoru KASE

**Human Retinal Organoids and Disease Modelling**

14:30 - 16:00  **Venue: C Ground Meeting Room 1**  
Chair(s): Livia CARVALHO, Calvin PANG, Tharikarn SUJIRAKUL

14:30  Transcriptome Dynamics or Treatment Paradigms for Retinal Disease Using Human Retinal Organoids  
Rossukon KAEWKHAW

14:42  RP Patient-Derived Retinal Organoids: A Frankenstein’s Disease Model  
Zi-Bing JIN

14:54  Modelling Human Retinal Development and Disease Using Retinal Organoids  
Carla MELLOUGH

15:06  Animal Models for Human Retinal Diseases  
Haoyu CHEN

15:18  Alleviation of Pathologic Features in Rodent Models of Eye Diseases  
Calvin PANG

15:30  Engineered Retinal Tissue Grafts  
Shaomin PENG

15:42  Cytopathology of Vitreoretinal Lymphoma  
Kenichi NAMBA

**Stem Cells to Translation**

16:30 - 18:00  **Venue: C Ground Meeting Room 2**  
Chair(s): Carla MELLOUGH, Wichai PRASARTHITRA, Motokazu TSUJIKAWA

16:30  Retinal Cell Therapy Using iPS cells  
Masayo TAKAHASHI

16:45  iPS Cell-Based Therapy for Corneal Diseases  
Kohji NISHIDA

17:00  Application of Mesenchymal Stem Cells for Retinal Diseases  
Tsz-Kin NG

17:15  Corneal Epithelial Stem Cell Niche: From Basic to Clinic  
Wei LI
Using Induced Pluripotent Stem Cells to Model Primary Open-Angle Glaucoma (POAG)  
*Maciej Daniszewski*

Multilineage Differentiating Stress-Enduring (Muse) Cells and Their Therapeutic Potential for Corneal Scarring Wound in Mouse and Tree Shrew  
*Jiansu Chen*

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**Cataract**

**Update on Cataract Surgery Pharmacology**

This symposium discusses major topics pertaining to pharmacological agents commonly used in cataract surgery which directly influence outcomes. Topics include preoperative ocular antisepsis, intracameral antibiotic endophthalmitis prophylaxis, TASS, intracameral mydriatics, and perioperative use of corticosteroids and their risks and side effects. In addition, the role of NSAIDs and the results of the landmark clinical trial on CME prophylaxis (PREMED) will be presented. All presentations will be followed by a panel discussion by the international faculty of global experts.

09:00 - 10:30  
**Venue:** Plenary Hall 2  
**Chair(s):** Steve Arshinoff, Tat Keong Chan, Pipat Kongsap

09:00  
Risk Factors for Steroid Response among Cataract Patients  
*David Chang*

09:12  
Intracameral Mydriatics  
*John So Min Chang*

09:24  
What’s New in Ocular Antisepsis?  
*William Myers*

09:36  
Choosing Your Intracameral Antibiotics  
*Steve Arshinoff*

09:48  
Intracameral Moxifloxacin for Endophthalmitis Prophylaxis in Cataract Surgery (Aravind Experience)  
*Haripriya ARAVIND*

10:00  
Intraocular Drug-Related Complications: Learning from Past Lessons  
*Tat Keong Chan*

10:12  
CME Prophylaxis in Cataract Surgery: The PREMED Study  
*Marie-Jose Tassignon*

10:24  
Conclusion and Discussion

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

**Advances in Corneal/Anterior Segment Imaging**

Corneal imaging has advanced rapidly over the last decade. Limited imaging techniques of the past have given way to newer methods that allow for imaging of both the entire corneal surface and the anterior segment. The symposium will discuss the clinical applications of Placido, Scheimpflug, OCT, and confocal imaging and emerging uses for biomechanics.

09:00 - 10:30  
**Venue:** Ballroom  
**Chair(s):** Michael Belin, Chareenun Chirapapaisan, Dipika Patel

09:00  
Computerized Videokeratocope (Placido) is Still the Gold Standard for Screening Patients  
*Julie Schallhorn*

09:12  
The Gold Standard was Abandoned 80 Years Ago: So, Should Placido Imaging  
*Michael Belin*

09:24  
Anterior Segment OCT: Clinical Applications and Differences between Machines  
*Chareenun Chirapapaisan*

09:36  
In Vivo Confocal Microscopy of the Inflamed Anterior Segment: Clinical Applications  
*Dipika Patel*

09:48  
Tomographic Classification of Fuchs Dystrophy  
*Sanjay Patel*

10:00  
Bio-Mechanics: Convince Me  
*Akilesh Gokul*

10:12  
Panel Discussion

**Orbital and Oculoplastic Surgery**

**APOTS Trauma Course: Concepts in Ophthalmic Trauma & Intraocular Complications Mode**

09:00-10:30  
**Venue:** Plenary Hall 1  
**Chair(s):** Rajvardhan Azad, S Natarajan, Hua Yan  
**Moderator(s):** Annette Hoskin, Sunil Moreker

09:00  
Global Assessment of the Ophthalmic Trauma Pt (Incl OTS, POTS & More)  
*Syeed Kadir*
09:08 Sutures & Needles in Ocular and Adnexal Trauma (Incl. Dos & Don'ts)
Yunia IRAWATI

09:16 Diagnostic Investigations in the Trauma Pt: Ultrasound, UBM, OCT, CT & MRI (When to Do What & How to Interpret?)
Eli PRADHAN

09:24 The Good, Bad & Ugly (Examples of Ideal, Suboptimal and Poor Outcomes)
Hua YAN

09:32 Life Lessons Learnt in the Management of Ophthalamic Trauma and Need for Asia-Pacific Collaboration in Ophthalamic Trauma
Ashok GROVER

09:40 Managing Tissue Loss in Trauma: Corneal and Scleral Patch Graft
Kendrick SHIH

09:48 How to Decide: Infection vs Inflammation After Trauma
Chetan RAO

09:56 Managing Traumatic Cycloidalysis
Lingam VIJAYA

10:04 Nuances of Managing Vegetative Intraocular Foreign Body
Hussain KHAQAN

10:12 Managing Suprachoroidal Heam in Trauma
Tengku KAMALDEN

10:20 Panel Discussion
Maneesh BAPAYE, Lingam GOPAL, Manoj KHATRI, Mohan RAJAN, Moneesh SAXENA

How I Manage Patients with Tearing
This session aims to present new concepts in the management of patients with lacrimal problems such as tearing. Techniques such as external DCR, endonasal DCR, and endoscopic transcanalicular DCR will be covered. The anatomy and physiology of the lacrimal system as well as the contemporary management of tearing, different lacrimal surgeries and different lacrimal stents will be discussed in detail.

09:00 - 10:30 Venue: Lotus Room
Chair(s): Reynaldo JAVATE, Damrong WIWATWONGWANA, Kyung In WOO

09:00 Anatomy and Physiology of the Lacrimal System
Suk-Woo YANG

09:10 Lacrimal Stents and Intubation Systems
Reynaldo JAVATE

09:20 Non-Endoscopic Endonasal DCR in My Practice
Damrong WIWATWONGWANA

09:30 Management of Acute Dacryocystitis
Hunter YUEN

09:40 Endonasal DCR Using Radiosurgery
Nikolay KRAKHOVETSKIY

09:50 Management of Proximal Lacrimal Obstructions
Ashok GROVER

10:00 How to Maximize Result External DCR
Sombat TANABOONYAWAT

10:10 Questions and Answers

Pediatric Ophthalmology & Strabismus

What’s New in Pediatric Ophthalmology and Strabismus

09:00 - 10:30 Venue: Meeting Room 2
Chair(s): Craig DONALDSON, Kanwal ‘Ken’ NISCHAL, Nutsuchar WANGTIRAUMNUAY

09:00 Optic Neuritis in Children
Prem SUBRAMANIAN

09:12 Integrated Intraoperative OCT for Pediatric Ocular Surgery
Kanwal ‘Ken’ NISCHAL

09:24 In 2019 What are the Newest Techniques for III’d N Palsy, Duane Syndrome I or Sixth Nerve Palsy
Craig DONALDSON

09:36 Myopia Control Update
Andrzej GRZYBOWSKI

09:48 Refractive Surgery for Children
William ASTLE

10:00 Use of a Mobile Application for Home Strabismus Screening and Tele-Ophthalmology
Warachaya PHANPHRUK

10:12 Assessing Abnormal Head Posture: A New Paradigm
Lionel KOWAL

Prevention of Blindness

Epidemiology in Prevention of Blindness
Audiences will learn from this session the most recent updates, from specific disease level to more comprehensive system management, via Prevention of Blindness epidemiological viewpoint from top internationally experienced instructors, researchers and policymakers. To shape the future of eye care in our diverse Asia Pacific, for the benefit not limited to
individual patients but also facilitate the systematic improvement of service delivery projects, researches and policymaking in local, national and international scale presently and in the future.

09:00 - 10:30  **Venue: Boardroom 4**  
*Chair(s): Ava HOSSAIN, Warapat WONGSAWAD, Ningli WANG*

09:00  Real World Management & Outcome for PCV, Fight Retinal Blindness Cohort  
*Kelvin TEO*

09:12  CSC and CSR in China  
*Ningli WANG*

09:24  A Nationwide Survey of Pseudoexfoliation and True Exfoliation Syndromes in Thailand  
*Chaiwat TEEKHASAENEE*

09:36  Diabetic Retinopathy  
*Ecosse LAMOUREUX*

09:48  Myopia  
*Seang Mei SAW*

10:00  High-Quality Research — Data Analysis and Publication  
*Mingguang HE*

10:12  Prevalence of Visual Impairment in Older Adults in Rural China in 2014 and Comparison with 2006 China Nine-Province Survey  
*Jialiang ZHAO*

**Refractive Surgery**

Challenging Cases and Complications: How To Solve Them

09:00 - 10:30  **Venue: Meeting Room 1**  
*Chair(s): Tommy CHAN, Jodhbir MEHTA, Tarinee SANGIAMPOPNAPANIT*

09:00  LASIK Complications and Management  
*Minoru TOMITA*

09:12  Managing Intraoperative Femto Flap Complications  
*Mohamad ROSMAN*

09:24  Management of SMILE Ectasia with Tissue Addition Technique and Pocket C3R  
*Sheetal BRAR*

09:36  Haze After Presbyopic in Lay  
*Jodhbir MEHTA*

09:48  Infections After SMILE: What, When and Why?  
*Vilavun PUANGSRICHARERN*

10:00  Managing the Dislocated Multifocal/Toric IOL  
*George BEIKO*

10:12  Management of Infection After ICRs Implantation  
*Usanee REINPRAYOON*

**Visual Sciences**

**Gene Therapy**

09:00 - 10:30  **Venue: C Ground Meeting Room 2**  
*Chair(s): Chi LUU, Duangnate ROJANAPORN, Xiao YANG*

09:00  Gene Therapy for Glaucoma  
*Mark HASSALL*

09:15  Gene Therapy to the Corneal Endothelium  
*Thomas FUCHSLUGER*

09:30  Current Developments in Gene Therapy for Retinal Degeneration  
*Livia CARVALHO*

09:45  Retained Plasticity at the Visual Cortex and Recovery of Vision in Blind Adult Mice with Retinal Dystrophy Following Gene Therapy  
*Koji NISHIGUCHI*

10:00  Uveal Melanoma  
*Bin LI*

10:15  Ocular Gene Therapy and Genome Editing  
*Guei-Sheung LIU*
WET LAB COURSES

APGS-MIGS Interest Group Wetlab Course: XEN Gel Implant
The use of minimally invasive glaucoma surgery (MIGS) is growing in the Asia-Pacific region, with the influx of many new devices. The Asia Pacific Glaucoma Society (APGS)-MIGS Interest Group was established to lead MIGS education and to provide guidance for surgeons on the use of MIGS devices in the Asia-Pacific region. The inaugural APGS-MIGS Interest Group wetlabs cater to beginner surgeons who have no or minimal exposure to MIGS. Experts will practical tips and tricks for implanting the devices, and hands-on experiences with the devices will be provided.

09:00 - 11:00 Venue: Wetlab Room 1
09:00 Introduction, Patient Selection, and XEN Data
  Michael COOTE
09:15 Pre-Operative Conjunctival Preparation and Surgical Technique
  Paul HEALEY
09:30 Intra-Operative Tips and Pearls
  Prin ROJANAPONGPUN
09:45 Post-Operative Management
  Leonard YIP
10:00 Hands-On Practice
  Seng Kheong FANG, Paul HEALEY, Michael COOTE, Jui-ling LIU, Jayant VENKATRAMANI,
  Prin ROJANAPONGPUN, Chelvin SNG, Visanee TANTISEVI, Leonard YIP

APGS-MIGS Interest Group Wetlab Course: iStent Wetlab
The use of minimally invasive glaucoma surgery (MIGS) is growing in the Asia-Pacific region, with the influx of many new devices. The Asia Pacific Glaucoma Society (APGS)-MIGS Interest Group was established to lead MIGS education and to provide guidance for surgeons on the use of MIGS devices in the Asia-Pacific region. The inaugural APGS-MIGS Interest Group wetlabs cater to beginner surgeons who have no or minimal exposure to MIGS. Experts will practical tips and tricks for implanting the devices, and hands-on experiences with the devices will be provided.

11:30 - 13:30 Venue: Wetlab Room 1
11:30 Introduction, Patient Selection and iStent Data
  Robert ANG
11:45 iStent Trabecular Micro-Bypass Stent
  George BEIKO
12:00 iStent Inject Surgical Technique
  Nathan KERR
12:15 Stent Inject – Tips and Pearls
  Don PEK
12:30 Hands-On Practice
  Robert ANG, George BEIKO, Poemen CHAN, Rahat HUSAIN, Md.Nazrul ISLAM, Nathan KERR, Don PEK, Shamira PERERA, Chelvin SNG

APGS-MIGS Interest Group Wetlab Course: Hydrus Microstent
The use of minimally invasive glaucoma surgery (MIGS) is growing in the Asia-Pacific region, with the influx of many new devices. The Asia Pacific Glaucoma Society (APGS)-MIGS Interest Group was established to lead MIGS education and to provide guidance for surgeons on the use of MIGS devices in the Asia-Pacific region. The inaugural APGS-MIGS Interest Group wetlabs cater to beginner surgeons who have no or minimal exposure to MIGS. Experts will practical tips and tricks for implanting the devices, and hands-on experiences with the devices will be provided.

14:00 - 16:00 Venue: Wetlab Room 1
14:00 Introduction, Patient Selection and Hydrus Data
  Rahat HUSAIN
14:15 Intra-operative Gonioscopy and Implantation Technique
  Robert ANG
14:30 Management of Intra-Operative and Post-Operative Complications
  Shamira PERERA
14:45 Optimizing Outcomes and Surgical Pearls
  Paul HEALEY
15:00 Hands-On Practice
  Robert ANG, Paul HEALEY, Rahat HUSAIN, Nathan KERR, Shamira PERERA, Chelvin SNG
INSTRUCTION COURSES

MAR 06, 2019 (WED)

Cornea, External Eye Diseases & Eye Bank

Pearls and Pitfalls in DMEK surgery

09:00 - 10:30  Venue: Boardroom 2
Chair(s): Kaevalin LEKHANONT

09:00  Lecture 1  Kaevalin LEKHANONT

09:05  Lecture 2  Alain SAAD

09:15  Lecture 3  Francis PRICE JR

09:40  Lecture 4  Marianne PRICE

10:00  Lecture 5  Marcus ANG

Orbital and Oculoplastic Surgery

Lessons Learned in East Asian Eyelid Surgery

11:00 - 12:30  Venue: Boardroom 2
Chair(s): Audrey LOOI

11:00  Understanding Structural Differences in the East Asian Eyelid  Gillian TEH

11:15  True Lifting in Ptosis Surgery  Sunny SHÉN

11:30  Understanding the Pitfalls in East Asian Upper Blepharoplasty  Audrey LOOI

11:50  Lower Blepharoplasty — Do it Right and Fix it Right  Chaiteck CHOO

12:05  Filler Augmentation in Lower Blepharoplasty  Kasturi BHATTACHARJEE

MAR 07, 2019 (THU)

Cataract

Conquering Capsule Complications — My Best Teaching Videos

09:00 - 10:30  Venue: C Ground Meeting Room 2
Chair(s): David CHANG

09:00  Conquering Capsule Complications  David CHANG

Cornea, External Eye Diseases & Eye Bank

Advances in Endothelial Keratoplasty

11:00 - 12:30  Venue: Boardroom 2
Chair(s): Marcus ANG

11:00  Introduction  Marcus ANG

11:15  DMEK Made Easy  Martin DIRISAMER

11:30  Descemetorhexis without EK or DWEK as a Therapy  Gregory MOLONEY

11:45  DMT and Endothelial Cell Therapy  Jodhbir MEHTA

12:00  Advanced DSAEK and Femto EK  Jorge ALÍO DEL BARRIO
Glaucoma

Micro-Invasive Glaucoma Surgery
16:30 - 18:00 Venue: Boardroom 3
Chair(s): Chelvin SNG

16:30 Overview & Trabecular Bypass Devices
Chelvin SNG

17:10 Subconjunctival Devices & Suprachoroidal Devices
Keith Barton

Ocular Oncology & Pathology

Retinoblastoma 2019 — They Live and See
09:00 - 10:30 Venue: Boardroom 2
Chair(s): Santosh Honavar

09:00 Eye and Vision Salvage Therapy in Retinoblastoma
Santosh Honavar

09:15 Management of Advanced Retinoblastoma
Santosh Honavar

09:30 Diagnosis of Retinoblastoma and Differential Diagnosis
Fairooz Puthiyapurayil Manjandaiva

09:40 Classification of Retinoblastoma
Fairooz Puthiyapurayil Manjandaiva

09:50 Histopathology of Retinoblastoma — Standardized Reporting and Prognostic Factors
Kaustubh Mulay

Orbital and Oculoplastic Surgery

Orbital Venolymphatic Malformations: Toolbox for Management
14:30 - 16:00 Venue: Boardroom 2
Chair(s): Daniel Rootman

14:30 Venolymphatic Malformations & Panel Case Discussion
Daniel Rootman

14:55 Venous Malformations & Panel Case Discussion
Weerawan Chokthaweesak

15:10 Overview Vascular Malformation Classification & Panel Case Discussion
Bunyada Putthirangsiwong

15:25 Lymphatic Malformations & Panel Case Discussion
Pornchai Mahisavariya

Cataract

Mastering Phaco Nightmares and Worst-Case Scenarios — A Video-Based Course
09:00 - 10:30 Venue: Boardroom 2
Chair(s): Amar Agarwal

09:00 Single Pass 4 Throw Pupilloplasty and Phaco Nightmares
Amar Agarwal

09:30 Glued IOL and IOL Scaffold
Athiya Agarwal

09:40 Challenging Phaco Cases
David Chang

10:10 Subluxated Cataracts
Soon-Phaik Chee

Cornea, External Eye Diseases & Eye Bank

IEEI Surgical Video Symposium: Innovative Surgical Approaches to Challenging Cases
11:00 - 12:30 Venue: Boardroom 2
Chair(s): Maria Cortina

11:00 Cornea
Maria Cortina

11:15 Oculoplastics
Pete Setabutr

11:30 Retina
William Mieler

11:45 Cornea
Elmer Tu

12:00 Glaucoma
Thasarat Vajarant
Comprehensive Guide to Managing Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians

16:30 - 18:00  Venue: Boardroom 3  
Chair(s): Kendrick SHIH

16:30  Diagnosis and Classification: Prognostic Implications  
Kendrick SHIH

16:40  Management of Acute Ocular Surface Inflammation: Paradigm Shift Towards Early Amniotic Membrane Transplantation  
Alex Lap Ki NG

16:55  Ocular Surface Reconstruction — Mucous Membrane Grafting  
Ka Wai KAM

17:15  Use of Scleral Contact Lenses for Visual and Ocular Surface  
Vanissa CHOW

17:30  Cataract Management in Cicatrizting Conjunctivitis  
Hon Shing ONG

Ocular Imaging

Advanced Interpretation of OCT and OCTA for General Ophthalmologists — Front to the Back of the Eye

16:30 - 18:00  Venue: Boardroom 2  
Chair(s): Anna TAN

16:30  Introduction to OCT, OCTA and an Approach to OCTA Interpretation  
Anna TAN

16:40  Common OCT Misdiagnosis  
Anna TAN

16:50  Challenging OCTA Cases in the Retina and Choroid  
Adnan TUFAIL

17:05  Pearls and Pitfalls of OCT and OCTA Imaging of the Optic Nerve  
Leopold SCHMETTERER

17:20  Advanced Interpretation of Anterior Segment OCT and OCTA  
Marcus ANG

17:35  OCTA of Orbital Diseases  
Yvonne CHUNG

17:50  Case Discussions  
Dolz-Marco ROSA

Orbital and Oculoplastic Surgery

Orbit, Oculoplastic Surgery, and Ophthalmic Oncology — What’s New

16:30 - 18:00  Venue: C Ground Meeting Room 1  
Chair(s): Gangadhara SUNDAR

16:30  Eyelid Retraction — Non Surgical Management  
Kyung In WOO

16:44  Cone Beam CT in Lacrimal Drainage Disorders  
Toru SUZUKI

16:58  Challenge of the Cryptophthalmic Socket  
Dongmei LI

17:12  What’s New in Ophthalmic Oncology  
Santosh HONAVAR

17:26  What’s New in Orbital Fractures  
Gangadhara SUNDAR

Retina (Surgical)

Management of RRD in 2019

11:00 - 12:30  Venue: Boardroom 3  
Chair(s): Pear PONGSACHAREONNONT

11:00  Combined Lens Removal with Vitrectomy in RRD  
Pear PONGSACHAREONNONT

11:15  Classification Schemes and Prognosis of RRD  
Nicola GAN

11:30  Choice of RRD Treatment in 2019  
Sherman VALERO

11:45  RRD Surgery in Complicated Situation  
Srinivas JOSHI

12:00  Latest Advanced in Vitrectomy 2019  
Wai-Ching LAM
Cataract

IOL Implantation in the Absence of Capsular Support
11:00 - 12:30  Venue: Boardroom 2
Chair(s): Mohan RAJAN
11:00  PCR Ten Commandments
       Mohan RAJAN
11:15  Glued IOL
       Sujatha MOHAN
11:30  Dropped IOL
       Manoj KHATRI
11:45  Nucleus Drop Management
       Nivean MADHIVANAN

Biometry — The Way Forward
11:00 - 12:30  Venue: Meeting Room 3
Chair(s): N.v.Arulmozhi Varman VARMAN
11:00  Why Optical Biometer, Why Topography
       N.v.Arulmozhi Varman VARMAN
11:24  Ultrasound Biometer — What We Measure and What We Miss
       Atheek SHAIK
11:36  Modern Formular for IOL Power Calculation
       Ramesh DORAIRAJAN
11:48  Keratometry — What We Measure and What We Miss
       Jeyanthan SOUNDARAPANDIAN

Ocular Oncology & Pathology

The Killer ‘Pearl’ that Masquerade — Retinoblastoma
09:00 - 10:30  Venue: C Ground Meeting Room 1
Chair(s): Manabjyoti BARMAN
09:00  Retinoblastoma — Diagnostic Dilemma
       Manabjyoti BARMAN
09:12  Advances on the Local Treatment of Retinoblastoma
       Vikas KHETAN
09:24  Systemic Treatment of Retinoblastoma and Follow Up
       Santosh HONAVAR
09:36  Unusual Presentations of Retinoblastoma
       Pukhraj RISHI
09:48  Enucleation and Orbital Management in Retinoblastoma
       Kasturi BHATTACHARJEE

Orbital and Oculoplastic Surgery

Expanding Horizons in Oculofacial Aesthetic Surgery: Frontiers to Maximise Pearls and Minimise Perils
11:00 - 12:30  Venue: C Ground Meeting Room 1
Chair(s): Kasturi BHATTACHARJEE
11:00  Anatomical Paradigms: What is the Current Understanding in Facial Aging and Aesthetic Surgery
       Akshay NAIR
11:15  Surgical Nuances of Browlift and Upper Eyelid Blepharoplasty
       Yip CHEE CHEW
11:30  Revision Upper Lid Blepharoplasty — ‘Revise or Correct, in Managing Unrealistic Patient Expectations’
       Hunter YUEN

Cornea, External Eye Diseases & Eye Bank

Recent Advances in the Diagnosis and Management of Conjunctival Tumors
11:00 - 12:30  Venue: Meeting Room 4
Chair(s): Santosh HONAVAR
11:00  An Overview of Conjunctival Tumors
       Santosh HONAVAR
11:21  Medical Management of Conjunctival Tumors
       Santosh HONAVAR
11:42  Surgical Management of Conjunctival Tumors
       Fairooz Puthiyapurayil MANJANDAVIDA
11:54  Interactive cases
       Fairooz Puthiyapurayil MANJANDAVIDA
12:06  Pathology of Conjunctival Tumors
       Kaustubh MULAY
11:45  Lower Lid Blepharoplasty with Lateral Canthopexy
       Kasturi BHATTCHARJEE

12:05  Pearls in Fat Reposition with Midface Lift Surgery
       Shu-Lang LIAO

Pediatric Ophthalmology & Strabismus

Treatment of Retinopathy of Prematurity: Diagnosis and Management

09:00 - 10:30  Venue: Meeting Room 4
               Chair(s): Anna ELLS

09:00  Instructional Course
       Anna ELLS

09:20  Instructional Course
       Atchara AMPHONPHRUET

09:40  Instructional Course
       Wai-Ching LAM

10:00  Instructional Course
       Wei-Chi WU

Overview of Innovations in Pediatric Cataract Surgery

11:00 - 12:30  Venue: Meeting Room 2
               Chair(s): Harsha BHATTCHARJEE

11:00  Newer Approaches to Management of Neonatal Cataract
       Harsha BHATTCHARJEE

11:15  Role of Intra-operative OCT in Pediatric Cataract Surgery
       Kanwal ‘Ken’ NISCHAL

11:30  Optic Capture and Femtosecond Laser in Pediatric Surgeries
       Abhay VASAVADA

11:45  Advances in Pediatric IOL Power Calculation
       Phanthipha WONGWAI

12:00  Updates in Neuro-Developmental Assessment Following Pediatric Cataract Surgery
       Nilutparna DEORI
**FREE PAPERS**

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

**Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 1**

11:00 - 12:30  **Venue: Boardroom 3**  
**Chair(s): Francis PRICE JR, Wimolwan TANGOAGASIT**

11:00  The Outcomes of Corneal Cross-Linking for Keratoconus from Routine Clinical Practice across Australia and New Zealand: Results from the Save Sight Keratoconus Registry  
*Stephanie WATSON*

11:08  Can We Quantify Corneal Stiffening Post Accelerated Corneal Cross Linking (CXL)?  
*Himali KAPANIA*

11:16  Clinical Outcomes of OCT Guided Intra Corneal Ring Segment Implantation and Corneal Collagen Cross Linking Surgery  
*Minoru TOMITA*

11:24  Topo-Guided Removal of Epithelium in Keratoconus (TREK) and Accelerated Cross Linking — Novel Tissue Sparing Customized Treatment of Keratoconic Eyes  
*Pavitra PATEL*

11:32  Femtosecond Laser Assisted Anterior Lamellar Keratoplasty (FALK) in Anterior Corneal Opacities  
*Ruchita MANAKTALA*

11:40  Rejection after Deep Anterior Lamellar Keratoplasty (DALK) — Nothing is Lost!  
*Rishi SWARUP*

*Anand PASARI*

11:56  Outcome of Therapeutic Penetrating Keratoplasty in Tertiary Eye Care Center, Thailand  
*Rungravee SAJJANUKOOL*

12:04  Ocular Surface Immune Trafficking and Eye Rubbing in Keratoconus, and Its Impact on Treatment Outcomes  
*Pooja KHAMAR*

**Ocular Oncology & Pathology**

**Rapid Fire Ocular Oncology and Pathology Update Session**

09:00 - 10:30  **Venue: Boardroom 3**  
**Chair(s): Martine JAGER, Kaustubh MULAY, Chanet SUVARNAMANI**

09:00  A 10-Year Retrospective Analysis of Clinical Profile and Survival Rates in Retinoblastoma from North Eastern India  
*Pushkar DHIR*

09:06  Conjunctival Melanoma in Asian Indian Patients: A Study of 40 Cases  
*Varshitha VASANTAPURAM*

09:12  Mutational Screening Of Germline RB1 Gene in Vietnamese Patients with Retinoblastoma  
*Chau PHAM*

09:18  Characteristics, Treatments, and Outcomes of Uveal Melanoma in Thailand: Analysis of 46 Consecutive Patients from a Tertiary Referral Center  
*Parin HUNTRAKOOL*

09:24  Characteristics, Treatments, and Outcomes of Retinoblastoma in Thailand: Ten Years Analysis of 92 Eyes of 61 Consecutive Patients from a Tertiary Referral Center.  
*Atasit ROJANASAKUL*

09:30  Is Neoadjuvant Chemotherapy (NAC) with Deferred Enucleation Safe in Patients with Advanced Retinoblastoma (Rb) Unsafe or Unwilling for Primary Enucleation?  
*Ankit TOMAR*

09:36  Clinical Profile of Retinoblastoma in a Tertiary Public Hospital of Bangladesh  
*Md.Ashiqur Rahman AKANDA*
09:42 Management of Giant Ocular Surface Squamous Neoplasia: Our Experience
Rajendra MAURYA - IMDIA

09:48 Characteristics and Treatment Outcomes of Patients with Primary Ocular Adnexal Lymphoma: A Multicenter Study in Tertiary Hospitals
Sirima TANGCHITTAM

09:54 Transpupillary Thermotherapy in Circumscribed Choroidal Hemangioma
Harshit VAIDYA

10:00 Endocrine, Mucin-Producing, Sweat Gland Carcinoma: Clinicopathological and Immunohistochemical Features
Kaustubh MULAY

10:06 Ruthenium-106 Plaque Brachytherapy for Intraocular Tumors in Thailand: The First Report from South East Asia
Thitiporn THONGBORISUTH

10:12 Prognostic Significance of Loss of NEMO Protein in Uveal Melanoma
Mithalesh SINGH

10:18 ATM as a DNA Damage Response Protein in Uveal Melanoma: Association with Clinicopathological Factors and Prognostic Outcome
Jayanti JHA

11:12 Influence of Pupil Dilation on Predicted Postoperative Refraction and Recommended IOL Power Calculated by Barrett Universal II IOL Power Calculation Formula
Takeshi TESHIGAWARA

11:18 Incidence and Outcomes of Toric IOL Repositioning Surgery
Haripriya ARAVIND

11:24 Comparison of Intraocular Lens Calculation Formulas for Phacoemulsiﬁcation after Corneal Refractive Surgery at a Single Eye Center in the Philippines
Cris Martin JACOBA

11:30 Clinical Outcomes with an Extended Range of Vision Intraocular Lens with and without Toxicity. Australian Results of the CRESCENDO Multicentre Study
Frank HOWES

11:36 Evaluating the Role of Chamber Depth and Lens Thickness on the Choice of Intraocular Lens Calculation
Khanh TRAN

11:42 Refractive Outcome after Clear Lens Extraction with Posterior Chamber Intraocular Lens (PCIOL) Implantation for Anterior Lenticous in a Patient of Alport Syndrome
Shifat TOUFIQUE

11:48 Ray-Tracing Biometry Formula in Intraocular Lens Calculation in Post-LASIK Eyes Using a Double Scheimpﬂug Interferometry Biometer
Daphne HAN

11:54 How Good is American Society of Cataract and Refractive Surgery (ASCRS) Online Calculator in Predicting Cataract Surgery Outcomes in Patients Post Lasik and Post Radial Keratotomy?
Sudhir RACHAPALLE REDDI

12:00 Visual Quality and Stereoacuity after Binocular Implantation of Extended Range of Vision Intraocular Lens
Jeewan TITIYAL

12:06 Associated Factors Influencing the Full-Distance Visual Acuity after Refractive Rotationally Asymmetric Multifocal Intraocular Lens Implantation
Yong WANG

12:12 Alignment of Toric IOL via Automated Femtosecond Laser-Assisted Capsular Marks
Detlev BREYER

12:18 Vector Analysis of Anticipated Residual Astigmatism and Actual Residual Astigmatism in Toric IOL Implantation Using Callisto-Eye™
Kukuh PRASETYO
Glaucoma

Rapid Fire Glaucoma Update Session 1

14:30 - 16:00  Venue: C Ground Meeting Room 2
Chair(s): Da-Wen LU, Sang-Woo PARK, Pitipong SURAMETHAKUL

14:30  Four- and Five-Year Results of the MicroShunt in Patients with Primary Open-Angle Glaucoma
Juan F. BATLLE

14:36  Clinical Results of Ultrasound Cyclo Plasty Using High Intensity Focused Ultrasound (HIFU) to Treat Refractory Glaucoma
Jian GE

14:42  Comparison of Omidenepeg Isopropyl 0.002% with Latanoprost 0.005% in Primary Open-Angle Glaucoma and Ocular Hypertension: The Phase III AYAME Study
Makoto AIHARA

14:48  Interim Results of a Prospective Feasibility Study to Evaluate Safety and Efficacy of Ultrasound Cyclo Plasty Using High Intensity Focused Ultrasound (HIFU) in Refractory Open Angle Glaucoma Patients
Reena CHOUDHRY

14:54  5-Year Outcomes of a Prospective Study of Two Trabecular Micro-Bypass Stents Versus Prostaglandin in Newly Diagnosed Open-Angle Glaucoma
Florian KRETZ

15:00  Continuous 24-Hour Intraocular Pressure Profile in Progressive and Non-Progressive Primary Open Angle Glaucoma Patients
Wei Loon NG

15:06  Microvascular Changes in Peripapillary and Optic Nerve Head Tissues after Trabeculectomy in Primary Open-Angle Glaucoma
Ji-Ah KIM

15:12  Prospective Evaluation of a Schlemm’s Canal Microstent for Treatment of Primary Angle Closure Glaucoma in Combination with Phacoemulsification
Robert ANG

15:18  Analysis on the Trend of the Development of Acute Primary Angle Closure
Sang-Woo PARK

15:24  Primary Congenital Glaucoma: Baseline Features and Short Term Surgical Outcome
Rakshya PANTA SITOULA

15:30  MIGS (Microinvasive Glaucoma Surgery) with Second-Generation Trabecular Micro-bypass Stents Combined with Topical Prostaglandin in Eyes with OAG on 2 Preoperative Medications: 42-month Outcomes
Robert ANG

15:36  Induced Ocular Hypertension in Rats: Anterior Chamber Injection of 0.5% Carbomer Suspension
Jingkang ZHAO

15:42  The SPECTRUM Registry: 12- and 24-Months Results from a Global Real-World Study of 2400 Glaucoma Eyes Treated with Micro Invasive Glaucoma Surgery Using the Hydrus Microstent
Rahat HUSAIN

15:48  Trabecular Peeling Technique for Ab-Interno Trabeculectomy
Ankush MAHAJAN

15:54  Surgical Outcomes of Trabecular Micro-Bypass Stent and Gonioscopy Assisted Transluminal Trabeculotomy Through Retrospective Analysis
Helen CHUNG

Pediatric Ophthalmology, Strabismus & Prevention of Blindness

Rapid Fire Pediatric Ophthalmology, Strabismus, and Prevention of Blindness Update Session

16:30 - 18:00  Venue: Boardroom 2
Chair(s): Subhash DADEYA, Justin MORA, Suntaree THITIWICHIELERT

16:30  Strabismus and Depression: a Systematic Review and Meta-analysis
Rachel Wing Yan TSUI

16:36  Refractive Outcome in Preterm Neonate with Severe Retinopathy of Prematurity (ROP) following Treatment with Retinal Laser Photocoagulation and Intravitreal Ranibizumab Injection Compared to Usage of Only Laser Photocoagulation
Rudra GHOSH

16:42  A Novel Algorithm to Predict the Development of Retinopathy of Prematurity (ROP) in Hong Kong
Connie LAI

16:48  The Current Picture of Cerebral Visual Impairment in New Zealand
Samantha SIMKIN
16:54 Single Sweep Retinoscopy (SSR) — Pre-School Eye Screening Made Easy
Lakshmi SREEDHARAMURTHY

17:00 Computed Tomography for Guidance in the Diagnosis and Surgical Correction of Recurrent Dacryocystitis In Children
Chengyue ZHANG

17:06 Optic Nerve Head Morphology Changes over Time in Premature Infants
Samantha SIMKIN

17:12 Retrospective Study of Trends in Contact Lens Prescribing in Pediatric Aphakes
Thandalam SURENDRAN

17:18 Synergistic Divergence with Vertical Vectors, Absent Kidney and Cryptorchidism: A Novel Congenital Cranial Dysinnervation Disorder (CCDD) Betraying Footprints of Atavistic Dorsal Light Reflex
Divya KISHORE

17:24 Comparison of Myopia Progression in New and Established Myopia Control Treatment (MiSight©) Groups
Cheryl NGO

17:30 Effectiveness of Using a Nonabsorbable Suture for Tendon Lengthening in Brown Syndrome
Shilpa RAO

17:36 Clinical Research on the Common Pediatric Eye Diseases Presenting with Inner Canthus Mass
Wen LIU

17:42 Ocular Disorders in Children with Hearing Impairment and Speech Disability
Watanee JENCHITR

17:48 Burden of Blindness due to Glaucoma in a Teaching Hospital in Southern India
Elfride SANJANA

17:54 Analysis of Prescription Glasses in the First Grade Thai Students
Nutsuchar WANGTIRAUMNUAY

Cataract & Refractive Surgery

Rapid Fire Cataract and Refractive Surgery Update Session

14:30 - 16:00 Venue: Boardroom 3
Chair(s): Colin CHAN, Bharkbhum KHAMBHIPHANT

14:30 A Prospective Comparative Study on Endothelial Cell Loss and Morphology after Femtosecond Laser Assisted Cataract Surgery and Phacoemulsification Surgery
Aditya KELKAR

14:38 Comparison and Evaluation of Biometers Using Swept-Source Optical Coherence Tomography Compared to Partial-Coherence Interferometry and Optical Low-Coherence Interferometry
Xueting LI

14:46 A Comparative Study to Assess Three Biometric Measurements in Different Axial Length
Xueting LI

14:54 Comparison of Different Methods for Photopic and Scotopic Pupil Diameter Measurement and Clinical Analysis on the Pupil Diameter Changes of Cataract Patients
Yong WANG

15:02 Study of Demographic Effects on Intraocular Lens Attributes Preference
Shu-Wen CHANG

15:10 To Report the Outcomes of Cionni-Modified Capsule Tension Ring (CTR) Implantation in Eyes with Subluxated Lenses
Mohsin KHAN

15:18 Retreatment in Laser in Situ Keratomileusis (LASIK): Flap Lift or Surface Ablation?
Colin CHAN

15:26 Scleral Wound Healing Profiles and Stability following Laser Scleral Microporation for Presbyopia Correction
Yu-Chi LIU

15:34 What Causes Reduction in Biomechanical Strength-Flap/Cap/Laser?
Pavitra PATEL
15:42 Biomechanical Changes and Improved Visual Performance after a New Presbyopia Therapy: Laser Scleral Microporation
Sunil SHAH

15:50 Punchorhexis
Mohan RAJAN

Retina (Medical & Surgical)

Rapid Fire Surgical and Medical Retina Update Session
09:00 - 10:30 Venue: Boardroom 3
Chair(s): R.V. Paul CHAN, Chakrapong NAMATRA, Xinyuan ZHANG

09:00 Double Nonpeeling of Foveolar Posterior Hyaloid and Internal Limiting Membrane in Early Stage 2 Idiopathic Macular Hole Surgery
Tzyy-Chang HO

09:06 Visual Outcome and Complications of Diabetic Vitrectomy: Does It Vary with Preoperative Interventions?
Dipak NAG

09:12 Anatomical and Visual Outcome of 27 Gauge Transconjunctival Pars Plan Vitrectomy without Scleral Buckling in Primary Rhegmatogenous Retinal Detachment (RRD)
Ramya APPANRAJ

09:18 Cystoid Macular Edema after Repair of Primary Retinal Detachment: Incidence, Predictors and Outcomes
Yodpong CHANTARASON

09:24 An Innovative Versatile Cannula for Vitreoretinal Surgery
Maneesh BAPAYE

09:30 Clinical Presentations and Comparative Outcomes of Primary Versus Deferred Intraocular Lens Explantation in Delayed-Onset Endophthalmitis
Vivek DAVE

09:36 Chronic Retinal Injury Induced by White Light-Emitting Diodes (LEDs) Light with Different Correlated Color Temperatures and Micro-Array Analysis of Genome-Wide Expression Pattern in Mice
Chen XIE

09:42 Result of Inverted ILM Peeling in Treatment for Large Macular Hole (MH) in Vietnam National Institute of Ophthalmology (VNIO)
Hung BUI

09:48 The Stepwise Non-Sclerotomy Approach to Prevent Inadvertent Perfusion in Eyes with Extensive Choroidal Detachment and Suprachoroidal Fluid during 25-Gauge Pars Plana Vitrectomy
Zhaotian ZHANG

09:54 Endoscopic Vitrectomy in Endophthalmitis: Initial Experience of 33 Cases at a Tertiary Eye Care Center
Vivek DAVE

10:00 Mitochondrial Morphology Change and the Expression of Mitochondrial Fission/Fusion Genes in RPE Cells under Oxidative Stress
Xu LIU

10:06 The Protection of Mitochondria-Targeted Antioxidant Peptide on ARPE-19 Cells under Oxidative Damage
Yun XU

10:12 The Association between Central Serous Chorioretinopathy and Risk of Depression: A Population-Based Cohort Study
Yu-Yen CHEN

10:18 Prevalence of Maculopathy as Occupational Hazard in Arc Welders
Praveena TANDON

10:24 Increased Levels of Dickkopf-1 in Vitreous of Patients with Pathologic Myopia and Its Correlation with Axial Length, Subfoveal Choroidal Thickness and Inflammatory Cytokines
Manjuan PENG

Cataract

Rapid Fire Cataract Update Session 2
11:00 - 12:30 Venue: Plenary Hall 1
Chair(s): Richard PACKARD, Suwich RATANASIRINTRAWOOT

11:00 To Study the Surgical Outcomes of Precision Pulse Capsulotomy (PPC) in Phacoemulsification Surgery and Its Comparison with Manual (Needle Assisted) and Femtosecond Laser Assisted Capsulorhexis
Aditya KELKAR
11:06 A Novel Technique for Safe Phacoemulsification in Posterior Polar Cataracts
Minu MATHHEN

11:12 RAPID, an Enmasse Technique, for Soft Cataract Phacoemulsification
Tushya OM PAKASH

11:18 Terminator a Wedge Tool: Modified Classical Simple Machine, to Crack and Break the Hard Cataract
Rajendra PRASAD

Rajendra PRASAD

11:30 Endocapsular Ring Implantation for Subluxated Cataract: Modified Techniques
Basant KUMAR SINGH

Yu-Chi LIU

11:42 Assessment of Corneal Thickness after Manual Small Incision Cataract Surgery
Arjun SHRESTHA

11:48 Endophthalmitis Reduction with Intracameral Moxifloxacin following Posterior Capsule Rupture
Haripriya ARAVIND

11:54 Post-Operative Complications after Cataract Surgery in Patients with Sjögren’s Syndrome
Sepehr SADEGHI

12:00 To Study Visual Outcome, Endothelial Cell Loss and Complications after Retropupillary IRIS Claw Lens Implantation in Patients with Deficient Posterior Capsule
Satya SINGH

12:06 Hyadex — A Slow-Release Anti-Inflammatory Treatment following Cataract Surgery
Amir SAMADI

12:12 An Outbreak of Multidrug-Resistant Pseudomonas aeruginosa Endophthalmitis after Cataract Surgery Caused by Contaminated Trypan Blue Ophthalmic Solution
Chintan DESAI

12:18 Should Macular SD-OCT be Included as a Screening Tool Prior to Routine Cataract Surgeries?
Himali KAPANIA

Cornea, External Eye Diseases & Eye Bank

Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 2

09:00 - 10:30 Venue: Meeting Room 3
Chair(s): Teeravee HONGYOK

09:00 Involvement of Anterior and Posterior Corneal Surface Area Imbalance to Detect Forme Fruste Keratoconus
Koji KITAZAWA

09:07 Nature and Nurture Model of Keratoconus (KC): from Genetics to Gene Expression
Anjana KARUNAKARAN

09:14 Prevalence of Meibomian Gland Dysfunction, Dry Eye, and Posterior Blepharitis Based on a Population-Based Study (Hirado-Takushima Study) in Takushima Island in Japan
Reiko Arita

09:21 Quantification of Endothelial Cell Loss with a Pull-Through Inserter for Descemet’s Membrane Endothelial Keratoplasty
Tien-En TAN

09:28 Functional Evaluation of Two Corneal Endothelial Cell-Based Therapies for Corneal Endothelial Dysfunction: Tissue-Engineered Construct and Cell-Injection Therapy
Hon Shing ONG

09:35 The Expression of Prostaglandin E2 Receptor 3 in the Eyelid Epidermis of Patients with Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis
Hiroki MIENO

09:42 Long-Term Outcome of Mucous Membrane Grafting for Lid Margin Keratinization in Stevens-Johnson Syndrome (SJS)
Pavani PENUGONDLA

09:49 Corneal Nerve Morphology Analysis in Healthy and Diseased Cornea Using a Novel Software in Confocal Microscopy
Anjana KARUNAKARAN

09:56 Clinical Features and Cytokine Profile in Patient’s with Recalcitrant SJS
Bhaskar SRINIVASAN

10:03 Expansive Mortar — A New Ocular Hazard
Sanjiv DESAI

10:10 Cytokine and Matrix Metalloproteinase — 9 Profile in the Keratoconus Patients Tear Fluid
Jana GERTNERE
10:17 Outcomes of Descemet Membrane Endothelial Keratoplasty in Patients With Pseudophakic Bullous Keratopathy
   Anahita KATE

Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 3

11:00 - 12:30 Venue: Lotus Room
   Chair(s): Rajesh FOGLA, Kanaspana KLANARONGRAN

11:00 Donor and Tissue Profiling at the Time of Eye Donation at a Tertiary Care Hospital in Western India
   Aditi PAI

11:06 Study on Factors Affecting Serological Testing of Cadaveric Donor Cornea in a Tertiary Hospital in Western India
   Atul KAMATH

11:12 Routine Donor Tomography in the Eye Bank as Sterile Screening Method for Improved Graft Selection in Corneal Transplantation
   Berthold SEITZ

11:18 Diagnosis of Bacterial Ocular Infectious Disease by Nested-PCR
   Keisuke NAKAYAMA

11:24 Freeze-Dried Human Amniotic Membrane Transplant in Treating Bacterial Corneal Ulcer: A Randomized Trial
   Made SUSIYANTI

11:30 Safety and Efficacy of Frequency Doubled Nd-Yag Laser Photocoagulation of Corneal Vascularisation (NLPC)
   Keerti WALI

11:36 Corneal Sustained Release Antimicrobial Implants: A Novel Therapy for Posterior Corneal Infection
   Lional DANIEL RAJ PONNIAH

11:42 Clinical Severity Grading Tool for Cicatrising Conjunctivitis: A Validation Study
   Hon Shing ONG

11:48 Fifteen-Year Results of a Randomized Controlled Trial Comparing 0.02% Mitomycin-C, Limbal Conjunctival Autograft, Versus Combined Mitomycin C and Limbal Conjunctival Autograft in Recurrent Pterygium Surgery
   Ka Wai KAM

11:54 Efficacy of Gancyclovir in Treatment of Adenoviral Keratitis
   Shahrina MAHFOOZ

12:00 Intraocular Pressure Elevation and Glaucoma in Cases with Cytomegalovirus-Related Corneal Endothelitis
   Toshihide IKEDA

12:06 Negative Impact of Dextran in Organ Culture Media for Pre-Stripped Tissue Preservation on DMEK (Descemet Membrane Endothelial Keratoplasty) Outcome
   Berthold SEITZ

12:12 Efficacy of Autologous Blood Clot in Primary Pterygium Excision Compared with Suture Technique
   Md.Iftekker IQBAL

12:18 Pellucid Marginal Degeneration and Keratoconus — A Structural, Molecular and Biomechanical Study
   Gairik KUNDU

Glaucoma

Rapid Fire Glaucoma Update Session 2

11:00 - 12:30 Venue: Ballroom
   Chair(s): Fei LI, Anita MANASSAKORN, Shamira PERERA

11:00 Differentiating Age-Related Optic-Nerve-Head Change from Early Glaucoma in Elderly Patients
   Ahnul HA

11:06 Double-Masked, Randomized, Dose-Response of Phase 2 Study of PHP — 201 in Patients with Normal Tension Glaucoma
   Ki Ho PARK

11:12 Incidence of Normal Tension Glaucoma Among Chinese Patients with Treatment Naïve Obstructive Sleep Apnea Syndrome
   Kendrick SHIH

11:18 Efficacy and Safety of Intravitreal Aflibercept Injection in Japanese Patients with Neovascular Glaucoma: The VEGA Study
   Kenji MATSUSHITA

11:24 Outcomes of Two Second-Generation Trabecular Micro-Bypass Stents in Subjects with Open-Angle Glaucoma (OAG) on One Preoperative Ocular Hypotensive Medication
   Shamira PERERA

11:30 Phacocanaloplasty in Patients with Pseudoexfoliation Glaucoma — Six-Year Results
   Jamil HASANOV

11:36 A Novel Method for the Localization and Management of Large and Deep Traumatic Cyclodialysis Cleft by Using Endocamera for Direct Suturing
   Tham Truong Khanh VAN
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<tr>
<th>Time</th>
<th>Title</th>
<th>Author(s)</th>
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<tbody>
<tr>
<td>11:42</td>
<td>Can Toric IOL Option be Given to Patients Undergoing Phacotrabeculectomy? Visual and Refractive Outcome Especially Surgically Induced Astigmatism following Single-Site Versus Twin-Site Phacotrabeculectomy</td>
<td>Pankaj BENDALE</td>
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<td>11:48</td>
<td>Post Keratoplasty Glaucoma in Perforated Fungal Keratitis</td>
<td>Charudutt KALAMKAR</td>
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<td>11:54</td>
<td>Selective Mitochondrial Autophagy in Retinal Ganglion Cells following Short-Term Intracranial Pressure Reduction — Beijing iCOP Study</td>
<td>Xiao Xia LI</td>
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<td>12:00</td>
<td>Using Subconjunctival Anesthesia as an Alternate Anesthetic Technique for MicroPulse Cyclophotoagulation</td>
<td>Helen CHUNG</td>
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<td>12:06</td>
<td>A Prospective, Randomized Pivotal Study of Second-Generation Trabecular Micro-Bypass Stents Implanted in Conjunction with Cataract Surgery</td>
<td>David LUBECK</td>
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<td>12:12</td>
<td>Hemi-GATT as a Novel 180-Degree Approach to Gonioscopy Assisted Transluminal Trabeculotomy</td>
<td>Helen CHUNG</td>
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<tr>
<td>12:18</td>
<td>Long-Term Intraocular Pressure Fluctuation as a Risk Factor for Visual Field Progression — Results from the Singapore 5-Fluorouracil Study</td>
<td>Bryan ANG</td>
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<td>12:24</td>
<td>Efficacy and Safety of Crosslinking on Leaking Cystic Bleb: A Prospective Study</td>
<td>Yu CAI</td>
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<td>11:16</td>
<td>Retinal Complications in Uveitis Patients in Taiwan — A Population-Based Study</td>
<td>De-Kuang HWANG</td>
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<td>11:24</td>
<td>Improvement in Vitreous Haze in Active Non-Infectious Uveitis of the Posterior Segment with Intravitreal Sirolimus</td>
<td>Harvey UY</td>
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<td>11:32</td>
<td>Antagonist of GH-Releasing Hormone Receptor Alleviates Experimental Autoimmune Intraocular Inflammation</td>
<td>Jian LI</td>
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<td>11:40</td>
<td>The Effect of SS31 on ARPE-19 Cells during Oxidative Stress</td>
<td>Zejun CHEN</td>
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<td>11:48</td>
<td>Uveitis is a Predictive Factor for Acute Myocardial Infarction among Patients with Behcet’s Disease: A Nationwide Cohort Study</td>
<td>Yu-Yen CHEN</td>
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<td>11:56</td>
<td>Vitreous Body Change: How It Looked in Tumours?</td>
<td>Suklengmung BURAGOHAIN</td>
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<td>12:04</td>
<td>Establishing “Retinoblastoma Center” in a Tertiary Eye Care Center of Bangladesh — A New Hope for Retinoblastoma Patients</td>
<td>Soma ROY</td>
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<td>12:12</td>
<td>Uniocular Squamous Papilloma in the Setting of Bilateral Ocular Cicatrical Pemphigoid</td>
<td>Leo MANUEL</td>
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<tr>
<td>12:20</td>
<td>Progesterone Receptor and Neurofibromatosis-2 Expression, the Use of Exogenous Progesterone, and Their Association with Risk of Orbitocranial Meningioma in Females</td>
<td>Agus SUPARTOTO</td>
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**Intraocular Inflammation, Uveitis, Scleritis, Ocular Oncology & Academia**

**Rapid Fire Intraocular Inflammation, Uveitis, Scleritis, Ocular Oncology and Academia Update Session**

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<tr>
<td>11:00 - 12:30</td>
<td>Venue: Boardroom 4</td>
<td>Chair(s): Jyotirmay BISWAS, Sutasinee BOONSOPON</td>
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<tr>
<td>11:00</td>
<td>Performance of an Ocularfluorometer Equipped with a Lock-In Amplifier for Measurement of Aqueous Flare: Data from Uveitis and Post-Cataract Patients</td>
<td>Sudhir RACHAPALLE REDDI</td>
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<tr>
<td>11:08</td>
<td>Triggering Factors Associated with Attack of Recurrent Acute Anterior Uveitis</td>
<td>Anchisa PIMSRI</td>
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**Neuro-Ophthalmology**

**Rapid Fire Neuro-Ophthalmology and Ocular Imaging Update Session**

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<tr>
<td>09:00 - 10:30</td>
<td>Venue: Auditorium</td>
<td>Chair(s): Parima HIRUNWIWATKUL, Sharon TOW</td>
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<tr>
<td>09:00</td>
<td>The Comparison of Autoimmune Antibody Positive Autoimmune Optic Neuropathy between AQP4-Ab Positive and Negative Patients</td>
<td>Teng DA</td>
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<tr>
<td>09:07</td>
<td>Different Characteristics of Aquaporin-4 or Myelin Oligodendrocyte Glycoprotein Antibody-Seropositive Male Optic Neuritis in China</td>
<td>Huanfen ZHOU</td>
</tr>
</tbody>
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Ocular Imaging

Rapid Fire Ocular Imaging Update Session

11:00 - 12:30  Venue: Boardroom 3  
Chair(s): Paradee KUNAVISARUT

11:00  PCV Lesion on OCTA following Treatment  
Eung-Suk KIM

11:07  Evaluation of Peripapillary Vessel Flow Change after Vitrectomy Using OCT-A  
Sungrae NOH

11:14  Optical Coherence Tomography Angiography Analysis of Changes in the Retina and the Choroid after Haemodialysis  
Hee Yoon CHO

11:21  Clinical Observation of Intrinsic Feeder Vessels and Secondary Choroidal Neovascularization in Choroidal Osteoma Using OCT Angiography  
Min WANG

11:28  Quantitative Microvascular Changes in Surgically Repaired Rhegmatogenous Retinal Detachment by OCT Angiography  
Sanghyu NAM

11:35  Associations between the Retinal Vascular Topography and the Disc Parameters In Myopic Eyes  
Kunliang QIU

11:42  OCTA Findings in Retinal Vein Occlusion Treated with Anti-VEGF  
Eung-Suk KIM

11:49  Characteristics of Subretinal Neovascular Membrane on Optical Coherence Tomography Angiography in Macular Telangiectasia Type 2  
Komal AGARWAL

Valentina BELLEMO

12:03  Regional Growth of Geographic Atrophy and Visual Acuity: A Longitudinal Analysis  
Jong In YOU

12:10  Application of OCTA in Optic Neuritis  
Shihui WEI

12:17  Underdiagnosed Optic Disc Pit Maculopathy — Spectral Domain Optical Coherence Tomography Features for Accurate Diagnosis  
Adrian FUNG

Ophthalmic Epidemiology, Telemedicine, Big Data & AI

Rapid Fire Ophthalmic Epidemiology, Telemedicine, Big Data and AI Update Session

09:00 - 10:30  Venue: Boardroom 3  
Chair(s): Michael CHIANG, Prut HANUTSAHA
Risk Factors for Severe Dry Eye Disease: Large-Scale Crowdsourced Research Using iPhone Application DryEyeRhythm
Takenori INOMATA

Is Kidney Function Associated with Primary Open-Angle Glaucoma? Meta-Analysis from the Asian Eye Epidemiology Consortium
Yih-Chung THAM

Efficacy of Trash To Treasure (T3) Retcam among Diabetic Patients with Retinopathy
Prithvi CHANDRAKANTH

Survey of Primary Healthcare Physicians on Tele-Ophthalmology Practice in Singapore
Preethi JEWABAL

Increasing the Size of Training Samples for Lesion-Based Diabetic Retinopathy Diagnosis
Kangrok OH

Population Prevalence and Pattern of Retinal Diseases in Nepal: The Bhaktapur Retina Study
Raba THAPA

Application of Deep Learning Image Assessment Software VeriSee™ for Diabetic Retinopathy Screening
Yi-Ting HSIEH

Epidemiology of Astigmatism in Hong Kong Children and Their Parents
Ka Wai KAM

Identification of Serum Metabolites Associated with Intraocular Pressure: The Singapore Epidemiology of Eye Diseases (SEED) Study
Sahil THAKUR

Prevalence and Severity of Smartphone Addiction and Dry Eye Disease in University Students
Kendrick SHIH

Factors Associated with Presbyopia Progression in Asians: The Singapore Epidemiology of Eye Diseases Study
Shivani MAJITHIA

Community Outreach: An Indicator for Assessment of the Prevalence of Amblyopia
Saurabh DESHMUKH

Prevalence, Risk factors and Vision Association with OCT Diagnosed Epiretinal Membrane in the SEED Cohort
Kelvin TEO

Orbital and Oculoplastic Surgery

Rapid Fire Orbital and Oculoplastic Surgery Update Session

A Novel Technique of Ultrasound Guided Intralesional Injection of Bleomycin for Orbital Lymphangioma
Kirhti KOKA

Outcomes of Low-Dose Intravenous Methyl Prednisolone Pulse Therapy and Immunosuppression in Orbital Inflammatory Disorders
Ankita AISHWARYA

Fornix Reconstruction: External Bolster vs Internal Fixation
Syed KADIR

Congenital Nasolacrimal Duct Obstruction — A Case Series
Md. ISLAM

Orbital Implant Migration — Are We Thinking Correctly?
Tarjani DAVE

Correlation between Ocular Surface Disease Index and Clinical Activity Score in Thyroid Eye Patients
Christopher LO

Clinoid Process as a Surrogate Landmark for Proptosis Measurement in Thyroid Eye Disease Post Decompression
Stephanie YOUNG

Age-Related Changes in Anthropometric Measurements in the Ocular Region from Childhood to Adulthood in Chinese Han Population
Huan MA

Is the Non-Endoscopic Endonasal Dacryocystorhinostomy (NEED Procedure) the Gold Standard?
Bayasgalan PUREVDORJ

Volumetric Analysis of Extraocular Muscles in Thyroid Eye Disease
Stephanie YOUNG

Per Operative Adjustment of Levator Surgery in Neurofibromatosis Induced Ptosis
Golam HAIDER

In Vivo Periocular Tissue Response of Thai Silk Fibroin Based Biomaterial
Seechompoo THANGSATTAYATISATHAN
12:24 Surgical Outcome of Navigation Guided Transcaruncular Orbital Optic Canal Decompression in Direct and Indirect Traumatic Optic Neuropathy
Kasturi BHATTACHARJEE

Pediatric Ophthalmology & Strabismus

Rapid Fire Pediatric Ophthalmology and Strabismus Update Session

11:00 - 12:30 Venue: C Ground Meeting Room 2
Chair(s): Thandalam SURENDRAN, Piangporn SAKSIRIWUTTO

11:00 Predicting Factors of Long Term Successful Outcome for Childhood Esotropic Strabismus Surgery
Techat ARIYANONT

11:07 Prevalence & Causes of Amblyopia in Children 6 Months to 16 Years in Kamrup Metro (Urban) District
Anshul SINGH

11:14 Electroretinography, a Reliable Tool in the Exclusion Criteria For Amblyopia
Krati GUPTA

11:21 Macular and Paripapillary Retinal Nerve Fibre Layer Thickness In Amblyopia
Sonia PHULKE

11:28 Use of Conjunctival Autograft for Prophylaxis of Postoperative Diastase of Superficial Tissues in Surgery of Great Angles of Squint
Konstantin NAUMOV

11:35 Managing Traumatic Pediatric Cataract: A Review
Aditya SETHI

11:42 Role of Ultrasound Biomicroscopy (UBM) in Management of Pediatric Cataract
Yogita GUPTA

11:49 Oral Propranolol in the Treatment of Infantile Eyelid Haemangioma
Riffat RASHID

11:56 Simultaneous Weakening of Both Obliques with Horizontal Recti Surgery for Large Sensory Exotropias
Divya KISHORE

12:03 Evaluation of the Therapeutic Effect of Patching in Intermittent Exotropia
Rimsha SAROSH

12:10 Retinoblastoma in Older Children: A Case Report and Review
Dianita GINTING

12:17 Inferior Oblique Muscle Adherence following Unilateral Inferior Oblique Anteriorization
Shilpa RAO

Refractive Surgery

Rapid Fire Refractive Surgery Update Session

11:00 - 12:30 Venue: Meeting Room 1
Chair(s): Robert ANG, Patchima CHANTAREN, Minoru TOMITA

11:00 Early Clinical Observation of Intraoperative Corneal Stromal Pocket Irrigation by Dexamethasone in Small Incision Lenticule Extraction
Gang LIANG

11:08 Outcomes of Photorefractive Keratectomy for the Treatment of Irregular Astigmatism following Deep Anterior Lamellar Keratoplasty or Penetrating Keratoplasty
Mubashir PARKAR

11:16 The Results after Implantation of Multifocal LentiSM Plus Toric in the Amblyopic Eyes
Magda RAU

11:24 Comparison of Visual Outcomes and Safety of Trans-Epithelial Photorefractive Keratectomy Using Alcon Wavelight EX500 with Conventional Photorefractive Keratectomy
Mubashir PARKAR

11:32 Breastfeeding and Photorefractive Keratectomy: A Retrospective Cohort Study
Siamak ZAREI-GHANAVATI

11:40 Vector Analysis of High (≥3 Diopters) Astigmatism Correction Using Small-Incision Lenticule Extraction and Laser In-Situ Keratomileusis
Tommy CHAN

11:48 Comparison of Visual and Aberration Outcomes between Trans-Epithelial Photorefractive Keratectomy (Trans PRK), Wavefront Guided Laser In Situ Keratomeleusis (WFG LASIK) and Small Incision Lenticule Extraction (SMILE)
Zelda DADACHANJI

11:56 Translational Impact of Lysyl Oxidase (LOX) on Cross-Linking/Refractive Surgery and Allied Novel Point-Of-Care Diagnostic Kit
Pooja KHAMAR
12:04 Analysis of Corneal Stromal and Corneal Nerve Changes following Lasik Using In Vivo Confocal Microscopy (IVCM)  
Isha AGARWALLA

12:12 Tissue Addition Combined with Collagen Cross Linking — A New Treatment Modality for SMILE Ectasia  
Sheetal BRAR

12:20 First Direct Comparison of Surface Ablation Versus CIRCLE for Enhancement after Myopic SMILE  
Martin DIRISAMER

Retina (Medical)

Rapid Fire Retina (Medical) Update Session 1

09:00 - 10:30  
Venue: Plenary Hall 3  
Chair(s): Kittisak KULVICHIT, Timothy LAI, Colin TAN

09:00 Progressive Retinal Neurodegeneration and Microvascular Change in Diabetic Retinopathy: A Longitudinal Study Using Optical Coherence Tomography Angiography  
Kiyomi KIM

09:06 Anti-Vascular Endothelial Growth factor A/Anti-Angiopoietin-2 Bispecific Antibody Faricimab in Diabetic Macular Edema: Efficacy and Safety Results from the Phase 2 BOULEVARD Randomised Clinical Trial  
Gemmy CHEUNG

09:12 RGC-IPL Thickness and Choroidal Thickness in SD-OCT as a Tool for Early Prediction of Hydroxychloroquine Retinal Toxicity  
Remya PAULOSE

09:18 Relation between Mean Platelet Volume and Central Retinal Vein Occlusion in Hypertensive Patients  
Awaneesh UPADHYAY

09:24 Evaluation of Indocyanine Green Angiographic Features in Symptomatic Macular Polypoidal Choroidal Vasculopathy over 24 Months: Results from the EVEREST II Study  
Colin TAN

09:30 Screening Failure Rates in the EVEREST II Clinical Trial Reveal the Challenges in the Diagnosis of Symptomatic Macular Polypoidal Choroidal Vasculopathy  
Colin TAN

09:36 Patterns of Hydroxychloroquine and Chloroquine Retinopathy in Thai Patients  
Nantinee VILAINERUN

09:42 Central Serous Choroidopathy: Epidemiology, Clinical Characteristics, and Influence of Systemic Conditions  
Devesh KUMAWAT

09:48 Clinical Features of Poor Responders in Half-Dose Photodynamic Therapy for Central Serous Chorioretinopathy  
Natsuki KUSADA

09:54 Eplerenone for Chronic Central Serous Chorioretinopathy with Cystoid Macular Edema  
Vignesh T P

10:00 Dexamethasone Implant for Diabetic Macular Edema in Naive Compared to Refractory Eyes. The International Retina Group Real-Life 24 Month Multicentre (IRGRel-DEX) Study  
Adrian FUNG

10:06 Anti-Vascular Endothelial Growth Factor-A/Anti-Angiopoietin-2 Bispecific Antibody Faricimab in Neovascular Age-Related Macular Degeneration: Results of Phase 2 Trials  
Timothy LAI

10:12 Patterns of Hydroxychloroquine and Chloroquine Retinopathy in Thai Patients  
Nantinee VILAINERUN

10:18 Global Assessment of Retinal Arteriolar and Capillary Microcirculations Using Fundus Photographs and Optical Coherence Tomography Angiography in Diabetic Retinopathy  
Tien-En TAN

10:24 Phase I/II Study: Safety and Bioactivity of Carotuximab (DE-122) for Refractory Wet Age-Related Macular Degeneration  
Harvey UY

Rapid Fire Retina (Medical) Update Session 2

11:00 - 12:30  
Venue: Plenary Hall 3  
Chair(s): Gemmy CHEUNG, Paul MITCHELL, Thitiporn RATANAPOJNARD

11:00 Short-Term Real-World Outcomes in Patients Undergoing Intravitreal Conbercept for Neovascular Age-Related Macular Degeneration  
Xinxiao GAO

11:06 The Short-Term Efficacy and Safety of Intravitreal Afibercept (IVT-AFL) in Korean Wet Age-Related Macular Degeneration (wAMD) Patients: Based on 2014-2017 Korean Afibercept Post Marketing Surveillance (PMS)  
Min SAGONG
11:12 Aqueous Levels of Cytokines in Eyes with Myopic Macular Degeneration
Chee Wai WONG

11:18 PLANET Study: Two-Year Anatomical and Morphological Outcomes with Intravitreal Aflibercept Monotherapy Versus Aflibercept Plus Rescue Photodynamic Therapy Assessed by Optical Coherence Tomography
Gemmy CHEUNG

11:24 Safety and Bioavailability of Complete and Half Dose Intravitreal Ziv-Aflibercept Injection in an Experimental Model: Contralateral Eye Study
Mojtaba ABRISHAMI

11:30 Real-World Data of Intravitreal Aflibercept for Myopic Choroidal Neovascularization: 6-Month Outcomes of Japan Post-Marketing Surveillance
Tae YOKOI

11:36 Intravitreal Aflibercept Treat-and-Extend Dosing for Wet Age-Related Macular Degeneration: ALTAIR 96-Week Results
Yoshimi NAGAI

11:42 Efficacy of Intravitreal Aflibercept Administered Using Treat-and-Extend Regimen over 2 Years in Patients with Neovascular Age-Related Macular Degeneration: Baseline Characteristics of ARIES
Paul MITCHELL

11:48 Timing of Complete Absence of Polypoidal Lesions following Fixed Dosing Aflibercept Treatments in Polypoidal Choroidal Vasculopathy
Phit UPAPHONG

11:54 Real-World Data of Intravitreal Aflibercept for Diabetic Macular Edema: 6-Month Outcomes of Japan Post-Marketing Surveillance
Masahiko SUGIMOTO

12:00 PLANET Study: Year 2 Treat-and-Extend Intravitreal Aflibercept Use in Patients with Polypoidal Choroidal Vasculopathy
Won Ki LEE

12:06 Efficacy of Adjuvant Topical Timolol-Dorzolamide with Intravitreal Bevacizumab Injection in Diabetic Macular Edema: Contralateral Eye Pilot Study
Mojtaba ABRISHAMI

12:12 A 10-year Retrospective Review of the Real-life Use of Anti-VEGF in Patients with Age Related Macular Degeneration in Hong Kong
Raymond WONG

12:18 Comparison of Treatment Outcomes among Subtypes of Polypoidal Choroidal Vasculopathy in a Multicenter Randomized Controlled Study (EVEREST Study)
Wei Kiong NGO

12:24 The Impact of Extent of Internal Limiting Membrane Peeling on Anatomical Outcomes of Macular Hole Surgery: Results of a 54-Week Randomized Clinical Trial
Yuou YAO

Translational Research in Ophthalmology, Visual Sciences & Glaucoma

Rapid Fire Translational Research, Visual Sciences and Glaucoma Update Session

09:00 - 10:30 Venue: Boardroom 2
Chair(s): Kevin CHAN, Tsoncho IANCHULEV, Yanin SUWAN

09:00 Comparison of Central Corneal Thickness Measurements Using Optical and Ultrasound Pachymetry in Glaucoma Patients and Elderly and Young Controls
Karin PILLUNAT

09:06 Comparison of New Head Mount Perimeter, Virtual Reality Based C3 Visual Field Analyser (CFA) with Standard Humphrey’s Field Analyser (HFA) in Patients With and Without Glaucoma
Pavan KUMAR

09:12 The Influence of the Retinal Vascular Topography on the Diagnostic Performance of Retinal Nerve Fiber Layer Thickness Measurements Determined by SD-OCT
Mingzhi ZHANG

09:18 FitSight Watch: A Novel Approach to Measure Outdoor Light Patterns in 7-Year-Old Singapore Children
Carla LANCA

09:24 Spatiotemporal Expression Changes of PACAP and Its Receptors in Retinal Ganglion Cells after Optic Nerve Crush
Dan YE

09:30 Simulation of Restored Accommodation after Scleral Therapies Using Finite Element Analysis
Annmarie HIPSLEY

09:36 Regional Biomechanics and Its Correlation with Molecular Signatures In Keratoconus
Nikhil BALAKRISHNAN
09:42 Enhancement of a Deep Learning System Using Newer Convolutional Neural Networks and Transfer Learning for Detection of Referable Diabetic Retinopathy
  *Michelle YIP*

09:48 New Era of Lens Biophysical Quantification with High Speed Swept Source OCT
  *Pooja KHAMAR*

09:54 Mathematical Modelling: A Novel Computational Method to Predict the Future of Refractive Surgery Using Corneal Biomechanics
  *Ann KOSHY*

10:00 Casein Kinase-II Inhibition Promotes Retinal Ganglion Cell Survival and Axonal Regeneration
  *Tsz-Kin NG*

10:06 Comparison of Amplitude of Accommodation Difference after Continuous Near Work and with Periodic Breaks Using Rule 20-20-20
  *Rahmat FITRA*

10:12 Role of Retinal Eccentricity in Dark Adaptation of the Eye
  *Akshay NARAYAN*

10:18 Corneal Rim and Tackdriver as Innovative Minimally Invasive Glaucoma Surgery Training Models
  *Helen CHUNG*
POSTERS

Academia, Research, Teaching and Education in Ophthalmology

Poster No.: EX1-001
Multimodal Imaging of an Experimental Retinal Vein Occlusion Mouse Model
First Author: Norihiro SUZUKI
Co-Author(s): Yoshio HIRANO, Yuichiro OGURA, Tsutomu YASUKAWA, Munenori YOSHIDA

Poster No.: EX1-002
Resident Assessment Tools for Nd:YAG Laser Peripheral Iridotomy and Selective Laser Trabeculoplasty
First Author: Danielle WENTZELL
Co-Author(s): Helen CHUNG, Patrick GOOI, Chris HANSON, Matt SCHLENKER

Poster No.: EX1-003
Evaluation Tool for Resident Performance of Nd:YAG Laser Capsulotomy
First Author: Danielle WENTZELL
Co-Author(s): Helen CHUNG, Patrick GOOI, Chris HANSON, Matt SCHLENKER

Poster No.: EX1-004
A Review of Competency-Based Medical Education in Ophthalmology Residency Training
First Author: Danielle WENTZELL
Co-Author(s): Helen CHUNG, Patrick GOOI, Chris HANSON, Matt SCHLENKER, Kevin WARRIAN

Poster No.: EX1-005
Medical Student Perception of Various Small Group Teaching and Learning Techniques During Ophthalmology Clinical Posting
First Author: Prabhu VENKATESAN
Co-Author(s): Rajiv GUPTA, Soumendra SAHOO, Saurab SRIVATSAV

Poster No.: EX1-006
Impact of Training Model for Primary Care Physicians in Reducing Diabetic Complications in India: A Systematic Review
First Author: Pushkar KUMAR
Co-Author(s): Gudlavalleti Venkata Satyanarayana MURTHY, Dorairaj PRABHAKARAN, Ramachandran RAJALAKSHMI, Kim RAMASAMY, Ranjit UNNIKRISHNAN

Poster No.: EX1-007
The Use of an E-Learning Model to Enhance Skills of Primary Care Physicians in Diabetic Retinopathy Management at a Primary Care Level in India
First Author: Manoj JOSHI
Co-Author(s): Gudlavalleti Venkata Satyanarayana MURTHY, Dorairaj PRABHAKARAN, Ramachandran RAJALAKSHMI, Kim RAMASAMY, Ranjit UNNIKRISHNAN

Poster No.: EX1-008
A Unique Education Program on Diabetic Retinopathy for Primary Care Physicians in India: An Eye Toward the Future
First Author: Sandeep BHALLA
Co-Author(s): Gudlavalleti Venkata Satyanarayana MURTHY, Dorairaj PRABHAKARAN, Ramachandran RAJALAKSHMI, Kim RAMASAMY, Ranjit UNNIKRISHNAN

Cataract

Poster No.: EX1-009
Prevalence of Corneal Astigmatism Before Cataract Surgery in Cambodian Population
First Author: Vinh SUN
Co-Author(s): Ponndara ITH, Piseth KONG, Bunsocheat MAM, Amarin MAR, Meng NGY

Poster No.: EX1-010
IOL Opacification Years After Uncomplicated Cataract Surgery: An Upcoming Challenge
First Author: Remya PAULOSE
Co-Author(s): Jyotirmay BISWAS, Thomas Cherian CHERIAN, Reesha KARINGATTIL

Poster No.: EX1-011
IOL Scaffold in Phacoemulsification to Prevent Posterior Capsule Tear
First Author: Ashraful RIDOY
Co-Author(s): Niaz ABDUR RAHMAN, Mahbubur Rahman CHOWDHURY, Mahziba CHOWDHURY, Syeed KADIR

Poster No.: EX1-012
Final Visual Outcomes Following Cataract Surgery at Outreach Camps in Remote Areas in Timor-Leste
First Author: Frenky DE JESUS

Poster No.: EX1-013
Assessment of Visual Acuity Using Tablet and Smartphone Applications
First Author: Wimwipa DIEOSUTHICHAT
Co-Author(s): Sarayut NUWIPAKUL, Wichai PRASARTRITHA
Poster No.: EX1-014
Repair of Corneal Laceration with Removal of Traumatic Cataract and Subsequent Posterior Chamber Intraocular Lens Implantation and Membranectomy in a 15-Year-Old Female: A Case Report
First Author: Cristina TAN
Co-Author(s): Victor CAPARAS, Corinna Elise SAMANIEGO

Poster No.: EX1-015
Cataract in an Underdeveloped Region of Indonesia: Visual Outcome of Cataract Surgery and Influencing Factors
First Author: Cynthia VIRYAWAN
Co-Author(s): Michael HARTONO, Nur Azizah JUZMI

Poster No.: EX1-016
Outcome of Scleral Fixation Intraocular Lens in Absent Posterior Capsule Support
First Author: Arjun SHRESTHA

Poster No.: EX1-017
Multimodal Imaging in an Idiopathic Spontaneously Absorbed Cataractous Lens
First Author: Saurabh DESHMUKH
Co-Author(s): Harsha BHATTACHARJEE, Krati GUPTA, Diva MISRA

Poster No.: EX1-018
Comparison of Anterior Chamber Depth, Axial Length, and Keratometry Using 5 Biometric Measurements
First Author: Yong WANG
Co-Author(s): Bichao CHEN, Xueting LI, Huang En LI

Poster No.: EX1-019
Surgical Outcomes of Cataract Surgery in Very Elderly Patients
First Author: Yusuke KOGA
Co-Author(s): Koji KITAZAWA, Kentaro KOJIMA, Natsuki KUSADA, Chie SOTOZONO, Kazuhiro YONEDA

Poster No.: EX1-020
Comparison of the Accuracy of Barrett Universal II and 4 Intraocular Lens Formulas Optimized by Wang-Koch Formula in Eyes Above 25 mm with a Trifocal IOL
First Author: Yong WANG
Co-Author(s): Bichao CHEN, Xueting LI, Tan QIAN

Poster No.: EX1-021
Soft Shell Technique: Outcome of Phacoemulsification Surgery for Hard Cataract
First Author: Sharifa MITU
Co-Author(s): Rahima BHUIYA, Ahsanul HUQ, Syeed KADIR, Zahangir MUKUT

Poster No.: EX1-022
Efficacy and Safety of Ketorolac Tromethamine 0.45% for Treatment of Anterior Segment Inflammation and Pain After Phacoemulsification in Type 2 Diabetic Patients
First Author: Ainal NAFFI
Co-Author(s): Jemaima CHE HAMZAH, Norshamsiah MD DIN, Safinaz MOHD KHIALDIN, Othmaliza OTHMAN

Poster No.: EX1-023
Preliminary Clinical Observation on Vision Quality of Implantation with Refractive Rotationally Asymmetric Multifocal Intraocular Lens
First Author: Yong WANG
Co-Author(s): Xiao WANG

Poster No.: EX1-024
Modified Iris Repair in Traumatic Iris
First Author: Siska SUMANJAYA
Co-Author(s): Ariesanti HANDAYANI, Gede JAYANEGARA, Gita SARASWATI

Poster No.: EX1-025
Intraoperative Difficulties, Complications, and Patient-Reported Visual Function in Cataract Surgery
First Author: Magnus GRIMFORS
Co-Author(s): Jonas HÖJER, Maria KUGELBERG, Mats LUNDSTRÖM

Poster No.: EX1-026
Evaluation of the Effect of Higher-Order Aberrations on Visual Performance in Patients Implanted with Rotationally Asymmetric Multifocal Intraocular Lens
First Author: Yong WANG
Co-Author(s): Xiao WANG

Poster No.: EX1-027
Comparative Analysis of Postoperative Optical Performance in Different Pupil Diameters with 3 Intraocular Lenses: Bifocal, Trifocal, and Extended Range of Vision
First Author: Yong WANG
Co-Author(s): Bichao CHEN, Xueting LI, Tan QIAN

Cornea, External Eye Diseases & Eye Bank

Poster No.: EX1-028
Screening for MIR184 Mutations in Iranian Patients with Keratoconus
First Author: Nader NASSIRI
Co-Author(s): Kourosh SHEIBANI

Poster No.: EX1-029
Prognosis and Risk Factors for Treatment Failure of Secondary Infectious Keratitis in Patients with Herpetic Keratitis
First Author: Kyung Chul YOON
Co-Author(s): Won CHOI, Rujun JIN, Dong Kyu LEE, Ying LI

Poster No.: EX1-030
Continuous Exposure of Nicotine and Cotinine Retards Human Primary Pterygium Cell Proliferation and Migration
First Author: Tsz-Kin NG
Co-Author(s): Vishal JHANJI, Calvin PANG, Qichen YANG

Poster No.: EX1-031
Annular Conjunctival Autograft: A Novel Approach for Ocular Surface Reconstruction
First Author: Sujit BISWAS
Co-Author(s): Soma ROY
Poster No.: EX1-032
Effect of Outdoor Environmental Pollution on the Ocular Surface
First Author: Tripti JOHRI
Co-Author(s): Varun SAINI, Narinder SINGH

Poster No.: EX1-033
Upregulation of Teneurin-2 Transcript in the Conjunctival Epithelium of Stevens-Johnson Syndrome Patients in the Chronic Stage
First Author: Mayumi UETA
Co-Author(s): Shigeru KINOSHITA, Hiromi NISHIGAKI, Suzuki OHSAKO, Chie SOTOZONO, Norihiko YOKOI

Poster No.: EX1-034
Femtosecond Laser-Assisted Conjunctival Autograft Preparation for Pterygium Surgery
First Author: Yu-Chi LIU
Co-Author(s): Kavya DEVARAJAN, Jodhbir MEHTA

Poster No.: EX1-035
Clinical Evaluation of a New Enhanced Viscosity Eye Drop for Moderate to Severe Dry Eye Disease: A Multicenter, Double-Masked, Randomized 30-Day Study
First Author: Sameena HAQUE
Co-Author(s): David DOUGLASS, Christopher LIEVENS, Peter SIMMONS, Joseph VEHIGE

Poster No.: EX1-036
Clinical Evaluation of a Novel Lipid-Containing Lubricant Eye Drop with Omega-3 Oil and Trehalose
First Author: Sameena HAQUE
Co-Author(s): Cindy CARLISLE-WILCOX, Haixia LIU, Peter SIMMONS, Joseph VEHIGE

Poster No.: EX1-037
Effect of 3 Common Ophthalmic Solutions on Silicone Hydrogel Lens Material Senofilcon A Investigated In Vivo and In Vitro
First Author: Sara DE LIMA

Poster No.: EX1-038
Minor Ipsilateral Simple Limbal Epithelial Transplantation Technique for Pterygium
First Author: Karan BHATIA
Co-Author(s): Shilpa MALEO, Ruchita MANAKTALA, Aniket SHASTRI, Ronak SOLANKI, Keerti WALI

Poster No.: EX1-039
Keratoconus in Down Syndrome: More Common Than Anticipated
First Author: Joyce MATHAN
Co-Author(s): Akilesh GOKUL, Charles McGHEE, Jay MEYER, Dipika PATEL, Samantha SIMKIN

Poster No.: EX1-040
Long-Term Outcomes of the Combined Therapy of COMET and Keratoplasty
First Author: Seitaro KOMAI
Co-Author(s): Tsutomu INATOMI, Shigeru KINOSHITA, Noriko KOIZUMI, Takahiro NAKAMURA, Chie SOTOZONO

Poster No.: EX1-041
Anti-Inflammatory Effects of Flavonones-Derived Material Isolated from Glycyrrhiza uralensis in Dry Eye Diseases
First Author: Hong KIM
Co-Author(s): Dongju KIM, Jeongho KIM

Poster No.: EX1-042
Bilateral Pthiriasis Palpebrarum: A Case Report
First Author: Kristine PORMIDA
Co-Author(s): Pia Regina GALVANTE, Richard NEPOMUCENO, Reynaldo SANTOS

Poster No.: EX1-043
Medical Management of Extraocular Cysticercosis: Promising Results of Topical Cyclosporine. A Case Report
First Author: Manmeet SINGH
Co-Author(s): Akhil AGARWAL, Amrita BAJPAI, Neelima MEHROTRA

Poster No.: EX1-044
Alteration of Ocular Higher-Order Aberrations After Orthokeratology Lens Wear
First Author: Jae Yong KIM
Co-Author(s): In Kyun HAHN, Dong Ho LEE, Hungwon TCHAH

Poster No.: EX1-045
HSV-1 Detection in Primary Keratoplasty and Failed Graft Corneal Buttons
First Author: Shahzan ANJUM
Co-Author(s): Seema KASHYAP, Anjana SHARMA, Namrata SHARMA, Seema SEN

Poster No.: EX1-046
The Role of Rigid Gas Permeable Contact Lens in Improving Visual Acuity in a Patient with Bilateral Corneal Scars
First Author: Veda PUTRI
Co-Author(s): Tri RAHAYU

Poster No.: EX1-047
Tenon Patch Graft: An Eye-Saving Procedure
First Author: Muhammad RAHMAN

Poster No.: EX1-048
Effectiveness of Topical Olopatadine 0.1% and Sodium Cromoglycate 2% in Vernal Keratoconjunctivitis
First Author: Sabina BIJUKACHHE
Co-Author(s): Amrit ACHARYA, Aparajita MANORANJAN

Poster No.: EX1-049
Allergic Conjunctivitis in Children of Hong Kong: Association with Environmental and Socioeconomic Factors
First Author: Mei Kwan YIU
Co-Author(s): Arnold Shau Hei CHEE, Ka Wai KAM, Calvin PANG, Jason YAM, Alvin YOUNG

Poster No.: EX1-050
Peripheral Ulcerative Keratitis Caused by Suspected Relapsing Polychondritis
First Author: A aryatika ALAM
Poster No.: EX1-051
Outcome of Deep Anterior Lamellar Keratoplasty for Infectious Keratitis
First Author: Pham NGOC DONG
Co-Author(s): Nguyen Xuan HIEP, Nguyen THE HONG, Le XUAN CUNG

Poster No.: EX1-052
The Use of Bandage Contact Lens for Epithelial Healing in Corneal Epithelial Defect: Literature Review
First Author: Miratasya KASIM
Co-Author(s): Umar MARDIANTO

Poster No.: EX1-053
Accuracy and Reliability of the Ocular Surface Index in Thai for Identifying Dry Eyes Among the Thai Population
First Author: Prodpnan RIJANA
Co-Author(s): Narisara KLANARONGRAN, Manapon LEKSUL, Wiwan SANSANAYUDH, Theeratep TANTAVAKOM

Poster No.: EX1-054
Comparative Study of Culture of Mammalian Corneal Epithelial Cells on Indigenously Developed Biodegradable Polymer Membrane vs Human Amniotic Membrane
First Author: Tushar AGARWAL

Poster No.: EX1-217
Clinical Characteristics and Associated Risk Factors of Mycotic Keratitis Resulting in Evisceration and Enucleation
First Author: Wanpiya SRIPTATHANGKURA
Co-Author(s): Orapin ANUTARAPONGPAN, Olan SUWAN-APICHON, Onsiri THANATHANEE, Jittaporn WORRAWITCHAWONG, Patanaree LUANRATANAKORN

Glaucoma

Poster No.: EX1-055
Anterior and Posterior Segment Structural Features of Acute Primary Angle-Closure Eyes
First Author: Wenbin HUANG
Co-Author(s): Fei LI, Xiulan ZHANG

Poster No.: EX1-056
Decreased Orbital Fat and Enophthalmos Due to Bimatoprost: Quantitative Analysis Using Magnetic Resonance Imaging
First Author: Tomoaki HIGASHIYAMA
Co-Author(s): Masashi KAKINOKI, Takayuki MINAMIKAWA, Masahito OHJI, Osamu SAWADA

Poster No.: EX1-057
Progression of Primary Glaucoma in Malays: Survival Analysis Outcome
First Author: Diana Toh SHI JIN
Co-Author(s): Liza Sharmini AHMAD TAJUDIN, Yaakub NAJIB MAJDI, Bachok NOR SA’ADAH, Wan Masri WAN EZATUL ARISHA

Poster No.: EX1-058
Central Retinal Venous Pressure in Asymmetric Primary Open Angle Glaucoma
First Author: Lutz PILLUNAT
Co-Author(s): Clemens CARL, Karin PILLUNAT

Poster No.: EX1-059
Incidence of Glaucoma Among Healthy People in Lampang Province (Northern Thailand)
First Author: Lerprat MANGKORNKANOKPONG

Poster No.: EX1-060
Automatic Differentiation of Glaucoma Visual Field from Nonglaucoma Visual Field Using Deep Convolutional Neural Network
First Author: Fei LI
Co-Author(s): Wenbin HUANG, Xiulan ZHANG

Poster No.: EX1-061
Evaluation of the iPad “Visual Fields Easy” as Mobile Visual Field Test for Glaucoma Patients
First Author: Jingjing HUANG
Co-Author(s): Miaomiao DAI, Jianan XU

Poster No.: EX1-062
Prediction for Effectiveness of Unilateral Selective Laser Trabeculoplasty for the Untreated Fellow Eye of Primary Open-Angle Glaucoma Patients
First Author: Xiang FAN
Co-Author(s): Ling-Ling WU

Poster No.: EX1-063
Factors Associated with the Risk of Obstructive Sleep Apnea in Patients with Open-Angle Glaucoma
First Author: Dhashani SIVARATNAM
Co-Author(s): Nur Fattin ABDUL KHANI, Vanessa Mei Yi CHEN, Alistair Chen Yin CHEW, Navin Kumar DEVARAJ, A.r ROSNIZA

Poster No.: EX1-064
Effect of Phacoemulsification with Intraocular Lens Implantation on Long-Term Intraocular Pressure Fluctuation in Patients with and without Glaucoma
First Author: Yarnarin PAPASSORNSIRI
Co-Author(s): Anita MANASSAKORN, Prin ROJANAPONGPUN, Visanee TANTISEVI

Poster No.: EX1-065
Optic Disc Pit Presenting as Visual Field Scotoma and Macular Retinoschisis
First Author: Ju CHENG

Poster No.: EX1-066
A New Outlook in Detection of Glaucoma Progression: RNFL in Trend-Based Progression Analysis of Glaucoma
First Author: Leo Ka Yu CHAN
Co-Author(s): Alexander Ka Ngai LAM, Christopher LEUNG, Ken WU
Intraocular Inflammation, Uveitis & Scleritis

Poster No.: EX1-076
An Unusual Case of Varicella Zoster Virus Retinitis After Herpes Zoster Infection in an Immune-Competent Patient
First Author: Caius GOH

Poster No.: EX1-077
Inflammatory Choroidal Neovascular Membrane Associated with Vogt-Koyanagi-Harada Disease in Active and Chronic Stage: A Retrospective Study
First Author: Hitesh AGRAWAL
Co-Author(s): Rajeev REDDY, Murid TYAGI

Poster No.: EX1-078
Reactivation of Bilateral Acute Retinal Necrosis on Systemic Antiviral Therapy in a Post Kidney Transplant Patient
First Author: Natcha JINTAGANON
Co-Author(s): Thanapong SOMKIJRUNGROJ, Budsarat SULEESATHIRA

Poster No.: EX1-079
Overlap Syndrome as a Cause of Posterior Uveitis: A Rare Case Presentation
First Author: Krishna RAGHU
Co-Author(s): Radha K.Annamalai ANNAMALAI, Debolina DEB, Ansu JOHN, Meera MOHANAKUMAR, M MUTHIAH

Poster No.: EX1-080
Ocular Morbidity with the Help of CD4 Cell Count in HIV Patients
First Author: Vinod SINGH
Co-Author(s): Basant KUMAR SINGH, Arun SINGH, Satya SINGH

Poster No.: EX1-081
Vasculitic Vein Occlusion with Central Serous Chorioretinopathy
First Author: Awaneesh UPADHYAY
Co-Author(s): Pritam BAWANKAR, Dipankar DAS, Chintan DESAI, Diva MISRA, Ronel SOIBAM

Poster No.: EX1-082
Clinical Profile of Bilateral Acute Retinal Necrosis: 20 Years’ Consecutive Data
First Author: Parthopratim DUTTA MAJUMDER
Co-Author(s): Jyotirmay BISWAS, Sudha GANESH, Kowsigan MAGESAN

Neuro-Ophthalmology

Poster No.: EX1-083
Visual Acuity Recovery in Bilateral Optic Neuritis and Epileptic Seizure Associated with Japanese Encephalitis Vaccination
First Author: Luh MAHARANI
Co-Author(s): Ign SUWARBA, Anak Agung Mas TRINIRAT, Dian MEGA
Ocular Imaging

Poster No.: EX1-094
Innovative Use of Android App to Measure Lesions on Slitlamp, Fundus, and Gross Ophthalmic Smartphone Photographs
First Author: John AKKARA
Co-Author(s): Davis AKKARA, Ethamma DAVIS, Anju KURIAKOSE

Poster No.: EX1-095
Comparison of Repeatability of Swept-Source and Spectral-Domain Optical Coherence Tomography for Measuring Inner Retinal Thickness in Retinal Disease
First Author: So Jung RYU
Co-Author(s): Hee Yoon CHO, Eun Hee HONG, Yong Un SHIN

Poster No.: EX1-096
Comparison of Accuracy of Measured Values in Sitting Position OCT and Supine Position OCT Under General Anesthesia in the Same Child
First Author: Kinei RA

Poster No.: EX1-097
Enabling Choroidal Neovascularization to be Visible: OCT Angiography Imaging of Neovascular AMD
First Author: Paul MITCHELL
Co-Author(s): Gemmy Chui Ming CHEUNG, Gerald LIEW, Tien-Yin WONG

Poster No.: EX1-098
A Tale of Two 3D-Printed Smartphone Fundus Cameras: How to Make and Use Them
First Author: John AKKARA
Co-Author(s): Davis AKKARA, Ethamma DAVIS, Anju KURIAKOSE, Prasanth GIREESH

Poster No.: EX1-099
A Novel Technique to Assess Severity of Diabetic Retinopathy Using Optical Coherence Tomography Angiography
First Author: Li KELVIN
Co-Author(s): Colin TAN, Darren WONG

Poster No.: EX1-100
Three Cases of Taxane-Induced Macular Edema: Multimodal Imaging and Treatment Outcomes
First Author: Joel PEREZ
Co-Author(s): Kb FREUND, Anna Cs TAN, Maiko INOUE

Poster No.: EX1-101
Choroidal Thickness Measurements Using Enhanced Depth Imaging on Optical Coherence Tomography in Retinal Vein Occlusion
First Author: Chintan DESAI
Co-Author(s): Manabijoti BARMAN, Diva MISRA, Ronel SOIBAM, Awaneesh UPADHYAY, Hemlata DEKA

Poster No.: EX1-084
Ophthalmic Manifestation of Vein of Galen Malformation: A Rare Presentation
First Author: Priyadharshini PALANIYAPPAN
Co-Author(s): Debolina DEB, Mary Santhosh JOSEPH, Ansu JOHN, Santhosh JOSEPH, Baghya LAKSHMI

Poster No.: EX1-085
Ophthalmic Manifestation of Vein of Galen Malformation: A Rare Presentation
First Author: Priyadharshini PALANIYAPPAN
Co-Author(s): Debolina DEB, Mary Santhosh JOSEPH, Ansu JOHN, Santhosh JOSEPH, Baghya LAKSHMI

Poster No.: EX1-086
Proptosis in Cavernous Sinus Thrombosis Masquerading as Orbital Cellulitis
First Author: Ni Luh NATALIA
Co-Author(s): Juliari I GUSTI AYU MADE, la Sri INDRAYANI, Anak Agung Mas TRININGRAT, Kumara TINI

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First Author: Fadli RAFIKA
Co-Author(s): Syntia NUSANTI, Mohamad SIDIK

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First Author: Deepa MUGALI
Co-Author(s): Kavita Salagar SALAGAR

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Bilateral Lagophthalmos of Borderline Tuberculoid Leprosy: A Case Report
First Author: Debolina DEB, Ansu JOHN, Priyadharshini PALANIYAPPAN, Krishnima RAGHU, Saranya DEVI K

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Clinical Features of Nonarteritic Anterior Ischemic Optic Neuropathy Patients Attending the Neuro-Ophthalmology Department of a Tertiary Eye-Care Hospital in Bangladesh
First Author: Tanima ROY

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A Unique Presentation of Atypical Optic Neuritis: Challenge in Diagnosis and Management
First Author: Joshua LUMBANTOBING
Co-Author(s): Syntia NUSANTI, Emil SJAHERZA

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Efficacy of Adding Erythropoietin to Intravenous Methylprednisolone as a Treatment for Optic Neuritis: A Systematic Review
First Author: Nur RAHMAWATI
Co-Author(s): Syntia NUSANTI, Nizma PERMAISUARI, Fabianto SANTOSO

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Endovascular Coiling Embolization in Direct Carotid-Cavernous Fistula: A Literature Review
First Author: Yulika HARNIZA
Co-Author(s): Syntia NUSANTI, Jacob PANDELAKI

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Ophthalmic Manifestation of Vein of Galen Malformation: A Rare Presentation
First Author: Priyadharshini PALANIYAPPAN
Co-Author(s): Debolina DEB, Mary Santhosh JOSEPH, Ansu JOHN, Santhosh JOSEPH, Baghya LAKSHMI

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Ophthalmic Manifestation of Vein of Galen Malformation: A Rare Presentation
First Author: Priyadharshini PALANIYAPPAN
Co-Author(s): Debolina DEB, Mary Santhosh JOSEPH, Ansu JOHN, Santhosh JOSEPH, Baghya LAKSHMI
Ocular Oncology & Pathology

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First Author: Abhishek ONKAR
Co-Author(s): Pooja CHOUDHARY, Arvind MORYA, Meenakshi RAO, Hemant RATHOD, Saurabh SAMDARIYA

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First Author: Hussain KHAQAN

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Co-Author(s): Nuryati SIREGAR, Evy YUNIHASTUTI

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First Author: Hitesh AGRAWAL
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Co-Author(s): Yuen Ting KWOK, Stacey LAM, Hunter YUEN

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Co-Author(s): Arvind BABU, Priyadharshini PALANIYAPPAN, Suhas PRABHAKAR, M RADHAKRISHNAN, Krishnima RAGHU

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First Author: Hiroki MASUMOTO, Hitoshi TABUCHI

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First Author: Kaye Lani Rea LOCAYLOCAY
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Co-Author(s): Miao Li CHEE, Ching-Yu CHENG, Yih-Chung THAM, Tien WONG, Hua Zhong

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First Author: Md.shafiqul ISLAM

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Co-Author(s): Sharmin AHMED, Md.Ismail HOSSAIN, Hasan JAWAD, Syed KADIR, Mukti MITRA

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First Author: Varun SAINI
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First Author: Le LIEU

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Co-Author(s): Mohammad MUSTAFA HOSSAIN

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Co-Author(s): Gong HUI, Dennis LAM

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First Author: Devesh KUMAWAT
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First Author: Tosaporn YODMUANG

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Co-Author(s): Zabri BIN KAMARUDIN, Jane FOO

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Ocular Injuries from Fireworks: The 5-Year Experience of a Tertiary Eye Care Center in India
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Co-Author(s): Harsha BHATTACHARJEE, Debajit DEKA, Krati GUPTA, Henal JAVIERI

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First Author: Noriaki TAKASE
Co-Author(s): Aki KATO, Soichiro KUWAYAMA, Yuichiro OGURA, Hideaki USUI, Tsutomu YASUKAWA

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Clinical Trial of Dexamethasone Intravitreal Implant and Intravitreal Bevacizumab vs Intravitreal Bevacizumab for Diabetic Macular Edema
First Author: Kuidong KANG
Co-Author(s): Su Ah KIM

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Combined Central Retinal Vein, Central Retinal Artery, and Cilioretinal Artery Occlusion with Ischemic Macular Hole Secondary to Severe Orbital Cellulitis After Black Fly Bite
First Author: Narumon KEOROCHANA
Co-Author(s): Raveewan CHOONTANOM, Sritatath VONGKULSIRI

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Association Between Intravitreal Ranibizumab Therapy and Serum Cytokine Concentrations in Patients with Diabetic Macular Edema
First Author: Sanjeewa WICKREMASINGHE
Co-Author(s): Esther BANDALA-SANCHEZ, Leonid CHURIVOLO, Lyndell LIM, Sukhpal Singh SANDHU

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First Author: Hayatulrizal MUHAMMAD
Co-Author(s): Martina Vendargon FRANCESCA, Gayathri GOVINDASAMY, Nagamuthu PRAGALATH

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Evaluation of the Visual Function Test of Central Serous Chorioretinopathy After Intravitreal Bevacizumab
First Author: Chunu SHRESTHA
Co-Author(s): Sabina BIJUKACHHE

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First Author: Siti Zaithani HAMDAN
Co-Author(s): Hanizasurana HASHIM, NorAin RAWI

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Going Green: Treatment Outcome and Safety Profile of Chronic Central Serous Chorioretinopathy Treated with Subthreshold Green Laser
First Author: Anadi KHATRI K C

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First Author: Yin-Yang LEE
Uncommon Presentation of Central Serous Chorioretinopathy with Branch Retinal Vein Occlusion
First Author: Awaneesh UPADHYAY
Co-Author(s): Pritam BAWANKAR, Chintan DESAI, Pushkar DHIR, Diva MISRA, Ronel SOIBAM

Correlation Between Total Number of Bevacizumab Intravitreal Injections and Treatment Duration with Intraocular Pressure Changes in Neovascular Age-Related Macular Degeneration Patients
First Author: Eka SETYARINI

Assessing Relationship Between Plasma 25-Hydroxyvitamin D Levels and Age-Related Macular Degeneration in Yogyakarta, Indonesia: Final Result
First Author: Supanji SUPANJI
Co-Author(s): Angela AGNI, Muhammad SASONGKO, Dian Caturini SULISTYONINGRUM, Firman WARDHANA, Tri Wahyu WIDAYANTI

Bartonella Neuroretinitis Mimicking Central Serous Chorioretinopathy
First Author: Alex YEE
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Effect of Intravitreal Dexamethasone Implantation in Diabetic Macular Edema Refractory to Intravitreal Anti-Vascular Endothelial Growth Factor Treatment
First Author: Sungrae NOH
Co-Author(s): Eung-Suk KIM, Kiyoung KIM, Jong In YOU, Seung Young YU

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First Author: Bhuvan CHANANA
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Intravitreal Gas Injection for Management of Tractional Diabetic Macular Edema with Central Foveal Cysts
First Author: Roshija KHANAL RIJAL
Co-Author(s): Anadi KHATRI K C, Deepesh MOURYA

Comparison of Temporal Inverted Internal Limiting Membrane Flap Technique with Classic Inverted Internal Limiting Membrane Flap Technique in Large Macular Holes
First Author: Diva MISRA
Co-Author(s): Pushkar DHIR, Ronel SOIBAM, Awaneesh UPADHYAY

Anatomical Closure and Visual Outcomes of Large Idiopathic Macular Holes (Diameter >1000 μm) Surgery Following Inverted Internal Limiting Membrane Flap Technique with Short-Term Follow-Up
First Author: Kiran SHAKYA

Preretinal Glial Membrane with Rock Activation After Internal Limiting Membrane Peeling
First Author: Hideaki USUI
Co-Author(s): Aki KATO, Yuichiro OGURA, Hideyuki SHIMIZU, Hiroko TERASAKI, Tsutomu YASUKAWA

Treatment of Large Macular Holes Using a Multilayered Inverted Internal Limiting Membrane Flap Technique
First Author: Jung Min PARK
Co-Author(s): Soo-Jung LEE, Song DONG HUN

Improved 27-Gauge Flow Performance of Dual-Pneumatic 10,000 cpm Cutters
First Author: Ishaq MOHAMEDY
Co-Author(s): Dina Joy ABULON, Helaine GARIEPY

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First Author: Atsuhide TAKESUE
Co-Author(s): Toshiyuki YOKOTAMA

Vitreoretinal Intervention for Submacular Hemorrhage: Experience at Department of Ophthalmology, Hospital Selayang
First Author: Seng Hong YEOH
Co-Author(s): Norlelawati ZAINOL

Postoperative Endophthalmitis: Intravitreal Antibiotics vs Early Vitrectomy
First Author: Vinod SINGH
Co-Author(s): Basant KUMAR SINGH, Arun SINGH, Satya SINGH

Efficacy of Pars Plana Vitrectomy with Conventional Internal Limiting Membrane for Large Macular Hole
First Author: Sukita JUMPAWONG
Co-Author(s): Tanapat RATANAPAKORN, Supat SINAWAT, Suthasinee SINAWAT, Yosanan YOSPAIBOON
Effectiveness of Prophylactic 360° Laser Retinopexy in Complicated Rhegmatogenous Retinal Detachment
First Author: Putthigorn PROMMAJAREE
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Co-Author(s): Guruprasad AYACHIT, Apoorva AYACHIT, Amit RAJAN, Pavan SHROFF

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First Author: Lee Jerome III BRIONES, Mark Anthony T IMPERIAL

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First Author: Adrian FUNG
Co-Author(s): Samantha BOBBA, Jay CHANDRA, Jane FOO, Christopher GO

Endophthalmitis After Pars Plana Vitrectomy in a Thai Population: A 13-Year Retrospective Study
First Author: Sukhum SILPA-ARCHA
Co-Author(s): Kwanchanoke KUMSIANG

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First Author: Kazuhiro TAKAO
Co-Author(s): Tsutomu IGARASHI, Maika KOBAYASHI, Takashi OKADA, H TAKAHASHI, Kazuhisa TAKAHASHI

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First Author: Bonnie Nga Kwan CHOI
Co-Author(s): Joseph KWAN, Jimmy LAI, Chun Sum PANG, Mingming ZHU

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First Author: Mao TAKAHASHI
Co-Author(s): Tomoaki SHIBA
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First Author: Saksakul ENGCHUAN
Co-Author(s): Charaspong UBOLSING

Cultural Competence as a Driver of Good Quality Care
First Author: Noela PRASAD

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Clinical Outcomes and Comparison of Phakic IOLs Using Implantable Contact Lens and Implantable Collamer Lens
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Combined Small Incision Lenticule Extraction with Accelerated Cross-Linking Using 2 Different Low-Energy Irradiation Protocols: A Comparison Study
First Author: Alex Lap Ki NG
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Corneal Stromal Augmentation Followed by Toric Phakic Intraocular Lens Implantation in Advanced Non-Scarred Keratoconic Eyes: A Conceptual Analysis
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Dynamic Accommodative Changes in Macaque Non-Human Primate Eyes Following Laser Scleral Microporation
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Early Clinical Trial Results of Laser Scleral Microporation in Presbyopic Asian Eyes
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Evaluating the Changes of Biological Parameters of Rhesus Eye After Blue Light Scleral Cross-Linking In Vivo
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Femto-Assisted Crosslinking in Dampening Progression of Keratoconus: A Longitudinal Study
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Five-Year Results of Refractive Lenticule Extraction ReLEx SMILE Compared to Femto-LASIK
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Long-Term Assessment of Visual and Refractive Outcome of Laser In Situ Keratomileusis for High Hyperopic Patients
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Modified Monovision for Presbyopia Treatment Using PresbyMAX Hybrid  
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Visual Acuity, Endothelial Cell Density, and Polymegathism After Iris-Fixated Lens Implantation  
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Visual Outcome and Contrast Sensitivity After Photorefractive Keratectomy in Low to Moderate Myopia: Wavefront-Optimized Versus Conventional Methods  
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Retina (Medical)

1-Year Outcome of Polypoidal Choroidal Vasculopathy with Vision Better Than 20/40  
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A Rare Case of Vaso-Oclusive Retinopathy in Systemic Lupus Erythematosus  
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Automated Detection of a Nonperfusion Area in Optical Coherence Tomography Angiography Images Using Deep Learning  
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Changes in Systemic Oxidative Stress in Response to Intravitreal Anti-VEGF Therapy for Patients with Retinal Vein Occlusion  
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Clinical Efficacy of the Treat and Extend Method Combining Intravitreal Aflibercept and Retinal Photocoagulation for the Treatment of Diabetic Macular Edema  
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Clinical Outcome of Anti-Vascular Endothelial Growth Factor in Diabetic Macular Edema: A Comparative Study Between Ranibizumab and Bevacizumab  
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Combined Central Retinal Artery and Vein Occlusion as the Presenting Manifestation of Systemic Lupus Erythematosus  
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Concurrent Chronic Central Serous Chorioretinopathy and Pachychoroid Pigment Epitheliopathy in Fellow Eyes  
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Efficacy and Safety of Oral Spironolactone for Treatment of Central Serous Chorioretinopathy
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Elevation of Vitreous Body Concentrations of Oxidative Stress-Responsive Apoptosis Inducing Protein in Diabetic Retinopathy
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Evaluation of Choroidal Neovascularization Before and After Anti-VEGF Therapy Using OCT Angiography
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Functional and Anatomical Effect of Intravitreal Dexamethasone Implant in Treatment of Refractory Cystoid Macular Edema Secondary to Retinal Vein Occlusion
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Incidence of Endophthalmitis Following Intravitreal Injections
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Intravitreal Triamcinolone Acetonide Efficacy After Failed Bevacizumab Injection to Treat Macular Edema in Ischemic Central Retinal Vein Occlusion: A Case Report
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Preoperative Timing of Intravitreal Bevacizumab Injection for Proliferative Diabetic Retinopathy Patients
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Role of Oral Rifampicin in Chronic Central Serous Chorioretinopathy
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The Association of Body Mass Index with Age-Related Macular Degeneration in Yogyakarta, Indonesia
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Unusual Retinal Presentation in a Young Adult with Progeria
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Usual Presentation of Unusual Scenario: Angiod streaks: A Case Report
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Visual Acuity and Central Macular Thickness Outcome in Intravitreal Bevacizumab Treated Neovascular Age-Related Macular Degeneration Patients with Subretinal Fluid Compared to Those with Intraocular Fluid
First Author: Novia RAHAYU
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Whole-Exome Sequencing Analysis Identifies the Causative Genes in Retinitis Pigmentosa: Case Series in the Thai Population
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Retina (Surgical)

23-Gauge Buffered Saline Solution Flow of Dual-Pneumatic 10,000 cpm Vitrectomy Probes
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27-Gauge Vitrectomy and Adjunctive Intravitreal Conbercept in the Management of Proliferative Diabetic Retinopathy
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27-Gauge Vitreous Traction Comparison: Dual-Cutting vs Single-Cutting Vitrectomy Probes
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Clinical Features and Surgical Outcomes of Pseudophakic Retinal Detachment
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Comparative Vitreous Traction of 27-Gauge High-Speed Dual-Pneumatic Vitrectomy Probes
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Conventional ILM Peeling vs Inverted ILM Flap for Macular Hole Surgery
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Delayed-Onset Diplopia After Scleral Buckling Surgery with a Hydrogel Implant
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Duty Cycle of 23-Gauge Dual-Pneumatic 10,000 cpm Vitrectomy Probes
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Efficacy of Perfluoropropane Gas (C3F8) in Proliferative Vitreoretinopathy with Inferior Breaks
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Endoscope-Assisted 23-Gauge Vitrectomy for Repair of Retinal Detachment with Grade C Proliferative Vitreoretinopathy
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Higher Male Ratio in Rhegmatogenous Retinal Detachment: 17-Year Surgical Data in Yamanashi, Japan
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Hyperacute Spontaneous Closure of a Traumatic Macular Hole in a Colobomatous Eye
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Internal Limiting Membrane Free Flap Transposition with Tuck Technique for Previously Failed Vitrectomy in Chronic FullThickness Macular Hole
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Intraocular Pressure Changes Following Dropped Nucleus: Our Experience at Hospital Selayang
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Klebsiella Endogenous Endophthalmitis: A Changing Spectrum?
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Late-Onset Retinal Detachment from a Retinal Tear Associated with Laser Indirect Ophthalmoscopy for Retinopathy of Prematurity
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Macular Hole Closure After Surgery with Minimal or No Posturing: OCT-Based Study
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Management of Posterior Segment Retained Intraocular Foreign Body by Pars Plana Vitrectomy
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Microincision Vitrectomy Surgery Results in Metastatic Endophthalmitis
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New OCT Era for Early Stage Macular Hole Follow-Up
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Operative Time and Outcome of Idiopathic Epiretinal Membrane Using Sutureless Microincision Vitrectomy with Noncontact Viewing Systems
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Optic Disc Pit-Related Maculopathy: Simple Approach is Better
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Outcome of Idiopathic FullThickness Macular Hole Surgery: Our Experience at Hospital Selayang
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Outcome of Primary Rhegmatogenous Retinal Detachment Surgery in a Tertiary Eye Referral Center in the Philippines from 2016 to 2017
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Peripapillary Retinoschisis in Patients from Neuropediatric Ophthalmology: a Case Collection
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Primary Inverted Internal Limiting Membrane Surgery for Large Pediatric FullThickness Macular Holes
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Retinal Detachment Due to Paravascular Abnormality-Associated Breaks in Highly Myopic Eyes
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Rhegmatogenous Retinal Detachment in an Adult with Osteogenesis Imperfecta
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Secondary Paracentral Retinal Hole Following Internal Limiting Membrane Peeling for a Large Macular Hole
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Silicone Oil Tamponade Might Assist Macular Hole Closure in Patients with Persistent Macular Hole After Primary Internal Limiting Membrane Peeling and Gas Tamponade
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Sphere of Influence and Fluid Velocity Analysis of 27-Gauge Cutters: 20,000 cpmp Dual-Cutting Probes vs 10,000 cpmp Single-Cutting Probes
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Vitrectomy with Long-Term Silicone Oil Tamponade Without ILM Peeling in the Treatment of Myopic Foveoschisis
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Artificial Identification of Surgical Processes in Cataract Surgery
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Intravitreal Injection of Hydrogen Peroxide Induces Acute Retinal Degeneration, Apoptosis, and Oxidative Stress in Mice
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Laser Spectroscopic Study on Getting Best Results with Trypan Blue Dye Staining of Anterior Lens Capsule
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PEDF Protects Human Retinal Pigment Epithelial Cells Against Oxidative Stress by Upregulating Expression of UCP2
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Visual Sciences

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The Relationship Between Presbyopia and Near Stereoaucuity in Refractive Errors
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Battle Royale Glaucoma! Angle Surgery Training Models for Segmental and Circumferential MIGS
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Nucleus Snap Back Sign: A New Sign to Recognize Incomplete Nucleus Cracking in Phacoemulsification of Hard Cataracts
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Long-Term Outcomes of Ex-Press Glaucoma Filtration Device Implant in Glaucoma Patients
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Outcomes of Trabeculectomy with Ologen Implant vs Trabeculectomy with Mitomycin C
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Phacomorphic Glaucoma After Therapeutic Penetrating Keratoplasty: Management Challenges
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Smartphone Slitlamp Photography and Videography in Glaucoma: Gonioscopy, Fundus by 90D, and Slit Lamp Imaging
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Technique of Innfocus Microshunt (Glaucoma Drainage Device)
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Neuro-Ophthalmology

Posterior Rim Cupping and/or Erosion of the Optic Nerve on 3D OCT of Optic Nerve
First Author: Hamid SAJJADI

Ocular Imaging

Common Misdiagnoses of Polypoidal Choroidal Vasculopathy and Their Distinguishing Imaging Features
First Author: Colin TAN
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Ocular Oncology & Pathology

Managing Cases of Aggressive Periocular Basal Cell Carcinoma Complicated by Larvae of Human Botfly: A Video Presentation
First Author: Virendra P SINGH
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Ocular Surface Squamous Neoplasia Management Options: Not “One Size Fits All”
First Author: Ankit TOMAR
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Pseudoconvergence Refraction Nystagmus in Congenital Fibrosis of the Extraocular Muscles Type 1
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Surgical Approach and Principles for Pediatric Cataract with Persistant Hyperplastic Primary Vitreous
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