



Organizer



THE 14th APVRS CONGRESS

Congress of the Asia-Pacific Vitreo-retina Society

December 11-12, 2021 Virtual
<https://2021.apvrs.org/>

PROGRAM BOOK





Join our panels of leading experts on livestream 1!



nAMD/PCV
symposium

Click or scan the QR codes to add the events to your calendar!



DME
symposium

Achieving benefits for patients through proactive, individualised T&E in nAMD and PCV

Saturday 11 December 2021
18:15–19:15 (SGT; GMT +8)



Anna Tan,
Singapore



Nancy Holekamp,
USA



Diana Do,
USA



Chair:
Andrew Chang
Australia



Chair:
Tien Yin Wong,
Singapore



Neil Bressler*,
USA



Michael Stewart,
USA



Voraporn
Chaikitmongkol,
Thailand

Optimising the management of DME: Improving patient outcomes

Sunday 12 December 2021
12:00–13:00 (SGT; GMT +8)

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Making a real difference in the fight against vision loss

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The Vision Academy Fighting to save sight

The Vision Academy is a unique, independent group of **over 100 world leaders in ophthalmology** across **38 countries**, working to develop knowledge and provide guidance **where none currently exist**.

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- Mentoring the next generation of retinal experts

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Professor Anat Loewenstein
Co-chair, Vision Academy Steering Committee

“ I am proud to be part of this ambitious initiative. The Vision Academy is tackling key issues that no other program is addressing, for the benefit of patients. ”

VISION ACADEMY VIEWPOINTS

Providing insights and clear recommendations for retinal specialists

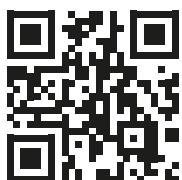
Fundamental Principles of an Anti-VEGF Treatment Regimen¹

Intravitreal anti-VEGF therapy is now considered the standard of care in the treatment of various retinal disorders. As therapy has evolved, so too have the treatment regimens employed by physicians in clinical practice; visual outcomes observed in the real world, however, have typically not reflected those reported in clinical trials. There are several possible reasons for this, including a lack of consensus on how best to administer anti-VEGF therapy and what the aims of treatment should be.



Anti-VEGF Intravitreal Injections in the Era of COVID-19²

There is a strong need to support the ophthalmic community to help guide decision-making during the COVID-19 pandemic, particularly for patients with retinal diseases who are receiving intravitreal injections of anti-VEGF agents. As COVID-19 infection rates accelerate in many countries and vary largely between regions, ophthalmologists must be prepared to respond quickly to the changing epidemic pressure in their local area to ensure that patients receive sight-saving ophthalmic care, while still ensuring the safety of patients and staff.



Monitoring of the Fellow Eye in nAMD³

In nAMD, early detection of the disease is crucial in order to preserve visual function, and the presence of nAMD in one eye is a major risk factor for the development of nAMD in the fellow eye. Regular monitoring of nAMD in both eyes of patients with unilateral disease should be considered standard of care in order to prevent disease progression to bilateral vision loss and preserve patient visual function and quality of life.



Visit www.visionacademy.org to download
our full range of Viewpoints and other resources

VISION ACADEMY VIEWPOINTS

Providing insights and clear recommendations for retinal specialists



The Role of OCT-A in Retinal Disease Management⁴

OCT-A is in clinical use around the world. However, the technology is advancing much faster than the community's understanding of, and experience with, the technique. The Vision Academy aims to raise awareness and provide guidance to the ophthalmic community on the current limitations and potential pitfalls of OCT-A.



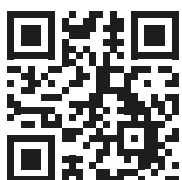
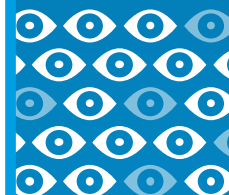
Suspending Treatment of nAMD in Cases of Futility⁵

There is currently no clear consensus on how patients with nAMD who respond poorly to anti-VEGF treatment should be managed. Suboptimal responses to anti-VEGF may be a result of undertreatment or misdiagnosis of the underlying condition, as well as factors that may preclude continued treatment such as injection or drug-related complications.



Management of RPE Tear During Anti-VEGF Therapy⁶

RPE tears are a relatively frequent occurrence in patients with nAMD, and may develop spontaneously or following laser photocoagulation, photodynamic therapy, or intravitreal injection. Visual acuity is frequently poor for these patients in the long term. As the number of patients with nAMD and associated anti-VEGF injections increase, addressing the challenges of preventing and treating RPE tear formation have become increasingly important in order to help preserve visual function in these patients.



Visit www.visionacademy.org to download
our full range of Viewpoints and other resources

4. Rodríguez FJ et al. *Graefes Arch Clin Exp Ophthalmol* 2018; 256 (11): 2019–2026;

5. Wong DT et al. *Retina* 2020; 40 (6): 1010–1020;

6. Mitchell P et al. *Retina* 2021; 41 (4): 671–678.



WELCOME MESSAGES

WELCOME MESSAGE

From Congress President and Asia-Pacific Vitreo-retina Society President



Prof. Chi-Chun LAI

Dear Friends and Colleagues,

On behalf of the Asia-Pacific Vitreo-retina Society (APVRS), it is our greatest pleasure to invite you to the 14th APVRS Congress, which will be held virtually on December 11 – 12, 2021.

The APVRS is committed to promoting cutting-edge innovations and knowledge in the field of vitreo-retina. Despite the obstacles and uncertainties brought by the pandemic, our knowledge exchange, networking and collaboration should not be stopped. I am here proudly announcing that we are moving ahead in the new normal and presenting our first-ever 2-day weekend APVRS virtual congress!

At APVRS 2021 Virtual, you will be able to gain insight into the latest discoveries and innovations in the vitreo-retina field in the comfort of your own home. Echoing the theme “Beyond All Limits”, our world-class scientific contents will be available at your convenience beyond all time zones and geographical limits. All congress content will be accessible on-demand for three months after the congress, so you can attend all the sessions you want at your own pace and re-watch the ones most relevant to you.

Now is the time for unity, for all of us to embrace the unprecedented challenges and opportunities ahead, and to take one big step further in the vitreo-retina field. We look forward to welcoming you to a rewarding and innovative virtual experience!

Chi – Chun Lai

Prof. Chi-Chun Lai

Congress President, APVRS 2021 Virtual
President, Asia-Pacific Vitreo-retina Society (APVRS)

WELCOME MESSAGE

From Scientific Program Committee Chair



Prof. Paisan RUAMVIBOONSUK

Dear Colleagues,

It has been 2 years since our last meeting in Shanghai, and the field of vitreo-retinal diseases has continued to evolve with medical and surgical treatment options and exciting research.

This year, the scientific program features a broad range of subspecialties, addressing the emergence of certain retinal conditions and the latest discoveries and cutting-edge innovations in the vitreo-retinal field.

We are most grateful to have over 100 top-notch retinal specialists from all over the world, who have worked tirelessly to assemble a scientific program of unparalleled quality. Even though we are unable to meet in person this year, the interactive live panel discussion and Q&A allows delegates to communicate with our invited chairs and faculty in real time.

We would be remiss without thanking our sponsors and industry partners who continue to support APVRS 2021 Virtual during this unprecedented time. You are most encouraged to attend the high-quality industry-sponsored symposiums.

Thank you all for your participation and I look forward to seeing you all at APVRS 2021 Virtual!

Prof. Paisan RUAMVIBOONSUK
Chair, Scientific Program Committee
APVRS 2021 Virtual

WELCOME MESSAGE

From Honorary Congress President



Prof. Dennis LAM

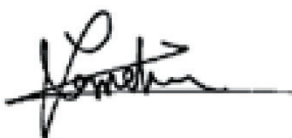
Dear Friends and Colleagues,

As one of the key ophthalmology conferences in the Asia-Pacific region, the APVRS Congress has served as an excellent platform to provide programs to develop skilled ophthalmologists. It attracts leading vitreo-retinal specialists from around the world to share their knowledge and experience.

The global outbreak of Covid-19 has undoubtedly brought many obstacles and uncertainties to everyone. However, where there are challenges, there are also opportunities. The APVRS has risen to the challenge and brings to each of you our first-ever APVRS 2021 Virtual Congress.

With the theme of "Beyond All Limits", the 2-day program will go beyond borders and bring an exceptional scientific event to you! APVRS 2021 Virtual will be a perfect environment to teach, to gain insight into the latest discoveries and innovations in the vitreo-retina field, and most importantly, to identify ways to support our developing countries in the region.

See you all at APVRS 2021 Virtual!

A handwritten signature in black ink, appearing to read 'Dennis LAM', with a horizontal line extending to the right.

Prof. Dennis LAM

Honorary Congress President
APVRS 2021 Virtual

WELCOME MESSAGE

From Asia-Pacific Vitreo-retina Society Secretary-General



A/Prof. Andrew CHANG

Dear Friends and Colleagues,

I would like to extend a very warm welcome to you to the 14th APVRS Congress, held virtually on December 11 – 12, 2021.

The APVRS Congress has become more prominent on the international stage, bringing together ophthalmologists from around the world to explore and share the latest clinical, scientific, and research discoveries and developments in the field of vitreo-retina. This exchange is of utmost importance as it creates collaborative opportunities and builds a closer ophthalmic community!

On behalf of APVRS, I would like to convey our deepest gratitude to Prof. Paisan Ruamviboonsuk, our Scientific Program Chair, and the star-studded Scientific Program Committee, for their dedication and contribution in organizing a world-class and compelling scientific program.

Above all, I would also like to express our heartfelt thanks to each of you for your very kind support and participation. At the time of writing, we have over 1,500 registered delegates from 40+ countries.

I do very much hope you will enjoy this virtual Congress, before we can all meet one another in person, hopefully very soon.



A/Prof. Andrew CHANG

Secretary-General, Asia-Pacific Vitreo-retina Society (APVRS)

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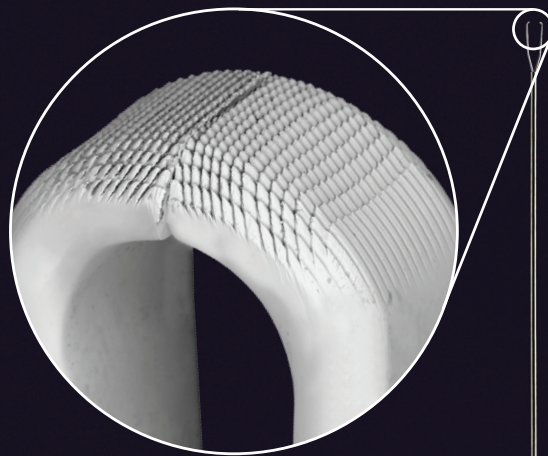
*For further information, please refer to the Constellation and NGENUITY® Directions for Use.

1. Davison JA, Cumulative tip travel and implied follow ability of longitudinal and torsional phacoemulsification J Cataract Refract Surg 2008; 34:986-990 2. Fernández de Castro, L. E. et al. (2010). Bead-flow pattern: Quantization of fluid movement during torsional and longitudinal phacoemulsification. J Cataract Refract Surg 36(6): 1018-1023. 3. Nagpal M, et al. Comparison of clinical outcomes and wound dynamics of sclerotomy ports of 20, 25, and 23 gauge vitrectomy. Retina. 2009;29(2):225-231 4. Data on file. Alcon Laboratories Inc; May 2017 (970-8120-115). 5. Data on file. Alcon Laboratories Inc; February 2018 (954-2120-109). 6. Data on file. Alcon Laboratories Inc; November 2017 (954-2120-101). 7. Riemann C, et al. Prevention of intraoperative hypotony during vitreoretinal surgery: an instrument comparison. ASRS Poster Presentation, 2010. 8. Claes, et al. Clinical and laboratory evaluation of valved cannulas. EVRS Presentation, 2010. 9. Alcon data on file 954-0000-004.

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References: 1. Data on File. Alcon Laboratories Inc; May 2018. 2. Data on File. Alcon Laboratories Inc; September 2017.

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References: 1. Data on file. Alcon Laboratories Inc; May 2017 (970-8120-115). 2. Data on file. Alcon Laboratories Inc; February 2018 (954-2120-109).
3. Data on file. Alcon Laboratories Inc; November 2017 (954-2120-101).**

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** Laboratory assessment

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COUNCIL AND COMMITTEES

HOSTS



The Asia-Pacific Vitreo-retina Society (APVRS) was founded in 2006 with the mission to assist in the development of the vitreo-retinal subspecialty in the Asia-Pacific region, to provide a platform for good integration of skills and knowledge of vitreo-retinal specialists, and to promote and disseminate eye care information about vitreo-retinal diseases and related issues to the general public.

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Chair



Paisan
RUAMVIBOONSUK
(Thailand)

Symposium		International		Asia-Pacific		Secretary
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Telemedicine, Artificial Intelligence, and Digital Innovation for Retinal Diseases		Usha Chakravarthy (UK)		Paisan Ruamviboonsuk (Thailand)		Daniel Ting (Singapore)
Pearl for Surgical Retina		Dennis Lam (HK)		Masahito Ohji (Japan)		Adrian Fung (Australia)
Diabetic Retinopathy and Retinal Vascular Diseases		Tien-Yin Wong (Singapore)		Seung Young Yu (South Korea)		Raymond Wong (HK)
Pathologic Myopia		Hiroko Terasaki (Japan)		Tzyy-Chang Ho (Chinese Taipei)		Xiaoling Liang (China)
Innovation and Controversies in Surgical Retina		Andrew Chang (Australia)		Taraprasad Das (India)		Kenneth Fong (Malaysia)

COUNCILS AND COMMITTEES

Symposium	International	Asia-Pacific	Secretary
Intraocular Tumors	 <p>Martine Jager (Netherlands)</p>	 <p>Harvey Uy (Philippines)</p>	 <p>Peiquan Zhao (CH)</p>
Pediatric Retina: Epidemiology, Screening, Diagnosis and Treatment	 <p>Peter Campbell (US)</p>	 <p>Rajvardhan Azad (India)</p>	 <p>Wei-Chi Wu (Chinese Taipei)</p>
Updates on Retinal Imaging	 <p>Giovanni Staurenghi (Italy)</p>	 <p>Xiaoxin Li (China)</p>	 <p>Gemmy Cheung (Singapore)</p>
Uveitis & Ocular Inflammation Management and Pearl for Diagnosis	 <p>William Mieler (US)</p>	 <p>Lyndell Lim (Australia)</p>	 <p>Timothy Lai (HK)</p>

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Paisan RUAMVIBOONSUK Thailand

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Lin LU	China	Joo-Yong LEE	Korea, Republic of
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Executive Officer
Winnie HO

Project Coordinator
Nancy NG

Special Appreciation for APAO Secretariat

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APVRS VIRTUAL CONGRESS 2021

Sunday 12th December 2021

Management of Diabetic Macular Edema and Retinal Vein Occlusion in Clinical Practice

15:45 – 15:47 **Welcome & introductions**

Anat Loewenstein (Israel)

15:47 – 15:59 **Practical management of DME from recent real-life studies**

Matias Iglicki (Argentina)

15:59 – 16:11 **Suitable naïve versus pre-treated DME patients**

Javier Zarranz Ventura (Spain)

16:11 – 16:23 **Early switch versus late switch in DME**

Jorge Ruiz Medrano (Spain)

16:23 – 16:35 **In the hands of the expert
– what do we know about safety management?**

Laurent Kodjikian (France)

16:35 – 16:44 **12 years' experience in RVO**

Marc D de Smet (Switzerland)

16:44 – 16:45 **Close**

Presentations are in relation to Allergan products

DME – Diabetic Macular Edema

RVO – Retinal Vein Occlusion

Promotional symposium organised and funded by Allergan, an AbbVie company.

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The background is a teal color with a faint world map and a network of white lines connecting various points. A large, semi-transparent blue rectangle is positioned in the upper right corner, containing the title text.

PROGRAM AT A GLANCE

PROGRAM OVERVIEW

GMT+ 8	Dec 11 (Day 1 Saturday)		Dec 12 (Day 2 Sunday)	
	Livestream 1	Livestream 2	Livestream 1	Livestream 2
12:00 - 12:20	Opening Ceremony Tano Lecture (12:00 - 12:20)		Sponsored Symposium (12:00 - 13:00)	Sponsored Symposium (12:00 - 13:00)
12:20 - 13:00	Plenary Session (12:20 - 13:00)			
13:00 - 13:15	Break	Break	Break	Break
13:15 - 14:15	Scientific Session (13:15 - 14:15)	Scientific Session (13:15 - 14:15)	Scientific Session (13:15 - 14:15)	Scientific Session (13:15 - 14:15)
14:15 - 14:30	Break	Break	Break	Break
14:30 - 15:30	Scientific Session (14:30 - 15:30)	Scientific Session (14:30 - 15:30)	Scientific Session (14:30 - 15:30)	Scientific Session (14:30 - 15:30)
15:30 - 15:45	Break	Break	Break	Break
15:45 - 16:45	Sponsored Symposium (15:45 - 16:45)	Sponsored Symposium (15:45 - 16:45)	Sponsored Symposium (15:45 - 16:45)	Sponsored Symposium (15:45 - 16:45)
16:45 - 17:00	Break	Break	Break	Break
17:00 - 18:00	Scientific Session (17:00 - 18:00)	Scientific Session (17:00 - 18:00)	Scientific Session (17:00 - 18:00)	Scientific Session (17:00 - 18:00)
18:00 - 18:15	Break	Break	Break	Break
18:15 - 19:15	Sponsored Symposium (18:15 - 19:15)	Sponsored Symposium (18:15 - 19:15)	Sponsored Symposium (18:15 - 19:15)	Sponsored Symposium (18:15 - 19:15)
19:15 - 19:30	Break	Break	Break	Break
19:30 - 20:30	Scientific Session (19:30 - 20:30)	Scientific Session (19:30 - 20:30)	Constable Lecture International Award Lecture Closing Ceremony (19:30 - 20:30)	
20:30 - 20:45	Break	Break		
20:45 - 21:45	Sponsored Symposium (20:45 - 21:45)	Sponsored Symposium (20:45 - 21:45)		
21:45 - 22:00	Break	Break		
22:00 - 23:00	Scientific Session (22:00 - 23:00)	Scientific Session (22:00 - 23:00)		

SCIENTIFIC SESSIONS

December 11, 2021 (Sat)				
Time	Livestream	Subspecialty	Presentation Type	Theme
12:00 - 12:20	Livestream 1	Social Program and Award Lecture	Special Lectures	Opening Ceremony cum Tano Lecture
12:20 - 13:00	Livestream 1	General Ophthalmology	Symposium	Plenary Session – Cutting Edge Retina 2021
13:15 - 14:15	Livestream 1	Retina (Medical)	Symposium	Diabetic Retinopathy and Retinal Vascular Diseases
13:15 - 14:15	Livestream 2	Ophthalmic Epidemiology	Symposium	Pathologic Myopia
14:30 - 15:30	Livestream 1	Retina (Surgical)	Symposium	Innovation and Controversies in Surgical Retina
14:30 - 15:30	Livestream 2	Retina (Surgical)	Free Paper	Rapid Fire Retina (Surgical) Session
15:45 - 16:45	Livestream 1	General Ophthalmology	Symposium	Allergan Sponsored Symposium 1
15:45 - 16:45	Livestream 2	General Ophthalmology	Symposium	Alcon Sponsored Symposium 1
17:00 - 18:00	Livestream 1	Translational Medicine	Symposium	Telemedicine, Artificial Intelligence, and Digital Innovation for Retinal Diseases
17:00 - 18:00	Livestream 2	Ocular Oncology & Pathology	Symposium	Intraocular Tumors
18:15 - 19:15	Livestream 1	Retina (Medical)	Symposium	Bayer Sponsored Symposium - Achieving Benefits for Patients Through Proactive, Individualized T&E in nAMD and PCV
19:30 - 20:30	Livestream 1	Intraocular Inflammation, Uveitis & Scleritis	Symposium	Uveitis & Ocular Inflammation Management and Pearls for Diagnosis
19:30 - 20:30	Livestream 2	Retina (Medical)	Free Paper	Rapid Fire Retina (Medical) 1 Session
20:45 - 21:45	Livestream 1	Ocular Imaging	Symposium	Nidek Sponsored Symposium - The Science and The Art of Multimodal Imaging / Retina Imaging
22:00 - 23:10	Livestream 1	Retina (Medical)	Symposium	AAO/APVRS Symposium: Medical and Surgical Macular Diseases
22:00 - 23:00	Livestream 2	Retina (Medical)	Free Paper	Rapid Fire Retina (Medical) 2 Session

PROGRAM AT A GLANCE

December 12, 2021 (Sun)				
Time	Livestream	Subspecialty	Presentation Type	Theme
12:00 - 13:00	Livestream 1	Retina (Medical)	Symposium	Bayer Sponsored Symposium - Optimising the Management of DME: Improving Patient Outcomes
12:00 - 13:00	Livestream 2	Retina (Surgical)	Symposium	Alcon Sponsored Symposium 2 - Evolution in Surgical Techniques - The Modern VR Procedure
13:15 - 14:15	Livestream 1	Retina (Medical)	Symposium	Age-related Macular Degeneration (AMD) and Polypoidal Choroidal Vasculopathy (PCV)
13:15 - 14:15	Livestream 2	Pediatric Retina	Symposium	Pediatric Retina: Epidemiology, Screening, Diagnosis and Treatment
14:30 - 15:30	Livestream 1	Ocular Imaging	Symposium	Updates on Retinal Imaging
14:30 - 15:30	Livestream 2	General Ophthalmology	Free Paper	Rapid Fire Eye Trauma, Emergencies & Infections, Ocular Oncology & Pathology, Intraocular Inflammation, Uveitis & Scleritis, Translational Medicine, Ocular Imaging Session
15:45 - 16:45	Livestream 1	General Ophthalmology	Symposium	Allergan Sponsored Symposium 2
15:45 - 16:45	Livestream 2	Ocular Imaging	Symposium	Nikon Sponsored Symposium - Optos True Ultra-Widefield (UWF™) The Gold Standard of Retinal Imaging: Clinical Applications and Future Trends
17:00 - 18:00	Livestream 1	Retina (Surgical)	Symposium	Pearls for Surgical Retina
17:00 - 18:00	Livestream 2	General Ophthalmology	Free Paper	Rapid Fire Pediatric Retina, General Ophthalmology Session
18:15 - 19:15	Livestream 1	Retina (Medical)	Symposium	Roche Sponsored Symposium - Optimising nAMD and DME Management through Longer-Acting Therapies
18:15 - 19:15	Livestream 2	General Ophthalmology	Symposium	Apellis Sponsored Symposium
19:30 - 20:30	Livestream 1	Social Program and Award Lecture	Special Lectures	Closing Ceremony cum Constable Lecture and International Award Lecture



Optos true ultra-widefield (UWF™)
the gold standard of retinal imaging
— Clinical Applications and Future Trends —

**Nikon/
Optos
Symposium**

Dec 12th Sunday
15:45 – 16:45
(GMT+8, HKT)



**MODERATOR
AND SPEAKER**

**Clinical Benefits of ultra-widefield imaging in
intraocular tumor and various retinal diseases**

Min Kim, MD
Gangnam Severance Hospital, Korea



SPEAKER

**Ultra-widefield oral fluorescein angiography
in children**

Ding Xiaoyan, MD
Zhongshan Ophthalmic Center, China



SPEAKER

Optos UWF imaging in less common condition

Chan Hwei Wuen, MD
National University Hospital, Singapore

The background is a teal color with a faint world map and a network of white lines connecting various points, suggesting global connectivity. A large, semi-transparent blue and purple geometric shape is positioned in the upper right corner, serving as a backdrop for the title.

CONGRESS INFORMATION

CONGRESS INFORMATION

The 14th Asia-Pacific Vitreo-retina Society Congress Information

EVENT NAME

APVRS 2021 Virtual

REGISTRATION

Delegates can register online anytime during the Congress. For registrations made and paid after December 6, 2021, it will take 24 hours for the account to be activated.

APVRS CONGRESS SMARTPHONE APP

The APVRS 2021 Virtual mobile app provides easy-to-use interactive capabilities to enhance your Congress experience. The app features all the scientific sessions, e-posters, video abstracts, sponsors and general information.

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



ANDROID



IOS

You are strongly recommended to update the app regularly to keep abreast of the latest congress updates. If you need any help downloading the app and navigating its functions, please ask for assistance in the live chat on the virtual site during the Congress or email secretariat@apvrs.org.

Apple Inc. censorship appears to restrict the display of all COVID-19 related scientific programs from the iOS mobile version. You are highly recommended to attend these sessions via the webpage portal. For the full list of abstracts, please refer to <https://2021.apvrs.org/abstracts/>.

SESSION SCHEDULE

The session schedule can be found at <https://2021.apvrs.org/agenda/>.

All program schedules are shown in GMT+8. Please be reminded to check the session time in your local time zone prior to the Congress start. You may find the session time in your location at <https://2021.apvrs.org/agenda/> or via Time Converter. If you require any assistance, please email secretariat@apvrs.org.

ABSTRACT BOOK

A PDF copy of the abstract book is available online at <http://2021.apvrs.org/publications>. You may also find all accepted abstracts at <https://2021.apvrs.org/abstracts/>. Please scan the QR code below to access the abstract book:



ON-DEMAND

All congress materials will be on demand for viewing till March 22, 2022. Please visit <https://2021.apvrs.org/agenda/> and select scientific sessions to view the recordings.

CERTIFICATES OF ATTENDANCE

Certificates of Attendance can be downloaded through the APVRS Congress system (<http://congress.apvrs.org/>) after the Congress.

SOCIAL EVENTS

Opening Ceremony

Date: Dec 11, 2021 (Sat)
Time: 12:00 – 12:20 (GMT+8)
Livestream 1

Talent Show - The International Retinal Band

Date: Dec 12, 2021 (Sun)
Time: 20:13 – 20:23 (GMT+8)
Livestream 1

Closing Ceremony

Date: Dec 12, 2021 (Sun)
Time: 19:30 – 20:30 (GMT+8)
Livestream 1



Key Learnings and Recent Advances in Geographic Atrophy (GA)

Speakers:

**Dr Jennifer Arnold, Prof. Adrian Koh,
Prof. Ian Pearce**

Session date/time:

**Sunday 12 December,
18:15-19:15 (GMT+8) Livestream 2**

Apellis is committed to leading the development of
therapies that target the complement system
slowing GA progression.

MED-ALL-GA-21-00033



<https://apellis.eu/>



<https://geographicatrophy.eu/>



SPECIAL LECTURES

SPECIAL LECTURES

APVRS TANO LECTURE

The APVRS Tano Lecture was established in 2009 in memory of Prof. Yasuo Tano, the founding president of APVRS. Every year, the APVRS honors an individual of over 45 years of age for exemplary leadership and significant contributions in advancing the understanding, diagnosis, and treatment of vitreoretinal diseases with the APVRS Tano Lecture.



Prof. Chi-Chun Lai (Chinese Taipei)

Prof. Chi-Chun Lai is the superintendent of Chang Gung Memorial Hospital Keelung branch in Chinese Taipei. He serves as an ophthalmology professor at Chang Gung Memorial Hospital and Chang Gung University. He began his medical education at Kaohsiung Medical University in 1983, and completed his residency in ophthalmology at Chang Gung Memorial Hospital, Linkuo. His retinal fellowship training was at Columbia University in New York City with Professor Stanley Chang, who was one of the best friends of the late Professor Yasuo Tano. Therefore, Prof. Lai had the opportunity to get to know Professor Tano.

He is an active and well-recognized participant in international societies. He is the current president of the Asia-Pacific Vitreo-retina Society (APVRS), which is the largest retinal society in Asia. He is one of the founding members of this organization and has been a council member of APVRS since its establishment. He was elected as the president of the Taiwan Macular Society from 2017-2019 and is currently the standing director of the Ophthalmological Society of Chinese Taipei from 2018-2024. He is a member of the prestigious Gonin Club and Macular Society. He has been directly involved in organizing many international meetings and participates in various activities in international societies for public health. Prof. Lai has received numerous awards throughout his illustrious clinical and academic career in recognition of his achievements and contributions to ophthalmology.

Prof. Lai has directed, organized, as well as lectured in countless international events. His main interest and area of research is macular disorders. He is the first researcher who used blood to assist internal limiting membrane (ILM) peeling in macular hole repair. In addition, he also does basic research to explore the pathophysiology and new treatment options for macular diseases. He is one of the pioneers in gene therapy for experimental choroidal neovascularization (CNV). His novel techniques to use auto-blood and ILM repositioning in treatment of macular hole retinal detachment have increased the success rate from 50% to nearly 100%.

Prof. Lai is actively involved in clinical research, having been principal investigator or sub-investigator on many clinical trials investigating therapy for macular diseases, including innovative and pioneering phase I-II trials. His efforts in research have resulted in 2 patents, over 200 peer-reviewed articles and several book chapters.

Management of Macular Hole Retinal Detachment

Dec 11, 2021 12:06 – 12:20 (GMT+8) Livestream 1

Macular hole retinal detachment (MHRD) is a vision-threatening complication of highly myopic eyes. The retinal re-attachment and hole closure rate was less than 50% just a decade ago. The advancements in vitrectomy and modified ILM flap techniques have improved the anatomical success rate to over 90%, but functional recovery is still unfavorable. The current concepts and the unmet needs of MHRD will be discussed in this lecture.

APVRS CONSTABLE LECTURE

The APVRS Constable Lecture was established in 2016 in honor of Prof. Ian Constable, a past president of APVRS. The Constable Lecture awards individuals of 45 years or younger for outstanding contributions in advancing the understanding, diagnosis, and treatment of vitreo-retinal diseases.



Dr. Daniel Ting (Singapore)

Dr. Daniel Ting is the director of Singapore Health Service (SingHealth) AI Program, Head of AI and Digital Innovation at Singapore Eye Research Institute (SERI), and associate professor in ophthalmology with Duke-NUS Medical School Singapore. In a global setting, he serves on several AI executive committees (American Academy of Ophthalmology, USA; STARD-AI, UK; and DECIDE-AI, UK) and AI editorial boards (*Nature Digital Medicine*, *Frontiers in Medicine*, *Ophthalmology* and *British Journal of Ophthalmology*). Of note, he is the only Asia-Pacific representative that sits on the AAO AI committee and also the youngest editorial board member appointed for *Ophthalmology* and the *British Journal of Ophthalmology*. In 2017, he was also the US-ASEAN Fulbright Scholar who visited Johns Hopkins University to deepen the AI collaboration between the US and the ASEAN regions.

Dr. Ting is an outstanding global key opinion leader, physician-surgeon and scientist-innovator who has already made a remarkable contribution in developing several state-of-the-art, cutting-edge AI diagnostic tools in vitreo-retinal diseases, including diabetic retinopathy, age-related macular degeneration and myopic macular degeneration. In 2017, Dr. Ting led a team of close to 30 physicians and computer scientists in developing and testing one of the first deep learning systems using a customized convolutional neural network (CNN) and approximately 500,000 retinal images in detecting 3 major blinding eye conditions, namely, diabetic retinopathy (DR), glaucoma and age-related macular degeneration. Results were published in *JAMA*, with >750 citations and >45,000 views over the past 3.5 years. This CNN algorithm has been patented, included into the Singapore National AI strategy, obtained regulatory approval and licensed to >20 countries worldwide. More recently, he has also published another deep learning system in detection of myopia and myopic macular degeneration in April 2021. In the same paper, he also introduced the use of a blockchain platform as a novel privacy-preserving technology to improve AI transparency for medical studies.

To date, Dr. Ting has published more than 180 peer-reviewed journal papers, conference abstracts, book chapters and educational articles, including >40 articles related to AI in the best journals such as *JAMA*, *New England Journal of Medicine*, *Nature Medicine*, *Nature Digital Medicine*, *Nature*

Biomedical Engineering, Lancet Digital Health, Progress in Retinal and Eye Research, Ophthalmology, JAMA Ophthalmology, BJO, MICCAI, ACCV, IAAI and so on. For his work, he has already won many prestigious international awards, including the Generation T Tatler Asia (2021), MICCAI OMIA Award (2020), ARVO Bert Glazer Award (2020), USA Macula Society Evangelos Gragoudas Award (2019), Asia-Pacific Academy of Ophthalmology (APAO) Young Ophthalmologist's Award (2018), the Asia-Pacific Tele-Ophthalmology Society (APTOS) Young Innovator Award (2017), SingHealth Distinguished Young Researcher Award (2018), and Singapore General Hospital Young Investigator Award (2017). In the recent ExpertScape ranking, he is also ranked as the world's most influential deep learning researcher across all domains in healthcare for the past 10 years (2010-2021).

AI Innovation in Ophthalmology: What is Next?

Dec 12, 2021 19:32 – 19:47 (GMT+8) Livestream 1

The simultaneous maturation of multiple digital and telecommunications technologies in 2020 has created an unprecedented opportunity for ophthalmology to adapt to new models of care using telehealth supported by digital innovations. These digital innovations include artificial intelligence (AI), 5th generation (5G) telecommunication networks and the Internet of Things (IoT), creating an inter-dependent ecosystem offering opportunities to develop new models of eye care addressing the challenges of COVID-19 and beyond. Ophthalmology has thrived in some of these areas partly due to its many image-based investigations. Telehealth and AI provide synchronous solutions to challenges facing ophthalmologists and healthcare providers worldwide. This article reviews how countries across the world have utilized these digital innovations to tackle diabetic retinopathy, retinopathy of prematurity, age-related macular degeneration, glaucoma, refractive error correction, cataract and other anterior segment disorders. The review summarizes the digital strategies that countries are developing and discusses technologies that may increasingly enter the clinical workflow and processes of ophthalmologists. Furthermore, as countries around the world have initiated a series of escalating containment and mitigation measures during the COVID-19 pandemic, the delivery of eye care services globally has been significantly impacted. As ophthalmic services adapt and form a "new normal", the rapid adoption of some telehealth and digital innovations during the pandemic is also discussed. Finally, challenges for validation and clinical implementation are considered, as well as recommendations on future directions.

APVRS INTERNATIONAL AWARD LECTURE

The APVRS International Award Lecture was established in 2017. The International Award Lecture recognizes individuals from outside the Asia-Pacific region for outstanding contributions in advancing the understanding, diagnosis, and treatment of vitreo-retinal diseases. There is no age restriction for APVRS International Award Lecture recipients.



Dr. R. V. Paul Chan (United States)

Dr. R. V. Paul Chan has dedicated his life to developing programs to prevent blindness in children with retinopathy of prematurity (ROP). Dr. Chan is the chair of the Department of Ophthalmology and Visual Sciences at the Illinois Eye and Ear Infirmary, University of Illinois at Chicago. After finishing his vitreoretinal fellowship at Massachusetts Eye and Ear Infirmary, he joined the faculty at Weill Cornell Medical College. Dr. Chan focused his efforts in developing infrastructure and training for ROP through technology, and developed novel educational systems and telemedicine platforms for international partners. In 2010, in partnership with a number of eye NGOs, Dr. Chan began his work in assessing global ROP programs and training physicians in Asia and around the world.

Dr. Chan's contributions in the Asia-Pacific region have been significant. He has trained and collaborated with many of the ROP leaders in Asia, and he has led and participated in programs for the development of ROP screening, currently focusing work in Nepal, Mongolia, the Philippines, and India. Building on his relationships with neonatology, informatics, education, and public health partners, he has developed a highly effective team approach to address the global burden of ROP. Dr. Chan is passionate about making a difference and creating sustainable care for the underserved. He has worked behind the scenes to empower local partners and provide them with the skills, network, and resources to succeed. Without Dr. Chan's efforts and commitment over the past decade, the ROP programs that he partnered to develop and strengthen would not be nearly as strong today.

Dr. Chan has contributed significantly to our understanding of pediatric retinal disease, retinal imaging, and medical education. He has performed extensive basic and clinical research studies in adult and pediatric retina, ROP, telemedicine, image analysis, and tele-education. He currently has more than 160 papers published in peer-reviewed journals, over 80 published abstracts, and has authored over 50 book chapters and other educational materials, all related to the fields of retina, education, and imaging. Dr. Chan is most known for his work in tele-education and has conducted numerous studies that have made a significant impact in developing models for ROP education and program development. He leads an international collaboration, the Global Education Network for ROP (GEN-

ROP), and is a senior investigator for the Imaging and Informatics in ROP (i-ROP) consortium. Dr. Chan also serves on the editorial board for the *Asia-Pacific Journal of Ophthalmology*.

In addition to Dr. Chan's academic work, he is a leader in organized medicine. He currently serves on the Executive Committee for the Pan-American Association of Ophthalmology (PAAO) and the Committee of Secretaries for the American Academy of Ophthalmology (AAO), where he is the Secretary for Global Alliances. He is also the chair of the ROP Committee for the International Pediatric Ophthalmology and Strabismus Council. Dr. Chan has and continues to be a strong advocate for the Asia-Pacific region and is committed to building collaborations between the APVRS and other global societies.

Technology and the 3rd Epidemic of Retinopathy of Prematurity (ROP): Opportunities to Improve Outcomes and Access to Care

Dec 12, 2021 19:49 – 20:04 (GMT+8) Livestream 1

New technology for the evaluation of pediatric retinal disease has become more accessible as new imaging systems have facilitated management. We currently have significant experience with fundus imaging and fluorescein angiography (FA) for retinopathy of prematurity (ROP), and some groups have demonstrated the utility of optical coherence tomography (OCT) and OCT–Angiography (OCTA) in pediatric patients. Artificial intelligence (AI) in ROP has also demonstrated high diagnostic performance and has the potential to be incorporated into clinical practice. Recently, the first AI system for ROP, which was developed by the imaging and informatics for ROP (i-ROP) consortium, received breakthrough approval by the FDA. This deep learning algorithm has been incorporated into a system termed “i-ROP DL”. I-ROP DL has been shown to have very high accuracy for detecting plus disease from wide-angle posterior pole retinal images and may even perform better than expert human examiners in detecting plus disease. With the growing 3rd epidemic of ROP we have the opportunity to utilize imaging and AI to improve access to care in resource limited areas of the world. Telemedicine and artificial intelligence have gained increasing interest in the delivery of care for pediatric patients.

The Science and **THE ART** of Multimodal Imaging



Yen-Po Chen
Taiwan



Nikolle Tan
Singapore



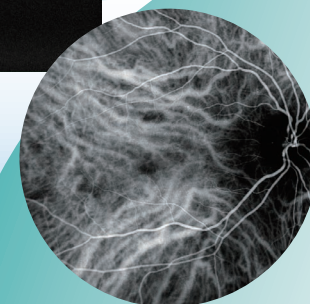
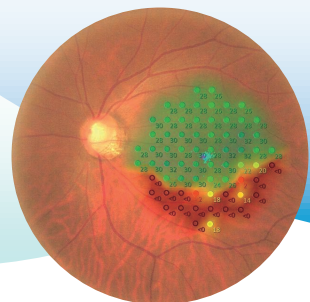
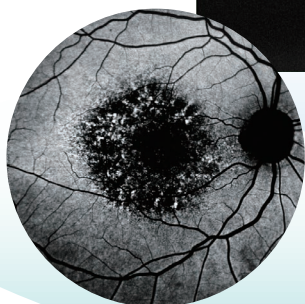
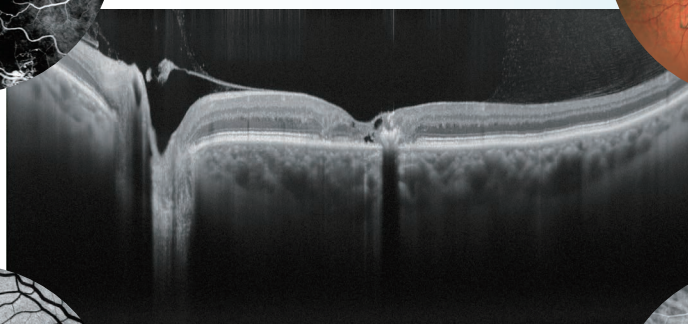
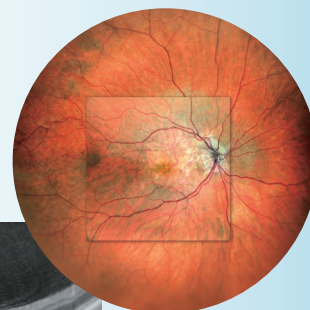
Andrew Chang
Australia



Suqin Yu
China



Manish Nagpal
India





SCIENTIFIC
PROGRAMS

INVITED SYMPOSIUMS

INVITED SYMPOSIUMS

Dec 11, 2021 (Sat)

General Ophthalmology

Plenary Session – Cutting Edge Retina 2021

The APVRS Congress plenary session this year highlights the latest developments and cutting-edge technology for the management of vitreo-retinal diseases. The topics included are the development of ocular bevacizumab which may have an enormous impact in treating patients with macular diseases in the Asia-Pacific region; the development of a new intraocular tamponade agent which may be a game-changer for vitreo-retinal surgery in the years to come. The last topic is about the bright future of gene therapy, using the cutting-edge technology of CRISPR, for retinal disease which is ongoing in a clinical trial in the US.

12:20 - 13:00 Venue: Livestream 1

*Chair(s): Andrew **CHANG**, Chi-chun **LAI**, Paisan **RUAMVIBOONSUK***

- 12:20** Safety and Efficacy Results of ONS-5010 – An Ophthalmic Bevacizumab from a Phase 3 Study of Monthly Intravitreal ONS-5010 in Subjects with Wet AMD
*Suber **HUANG***
- 12:30** New Vitreous Tamponade Agents
*Andrew **CHANG***
- 12:40** CRISPR: The Future of Treatment of Untreatable Retinal Diseases
*Andreas **LAUER***
- 12:50** Live Panel Discussion and Q&A

Intraocular Inflammation, Uveitis & Scleritis

Uveitis & Ocular Inflammation Management and Pearls for Diagnosis

In this symposium, speakers from around the world will cover and discuss the latest development in the diagnosis and treatment

of uveitis and ocular inflammation. Topics will include the updates in the SUN classification of uveitis, COVID eye diseases, checkpoint inhibitors and biologics, the role of molecular diagnostics in ocular inflammation, multimodal imaging for evaluation of uveitis, and surgical challenges in managing uveitis.

19:30 - 20:30 Venue: Livestream 1

*Chair(s): Timothy **LAI**, Lyndell **LIM**, William **MIELER***

- 19:30** Life vs Sight? Checkpoint Inhibitors and Other Biologics Inducing Uveitis
*Ming Lee **LIN***
- 19:38** Updates in the SUN Classification of Uveitis
*Annabelle **OKADA***
- 19:46** Ocular Manifestations of COVID-19: What is Real, What is Spurious?
*Rupesh **AGRAWAL***
- 19:54** Acute Panuveitis vs Endophthalmitis – Diagnostic Tips & Pitfalls in the Era of Deep Genome Sequencing
*Thuy **DOAN***
- 20:02** Multimodal Imaging in Uveitis: Indications for OCTA and Wide Field FFA and ICGA that are Essential in the Diagnosis and Management of Uveitis
*Danny Siu-chun **NG***
- 20:10** Surgical Challenges in the Management of Uveitis
*Min **KIM***
- 20:18** Live Panel Discussion and Q&A

Ocular Oncology & Pathology

Intraocular Tumors

Ocular oncology is a continuously changing field: new insights in basic science and new diagnostic techniques will help with better identification of malignant tumors and with individualized treatment. This symposium

provides information regarding these newest developments for the general ophthalmologist as well as specialist.

17:00 - 18:00 **Venue: Livestream 2**

Chair(s): Martine JAGER, Harvey UY, Peiquan ZHAO

- 17:00 New Approaches to Retinal Hemangioblastoma
Carol SHIELDS
- 17:09 Intra-Arterial Chemotherapy as Primary Treatment for Advanced Unilateral Retinoblastoma
Tingyi LIANG
- 17:18 MRI Imaging in Retinoblastoma
Pim DE GRAAF
- 17:27 Using MRI for Diagnosis and Prognosis of Uveal Melanoma
Jan-willem BEENAKKER
- 17:36 OCT in the Diagnosis of Intraocular Tumors
Emil Anthony SAY
- 17:45 Liquid Biopsies in Ocular Oncology
Jesse BERRY
- 17:54 Live Panel Discussion and Q&A

Ophthalmic Epidemiology

Pathologic Myopia

This symposium will cover the following: (1) Sharing current knowledge and exchanging ideas regarding the pathogenesis and current classification of pathological changes in pathologic myopia; (2) Promoting excellence in the study and practice of diagnosis and therapy of specific medical disorders such as punctate inner choroidopathy and dome-shaped macula; (3) Updating and enhancing the understanding of advances in cutting-edge surgical approaches to surgical retinal conditions such as myopic traction maculopathy and other related vitreoretinal interface disorders.

13:15 - 14:15 **Venue: Livestream 2**

Chair(s): Tzyy-chang HO, Xiaoling LIANG, Hiroko TERASAKI

- 13:15 Punctate Inner Choroidopathy in Pathologic Myopia
Kyoko OHNO-MATSUI
- 13:23 Clinical Histology of Myopia
Jost JONAS
- 13:31 Surgical Approach for Myopic Macular Disorders
Yasushi IKUNO
- 13:39 Classification and Grading System on Myopia Macular Disease
Lin LU
- 13:47 Dome-Shaped Macula
Ramin TADAYONI
- 13:55 Customized Treatment of Myopic Traction Maculopathy Based on the MTM Staging System
Barbara PAROLINI
- 14:03 The Chicken Soup of Center-Nonpeeling ILM Surgery in Pathologic Myopia
Tzyy-chang HO
- 14:07 Live Panel Discussion and Q&A

Retina (Medical)

Diabetic Retinopathy and Retinal Vascular Diseases

Diabetic retinopathy and other retinal vascular diseases are some of the most common causes of visual loss in both developed and developing countries. With the advances in technologies and treatment, updated classification and grading systems might be required. On the other hand, new imaging modalities such as OCT-A also impact the assessment of conditions and management decisions. Furthermore, contact-free screening methods might be needed in the era of COVID-19 to reduce the chances of viral transmission. This symposium will cover the latest concepts and trends in management of diabetic retinopathy and retinal vascular diseases.

13:15 - 14:15 **Venue: Livestream 1**

Chair(s): Raymond WONG, Tien-yin WONG, Seung Young YU

SCIENTIFIC PROGRAMS

- 13:15 New Tools in Diagnosis of Early Diabetic Retinopathy
Seung Young YU
- 13:22 Concepts in Development of a New Diabetic Retinopathy Classification
Jennifer SUN
- 13:29 What Imaging Parameters Influence Management of DME: Insights from the DRCR.Net, USA
Neil BRESSLER
- 13:36 Role of OCT-A in Diabetic Retinopathy
Raymond WONG
- 13:43 Virtual Clinics for Diagnosis of Diabetic Retinopathy During COVID-19
Gavin TAN
- 13:50 Standardization of OCT-A Nomenclature in of Retinal Vascular Disease
Marion MUNK
- 13:57 Contemporary Trials of Retinal Vein Occlusion
Sobha SIVAPRASAD
- 14:04 Live Panel Discussion and Q&A

AAO/APVRS Symposium: Medical and Surgical Macular Diseases

This session focuses on medical and surgical disease of the macula. Topics range from relatively common disorders, such as myopic macular changes and epiretinal membranes, to more rare diseases, such as paraneoplastic syndrome. This session is sponsored but the American Academy of Ophthalmology and features 7 speakers and 3 moderators from the US, Central America, and Asia.

22:00 - 23:10 **Venue: Livestream 1**

Chair(s): Manju SUBRAMANIAN, Lihteh WU

- 22:00 Macular Holes in High Myopia
Maria BERROCAL
- 22:10 Factors Associated with Good Visual Acuity Outcomes After Retinectomy in Eyes with Proliferative Vitreoretinopathy
Jason HSU

- 22:20 Functional and Anatomic Outcomes in Eyes with Idiopathic Epiretinal Membrane - Surgical Results are 5 Years of the PACORES Group
Francisco RODRIGUEZ
- 22:30 Update on the Management of CSCR
Manjot GILL
- 22:40 Paraneoplastic Immune Modulators Induced Maculopathy
Jorge FORTUN
- 22:50 Overview on Novel Light Therapies for the Treatment of Retinal Diseases
Marten BRELEN
- 23:00 Structure-Function Relationships in Macular Disease
Graham HOLDER

Retina (Surgical)

Innovation and Controversies in Surgical Retina

This symposium will cover new innovative techniques in vitreoretinal surgery for endophthalmitis, retinal detachment, use of intraoperative OCT and myopic maculoschisis. It will conclude with an update on gene therapy. It would be suitable for retinal fellows and specialists.

14:30 - 15:30 **Venue: Livestream 1**

Chair(s): Andrew CHANG, Taraprasad DAS, Kenneth FONG

- 14:30 Role of Vitrectomy for Endophthalmitis
Sanyam BAJIMAYA
- 14:40 Is Intraoperative OCT a Necessity for VR Surgery
Hiroko TERASAKI
- 14:50 Glue Assisted Retinopexy for Rhegmatogenous Retinal Detachment (Guard)
Mudit TYAGI
- 15:00 Role of ILM Peeling for Myopic Maculoschisis
Mushawiahti MUSTAPHA

15:10 Gene Therapy for Inherited Retinal Diseases: Is It Going to be a Mainstream Procedure for VR Surgeons?
Suber HUANG

15:20 Live Panel Discussion and Q&A

Social Program and Award Lecture

Opening Ceremony cum Tano Lecture

12:00 - 12:20 **Venue: Livestream 1**

Chair(s):

12:00 Opening Ceremony

12:06 APVRS Tano Lecture: Management of Macular Hole Retinal Detachment
Chi-Chun LAI

Translational Medicine

Telemedicine, Artificial Intelligence, and Digital Innovation for Retinal Diseases

The role of AI in personalized health care and stratified medicine has been firmly thrust into the consciousness of the ophthalmic world and notably in the field of retina. In this symposium world leaders in innovation in digital health care will provide examples and evidence of applications of AI in routine care delivery and discuss the importance, value and public health benefits of such innovations and obstacles to effective utilization of these advances.

17:00 - 18:00 **Venue: Livestream 1**

Chair(s): Usha CHAKRAVARTHY, Paisan RUAMVIBOONSUK, Daniel TING

17:00 How Has Telemedicine/Digital Innovation Influenced Ophthalmic Practice During COVID?
Anat LOEWENSTEIN

17:10 Big Data, Challenges of Data Collection and Data Privacy
Aaron LEE

17:20 AI Applications in Ophthalmology
Tien-yin WONG

17:30 Live Panel Discussion and Q&A

Dec 12, 2021 (Sun)

Ocular Imaging

Updates on Retinal Imaging

This symposium will offer highly clinically relevant tips and updates on using imaging to help clinical management. Speakers will provide updates on imaging in a wide range of retinal diseases. Several imaging modalities will be covered, including OCT, angiography and widefield imaging. The emphasis will be on functional correlation and clinical utility.

14:30 - 15:30 **Venue: Livestream 1**

Chair(s): Gemmy CHEUNG, Xiaoxin LI, Giovanni STAURENGHI

14:30 Updates from the APOIS PCV Workgroup
Kelvin Yi Chong TEO

14:37 Central Serous Chorioretinopathy – Multimodality Classification
Jay CHHABLANI

14:44 Microaneurysm, Macroaneurysm and Neovascularization in OCTA
Suqin YU

14:51 Coat's Disease – New Insights from Multimodality Imaging
Min KIM

14:58 Pachy Hyperautofluorescence as a Predictive Factor for the Recurrence of PIC
Feng WEN

15:05 Covid Retinal Vasculopathy
Alessandro INVERNIZZI

15:12 Widefield Imaging in Inflammatory Disorders
Thanapong SOMKIJRUNGROJ

15:19 Live Panel Discussion and Q&A

SCIENTIFIC PROGRAMS

Pediatric Retina

Pediatric Retina: Epidemiology, Screening, Diagnosis and Treatment

In the past decade, there have been innovations in research, technology, and surgical care that are impacting the care of children with retinal disorders. Artificial intelligence algorithms are being developed applied to pediatric retinal diseases, with significant implications for improving clinical care. Gene therapy is now available or under research for diseases that were previously untreatable. Small gauge instrumentation has changed the safety and techniques of vitreoretinal surgery. The section will bring together an international group of pediatric retina specialists to highlight these and other recent advances in pediatric retina, including the updated International Classification of ROP. Learning objectives:

1. Have a basic understanding of updated knowledge on medical and surgical treatment of pediatric retinal disorders.
2. Describe the changes in the updated classification of ROP.
3. Understand the role of genetic testing for current and future therapeutic options.
4. Be aware of the latest publication of International Classification of ROP 3

13:15 - 14:15 **Venue: Livestream 2**

Chair(s): Peter **CAMPBELL**, Wei-chi **WU**

- 13:15 AI and Pediatric Retinal Diseases: How Far Have We Progressed?
*Peter **CAMPBELL***
- 13:21 Newer Diagnostic Modalities in Retinopathy of Prematurity
*Wei-chi **WU***
- 13:27 Genetic Testing in the Era of Gene Therapy
*Hiroyuki **KONDO***
- 13:33 Gene Therapy in Pediatric Retinal Disease
*Audina **BERROCAL***
- 13:39 The Technique and Tool Kit Used During Pediatric Retina Surgery
*Peiquan **ZHAO***

- 13:45 Surgery for Complex Retinal Detachment in Pediatric Population
*Shunji **KUSAKA***
- 13:51 New International Classification of ROP III
*R.V. Paul **CHAN***
- 13:57 Live Panel Discussion and Q&A

Retina (Medical)

Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy

The choroid plays a central role in neovascular age-related macular degeneration (AMD). In this session, we will explore the latest multimodal imaging techniques such as 3D-OCT and widefield ICG angiography that increase our understanding of the role of the choroid in pachychoroid diseases and its manifestations, as well as the relationship with polypoidal choroidal vasculopathy (PCV). Despite the effectiveness of anti-VEGF treatment, there are still significant unmet needs and real-world data has helped identify the gaps. Another area of concern is geographic atrophy and how we may use choroidal changes to predict this outcome.

13:15 - 14:15 **Venue: Livestream 1**

Chair(s): K. Bailey **FREUND**, Adrian **KOH**, Won Ki **LEE**

- 13:15 3D-Visualization of Haller Vessels in Pachychoroid
*Jay **CHHABLANI***
- 13:22 Pachychoroid Disease and its Association with Polypoidal Choroidal Vasculopathy
*Gemmy **CHEUNG CHUI MING***
- 13:29 Challenges of Anti-VEGF Therapy for Neovascular AMD
*Adrian **KOH***
- 13:36 Ultra-Widefield Indocyanine Green Angiography Reveals Patterns of Choroidal Venous Insufficiency Influencing Pachychoroid Disease
*K.Bailey **FREUND***
- 13:43 Vitelliform Lesion in Eyes with Pachychoroid
*Won Ki **LEE***

- 13:50 Real World Outcomes in Management of Neovascular AMD: Insights from the Fight Retinal Blindness Programme
*Jennifer **ARNOLD***
- 13:57 Can a Neo-Choriocapillaris Predict the Development of Atrophy in Neovascular AMD?
*Srinivas **SADDA***
- 14:04 Live Panel Discussion and Q&A

Retina (Surgical)

Pearls for Surgical Retina

The "Pearls for Surgical Retina" symposium will feature focused topics on surgical techniques for vitreoretinal surgeons. Featuring experts from Asia, Europe, Australia and the USA, this session will provide practical tips for dealing with difficult surgical scenarios. Topics covered will include retinal detachment, IOL management, diabetic retinopathy, macular hole, myopia, vitreous opacities and choroidal lesions. The session will be interactive with time for questions and answers.

17:00 - 18:00 **Venue: Livestream 1**

*Chair(s): Adrian **FUNG**, Dennis **LAM**, Masahito **OHJI***

- 17:00 Intraoperative Sealing of Retinal Tears without Tamponade: A New Method and Device. Results of the Ex Vivo and In Vivo Validation
*Wilson **HERIOT***
- 17:05 Vitrectomy Choroidal Biopsy of Eye Tumors
*Adrian **FUNG***
- 17:10 Management of Vitreous Opacities: Yag Vitreolysis vs Vitrectomy
*Netan **CHOUDHRY***
- 17:15 Tackling Aphakia: 4-Point Scleral Fixation of Intraocular Lenses
*Sebastian **WALDSTEIN***
- 17:20 Sutured Secondary IOLs – Avoiding Complications
*Aleksandra **RACHITSKAYA***

- 17:25 How to Create a Flat and Single-Layered Inverted ILM Flap for Macular Hole Surgery
*Chi-chun **LAI***
- 17:30 Macular Surgery for Eyes with High Myopia
*Shaochong **ZHANG***
- 17:35 Effect of Internal Limiting Membrane Peeling on Postoperative Visual Acuity in Macula-Off Rhegmatogenous Retinal Detachment
*Shumpei **OBATA***
- 17:40 Endoscopic Vitreoretinal Surgeries in Different Situations
*Vivek **DAVE***
- 17:45 Surgical Pearls in Diabetic Vitrectomy
*Nishant Vijay **RADKE***
- 17:50 Concurrent Phacoemulsification and Vitrectomy Surgery: Outcomes in 200 Consecutive Cases
*William **MIELER***
- 17:55 Live Panel Discussion and Q&A

Social Program and Award Lecture

Closing Ceremony cum Constable Lecture and International Award Lecture


19:30 - 20:30 **Venue: Livestream 1**

Chair(s):

- 19:30 APVRS Constable Lecture: AI Innovation in Ophthalmology: What is Next?
*Daniel **TING***
- 19:49 APVRS International Award Lecture: Technology and the 3rd Epidemic of Retinopathy of Prematurity (ROP): Opportunities to Improve Outcomes and Access to Care
*R.V. Paul **CHAN***
- 20:04 Closing Ceremony



Roche satellite symposium at APVRS 2021



Optimising nAMD and DME management through longer-acting therapies

Sunday, 12 December 2021 | 18:15–19:15 HKT





Please join us as we cast an eye on the landscape of longer-acting therapies for treating retinal diseases



Unmet need for longer-acting therapies for nAMD and DME
Paisan Ruamviboonsuk
(Chair) Thailand



Dual targeting of Ang-2 and VEGF-A
Robyn Guymer
Australia



Latest therapeutic advancements for retinal diseases
Gemmy Cheung
Singapore



Continuous delivery of anti-VEGF-A
Andrew Chang
Australia

Live Q&A session



**SCIENTIFIC
PROGRAMS**

SUBMITTED SYMPOSIUMS

BEST ABSTRACT AWARDS

The Best Abstract Awards are presented to outstanding abstract(s) in the submitted program.

Best Free Paper Award



Tsengelmaa CHULUUNBAT
Mongolia



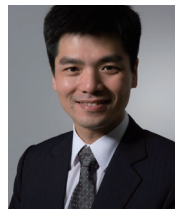
Gaurav GARG
India



De-Kuang HWANG
Chinese Taipei



Pranjal MISHRA
India



Wei-Chi WU
Chinese Taipei

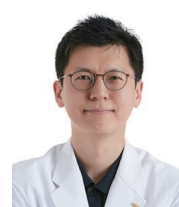
Best E-poster Award



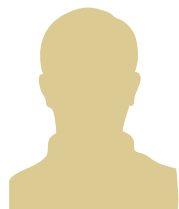
Andrew CHANG
Australia



Kai Xiong CHEONG
Singapore



Hoon Dong KIM
Korea, Republic of

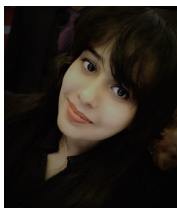


Rushi PATEL
United States



Harsha SEN
United States

Best Video Award



Ankita AISHWARYA
India



John AKKARA
India



Naresh KANNAN
India



Anniksha M N
India



Mohd Faizal ZOKRI
Malaysia

FREE PAPERS

Dec 11, 2021 (Sat)

Retina (Medical)

Rapid Fire Retina (Medical) 1 Session

19:30 - 20:30 **Venue: Livestream 2**

- 19:30 Dual Angiopoietin-2/Vascular Endothelial Growth Factor-A Neutralization Prevents Vascular Leakage, Cell Death, and Subretinal Macrophage Infiltration in Mouse Models of Retinal Ischemia/Reperfusion Injury and Spontaneous Choroidal Neovascularization
*Jérémie **CANONICA***
- 19:35 Simultaneous Angiopoietin-2/Vascular Endothelial Growth Factor-A Inhibition Prevents Subretinal Fibrosis Progression in Preclinical Mouse Models of Choroidal Neovascularization
*Peter **WESTENSKOW***
- 19:40 Faricimab in Diabetic Macular Edema: 1-Year Results from the Phase 3 YOSEMITE and RHINE Trials
*Young Hee **YOON***
- 19:45 Effect of Pigment Epithelial Detachment Thickness and Variability on Visual Acuity Outcomes in Patients with Neovascular Age-Related Macular Degeneration: 96-Week Pooled, Treatment-Agnostic Data from the HAWK and HARRIER Studies
*Andrew **CHANG***
- 19:50 Exploring Angiopoietin-2 Signaling in Vascular Stability in Patients With Diabetic Macular Edema Receiving Faricimab in Phase 2 and Phase 3 Trials
*Gemmy **CHEUNG***
- 19:55 Faricimab Personalized Treatment Interval Dosing Dynamics Illustrated with Patient Case Profiles: Phase 3 YOSEMITE and RHINE Trials for Diabetic Macular Edema
*Timothy **LAI***

- 20:00 The Archway Phase 3 Trial of the Port Delivery System With Ranibizumab in Neovascular Age-Related Macular Degeneration: Updated Results and Analysis of Retinal Fluid and Vision Outcomes
*Shwu-jiuan **SHEU***
- 20:05 Treat-and-Extend Dosing of Intravitreal Anti-VEGF Agents in Neovascular Age-Related Macular Degeneration: A Meta-Analysis of 1697 Eyes
*Prem **NICHANI***
- 20:10 The Effect of Lipopolysaccharides on Inducible Nitric Oxide Synthase in Human Microvascular Endothelial Cells and Human Choroidal Endothelial Cells
*Ruoxin **WEI***
- 20:15 Three-Year Treatment Outcomes of Aflibercept versus Ranibizumab for Diabetic Macular Edema
*Mark **GILLIES***
- 20:20 The Impact of Disease Activity on 5-Year Outcomes in Patients Undergoing Treatment for Neovascular Age Related Macular Degeneration
*Kelvin Yi Chong **TEO***
- 20:25 Structural and Functional Outcomes of Lamellar Macular Holes with Epimacular Proliferations
*Rohit **AGRAWAL***
- 20:30 Novel Biomarkers in Hypertensive Retinopathy
*Thirumalesh **M B***
- 20:35 Neovascular Age-Related Macular Degeneration Treated with Intravitreal Aflibercept Treat-and-Extend: Post hoc Analysis of Injection-Intensive Requirement for Patients in the ARIES Study
*Paul **MITCHELL***

Rapid Fire Retina (Medical) 2 Session

22:00 - 23:00 **Venue: Livestream 2**

- 22:00 Determinants for Anemic Retinopathy
Aditi GUPTA
- 22:05 Retinal Neural Dysfunction in Diabetes Revealed with Chromatic Pupillometry
Tien-en TAN
- 22:10 Age, Initial Central Retinal Thickness, and OCT Biomarkers Have an Influence on the Outcome of Diabetic Macular Edema treated with Ranibizumab: Tri-Center 12-Month Treat-and-Extend Study
Chun-ju LIN
- 22:15 Blindness Post-COVID Disease
Swati HIRE
- 22:20 Evaluation of Vascular Endothelial Growth Factor Level in the Tears of Patients with Age-Related Macular Degeneration
Mohamad SHAHIDATUL ADHA
- 22:25 Clinical Characteristics of Comorbid Retinal Dystrophies and Primary Angle-Closure Disease
Deepika PARAMESWARAPPA
- 22:30 The Development and Evolution of Lamellar Macular Hole in Highly Myopic Eyes
Yun HSIA
- 22:35 Anti-VEGF Therapy Leads to an Improvement in Grade of Retinal Pigment Epithelium Alterations in Diabetic Macular Edema
Malvika SINGH
- 22:40 Prevalence and Clinical Implications of Subretinal Fluid in Diabetic Macular Edema and Retinal Vein Occlusion
Jeff PARK
- 22:45 Risk of Stroke and All-Cause Mortality in Retinal Vein Occlusion: A Population-Based Cohort Study
Yu-yen CHEN

- 22:50 Estimation of Hydrogen Sulfide in Intraocular Environment as a Novel Biomarker for Diabetic Retinopathy
Aparna GHODAKE
- 22:55 Leptochoroid associated Choroidal Neovascular Membrane in High Myopes using SSOC
Bhavana VASUDEV
- 23:00 Intracystic Hyperreflective Material as a Prognostic Biomarker and its association with Diabetic Nephropathy
Sandeep KUMAR
- 23:05 Relationship Between Visual Acuity and Intraretinal or Subretinal Fluid in Patients with Neovascular Age-Related Macular Degeneration Treated with Intravitreal Aflibercept Treat-and-Extend: A Post hoc Analysis of the ARIES Study
Paul MITCHELL

Retina (Surgical)

Rapid Fire Retina (Surgical) Session

14:30 - 15:30 **Venue: Livestream 2**

- 14:30 Patient Compliance for Prone Positioning after Vitrectomy Surgery
Ashish AHUJA
- 14:35 Intravitreal Recombinant Tissue Plasminogen Activator before Vitrectomy for Diabetic Tractional Retinal Detachment: A Randomized Controlled Trial
Khalil GHASEMI FALAVARJANI
- 14:40 ILM Peeling: Searching for Hope in ERM associated Ectopic Fovea
Krishnendu NANDI
- 14:45 Effects of the Number of Intravitreal Gas Bubbles following Pneumatic Retinopexy on Anatomical and Visual Outcomes in Rhegmatogenous Retinal Detachment
Manachaya PRUKAJORN

SCIENTIFIC PROGRAMS

- 14:50 Single-Layer Inverted Internal Limiting Membrane Flap versus Conventional Peel for Small- or Medium-Sized Full-Thickness Macular Holes
Hung-da CHOU
- 14:55 Pars Plana Vitrectomy combined with Scleral Buckle for Retinal Detachment secondary to Ocular Toxocariasis
Noriell Jonathan MAMACLAY
- 15:00 Inverted Internal Limiting Membrane Flap Technique for Macular Hole Surgery with and without Perfluorocarbon Liquid
Kanwaljeet Harjot MADAN
- 15:05 Clinical Outcomes of a Beveled-Tip, Ultra-High Speed, 25-Gauge Pars Plana Vitrectomy Cutter Probe
Harvey UY
- 15:10 Time from Presentation to Surgical Repair of Rhegmatogenous Retinal Detachments: A Meta-Analysis
Amirthan SOTHIVANNAN
- 15:15 An Innovative Scleral Fixation IOL Implantation Technique with a Single Suture Loop Without Scleral or Conjunctival Flaps
Durgesh KUMAR
- 15:20 Correlation between M-Charts and Subjective Perception of Metamorphopsia in Patients with Retinal Detachment
Paola OQUENDO

Dec 12, 2021 (Sun)

General Ophthalmology

Rapid Fire Eye Trauma, Emergencies & Infections, Ocular Oncology & Pathology, Intraocular Inflammation, Uveitis & Scleritis, Translational Medicine, Ocular Imaging Session

14:30 - 15:30 **Venue: Livestream 2**

- 14:30 Management of Preoperative Posterior Capsular Tear to Expected Vision from

Unexpected Scenery
Billal HOSSAIN

- 14:35 Patients Presenting with Metastases: Stage IV Uveal Melanoma, an International Study
Gaurav GARG

- 14:40 Anatomical and Functional Outcome of Macular Edema Secondary to Non-Infectious Uveitis Treated with Single Low-Dose Suprachoroidal Triamcinolone Acetonide (2mg)
Abhishek ANAND

- 14:45 Post-Hoc Analysis of Safety and Visual Function: Suprachoroidal Injection of Proprietary Triamcinolone Acetonide Suspension (CLS-TA/ARVN001) versus Rescue Therapies for Uveitic Macular Edema
De-kuang HWANG

- 14:50 Stimulation of c-Kit+ Retinal Progenitor Cells by Stem Cell Factor Confers Immunomodulatory Protection against Retinal Degeneration
Xi CHEN

- 14:55 Single-Cell RNA-Seq Analysis Maps Early Retinal Development of Mouse and Human Retina
Xi CHEN

- 15:00 Validation of an Automated, Offline Deep Learning-Based Tool to Screen for Age-Related Macular Degeneration
Divya RAO

- 15:05 Risk Factors for Onset or Progression of Posterior Vitreous Detachment at the Vitreomacular Interface After Cataract Surgery
Sohee JEON

- 15:10 Analysis of Structural Changes in the Choroid using Choroidal Vascularity Index in Macular Telangiectasia Type 2 with and without a Choroidal Neovascular Membrane
Sherina THOMAS

- 15:15 Foveal Neovascularization in Proliferative Diabetic Retinopathy
*Ramesh **VENKATESH***
- 15:20 Features of Retinal Conditions Mimicking Polypoidal Choroidal Vasculopathy
*Colin **TAN***
- 15:25 Radial Growth Rates of Definitely Decreased Autofluorescence across Three Mild ABCA4 Genotype Groups
*Rachael **HEATH JEFFERY***

Rapid Fire Pediatric Retina, General Ophthalmology Session

17:00 - 18:00 **Venue: Livestream 2**

- 17:00 The Coronavirus (COVID-19) Pandemic's Impact on Retinopathy of Prematurity Treatment in Makassar, South Sulawesi, Indonesia
*Idayani **PANGGALO***
- 17:05 Outcomes of ROP Screening and Treatment in Mongolia
*Tsengelmaa **CHULUUNBAT***
- 17:10 Paradigm Shift in Management of ROP: From Lasers to Anti-VEGF Therapy
*Purva **DATE***
- 17:15 Super-Selective Triple-Drug Intraarterial Chemotherapy in Retinoblastoma
*Ankita **AISHWARYA***
- 17:20 Coats Disease in India: Clinical Presentation and Outcome in 675 Patients (690 Eyes)
*Vishal **RAVAL***
- 17:25 Efficacy and Safety of Intravitreal Aflibercept compared with Laser Photocoagulation for Patients with Retinopathy of Prematurity: The Phase 3 FIREFLEYE Study
*Wei-chi **WU***
- 17:30 Spectral Domain Optical Coherence Tomography Imaging of the Choroid in Children with Cortical Vision Impairment: Do we have a New Imaging Marker?
*Pranjal **MISHRA***

- 17:35 Validation of the Postnatal Growth and Retinopathy of Prematurity Screening Criteria
*Tso-ting **LAI***
- 17:40 Demographic Risk Factors of Retinopathy of Prematurity: A Systematic Review of Population-Based Studies
*Marko **POPOVIC***
- 17:45 Inter-Eye Comparison of Refractive Outcomes of Infants following Unilateral Laser Treatment
*Sadik **BAYRAMOGLU***
- 17:50 Retinitis Pigmentosa in Laurence-Moon-Bardet-Biedl Syndrome in India: Electronic Medical Records Driven Big Data Analytics: Report II
*Deepika **PARAMESWARAPPA***
- 17:55 Comparison of Visual Acuity Testing Methods using Smartphone Apps, Snellen Chart and Early Treatment Diabetic Retinopathy Study Chart
*Padma Bharathi **KANDASAMY***

E-POSTERS

Eye Trauma, Emergencies & Infections

A Case Series of Parinaud's Oculoglandular Syndrome secondary to *Sporothrix schenckii*

First Author: Kumutha **M**

Co-Author(s): Ang **JEAT**, Norliza **RAJA**

A Ticking Timebomb!

First Author: Joseph **DANASAMY**

Co-Author(s): May-may **CHOO**, Mimiwati **ZAHARI**

Ailurophile's Red Eye

First Author: Afifah **MANSOR**

Co-Author(s): Krishnalatha **BUANDASAN**, Muhammad Asyari **ISMAIL**, Ui Lyn **LOH**, Preshaantini **R PONNAIAH**, Rahimah **RAMLI**

Alteration of Foveal Structure and Thickness following Blunt Ocular Trauma: A Case Series

First Author: Shyam Sundar **DAS MOHAPATRA**

BD BACTEC Peds Plus/F versus Conventional Culture in Detecting Bacterial Contamination of Non-Contact Condensing Lenses in a Malaysian University Hospital

First Author: Mae-lynn **BASTION**

Co-Author(s): Somasundranayaky **SIVALINGAM**, Syed Zulkifli **SYED ZAKARIA**, Wan Haslina **WAN ABDUL HALIM**, Kon Ken **WONG**, Syarifah Azura **WONG**

Central Retinal Artery Occlusion: A Sign of Orbital Mucormycosis

First Author: Anuj **SONI**

Corneal Bee Sting with Retained Bee Stinger

First Author: Tsu Hong **LIM**

Co-Author(s): On Heong **LIEW**

Dacryoadenitis with Multiple Ocular Abscesses in Disseminated Ocular Melioidosis: A Rare Presentation

First Author: Sylves **PATRICK**

Co-Author(s): Caroline **BINSON**, Hanida **HANAFI**, Ru Bin **SEAH**

Durian Crash Landing on You: Traumatic Vision Loss

First Author: Ainal Adlin **NAFFI**

Co-Author(s): Jemaima **CHE HAMZAH**, Jing **LEE**, Lim **SEE THENG**

Evolution of Lightning Maculopathy

First Author: Simanta **KHADKA**

Co-Author(s): Raghunandan **BYANJU**, Suchan **POON**, Sangita **PRADHAN**, Rinkal **SUWAL**

Fulminant Microbial Keratitis in a Patient with Acquired Immunodeficiency Syndrome

First Author: Noranida **ABD MANAN**

Co-Author(s): Azlan **MUSA**, Mimiwati **ZAHARI**

Gunderson Flap as an Alternative Reconstructive Option for Penetrating Corneal Injury in District Setting

First Author: Mohd Hikmi **RAZALI**

Co-Author(s): Nurhayati **ABDUL KADIR**

I am a Cat Person: Multifaceted Cat Scratch Disease

First Author: Hong Nien **LEE**

Co-Author(s): Juliana **JALALUDDIN**

Incidental Rare Intraocular Foreign Body Discovered after Penetrating Injury 30 Years Ago

First Author: Shamus **BUTT**

Co-Author(s): Mohamed **EL-ASHRY**

Intravenous Drug Use-Related Endophthalmitis in Taiwan

First Author: Kuan-jen **CHEN**

Ophthalmic Findings in Rhinoorbital Mucormycosis following SARS-CoV-2 Infection

First Author: Rajwinder **KAUR**

Co-Author(s): Balbir **KHAN**

Optic Nerve Head Avulsion following Blunt Trauma: A Rare Presentation

First Author: Shyam Sundar **DAS MOHAPATRA**

Restoring Vision in the Only Seeing Eye Post Trauma

First Author: Ayushi **SINHA**

Serology-Negative Toxoplasma Granuloma: Are They Really Rare Today?

First Author: Saurabh **HARAL**
Co-Author(s): Dr V.S. **GUPTA**, Dr Monika **KAPUR**

Subperiosteal Abscess as Rare Ocular Manifestation of Meliodosis

First Author: Sue Anne **LOH**
Co-Author(s): Norlelawati **BINTI ABU**, Adil **HUSSEIN**, Tan Pek **HWI**

To Save the Life or Save the Eye

First Author: Gowtham **KIM**
Co-Author(s): Sanjana **CHILUKURI**, Anniksha M **N**, Joshmitha M **S**, Stephen **SUDHAKAR**

Traumatic Endophthalmitis due to Intraocular Cilia following Penetrating Injury: Role of B-Scan Ultrasound in Diagnosis

First Author: Harsh **SINGH**
Co-Author(s): Annaji **KOTA**, Manavi **SINDAL**, S **SIVARANJANI**

General Ophthalmology

A Case of Acquired Focal Choroidal Excavation Associated with Ocular Trauma in Early Childhood

First Author: Motohisa **OHNO**
Co-Author(s): Tae **IGARASHI**, Koji **KAMOI**, Kyoko **OHNO-MATSUI**

A Tale of Disc

First Author: Shams **NOMAN**

Causes of Papilledema in the Pediatric Age Group: A 10-Year Hospital Based Study in Northeastern India

First Author: Hiranmoyee **DAS**

Choroidal Coloboma with Internal Limiting Membrane Folds: A Rare Association

First Author: Rajwinder **KAUR**
Co-Author(s): Balbir **KHAN**

Clinical Characteristics and Outcomes of Pediatric Cataract in a Tertiary Center in Malaysia: A 10-Year Review

First Author: Mohd Yazid **AIMAN MARDHIYYAH**
Co-Author(s): Shatriah **ISMAIL**, Abd Bari **MUHD-SYAFI**

Comparison of Intraocular Pressure Peak and Fluctuations among Filipino Patients with Normal Eyes and Glaucoma Suspects using Water Drinking Test and Diurnal Intraocular Pressure

First Author: Anelisa **KOH**

Efficacy and Safety of Intravitreal Pegcetacoplan in Geographic Atrophy: Results from the Phase 3 DERBY and OAKS Trials

First Author: Jennifer **ARNOLD**
Co-Author(s): Caleb **BLISS**, Jeffrey **HEIER**, Ramiro **RIBEIRO**, Charles **WYKOFF**

Endoscopic Orbital Decompression via Transcaruncular Approach for Compressive Optic Neuropathy

First Author: Alexander Gerard Nino **GUNGAB**

Hemichiasmal Scotoma in Pituitary Macroadenoma

First Author: Ker Dee **LIM**
Co-Author(s): Juliana **JALALUDDIN**, Hong Nien **LEE**

Observational Study of Ocular Manifestations of Rheumatoid Arthritis in a Tertiary Care Hospital in East India

First Author: Udbuddha **DUTTA**

Orbital Apex Syndrome due to Sinoorbitocerebral Mucormycosis in Post COVID Patient: A Case Report

First Author: Renu **POUDEL**

Quantitative Evaluations of Posterior Staphylomas in Highly Myopic Eyes by Ultra-Widefield Optical Coherence Tomography

First Author: Noriko **NAKAO**
Co-Author(s): Tae **IGARASHI**, Kyoko **OHNO-MATSUI**, Kosei **SHINOHARA**, Hiroyuki **TAKAHASHI**

Sinonasal Lymphoma Presenting as Cavernous Sinus Syndrome: A Case Report and Review of Literature

First Author: Noranida **ABD MANAN**
Co-Author(s): May-may **CHOO**, Irina **EFFENDI-TENANG**, Mimiwati **ZAHARI**

The Effect of Timolol 0.5% Usage without and with Benzalkonium Chloride on Increasing Ocular Surface Index Score

First Author: Muhammad **SYAUQIE**

Co-Author(s): Hendriati **JEFRIANTO**

Unilateral Oculomotor Nerve Palsy: A Rare Complication of Dengue Fever

First Author: Sue Anne **LOH**

Co-Author(s): Wan Mohd Hafidz **BIN WAN ABDUL RAHMAN**, Norlelawati **BINTI ABU**, Adil **HUSSEIN**

Intraocular Inflammation, Uveitis & Scleritis

A Novel Case Report of Frosted Branch Angiitis in a COVID-19 and Human Immunodeficiency Virus Infected Patient: Coincidence or Causal Association?

First Author: Yong Zheng **WAI**

Co-Author(s): Jia Cherng **CHONG**, Tsu Hong **LIM**

Acute Retinal Necrosis as a Presenting Ophthalmic Manifestation in COVID-19 Recovered Patients

First Author: Mudit **TYAGI**

Adjunct Intravitreal Penicillin G Injection for Ocular Syphilis

First Author: Moses Job **DUMAPIG**

Co-Author(s): Maria Cecilia **ARENAL**

An Atypical Presentation of Endogenous Endophthalmitis Masquerading as Behcet Disease: A Diagnostic Dilemma

First Author: Deepayan **SARKAR**

Co-Author(s): Samendra **KARKHUR**, Fazil **KHURRUM**, Richa **NYODU**, Bhavana Sharma **SHARMA**, Ria **SHARMA**

Bilateral Necrotizing Retinitis in a Patient with Dermatomyositis under Immunomodulatory Therapy

First Author: Anthony **LIN**

Bilateral Panuveitis with Meningitis: A Case Report

First Author: Juhy **CHERIAN**

Co-Author(s): Hannah **RANJEE**, Renuka **SRINIVASAN**

Biological Potential and Therapeutic Effectiveness of Eupatorin in Anti-Inflammatory Disorder: Medicinal Uses and Pharmacological Importance

First Author: Dinesh **PATEL**

Case Report of Post-Typhoid Neuroretinitis: A Rare Cause of Visual Morbidity

First Author: Charmaine **MALABANAN**

Co-Author(s): Redentor **GONZALES**

Case report: Unilateral Herpes Zoster Anterior Uveitis after Contralateral Cataract Surgery

First Author: Siti Nur Amira **ABU KASSIM**

Co-Author(s): Wan Haslina **HALIM**, Ong **MING YEAN**, Othmaliza **OTHMAN**, Meng Hsien **YONG**

Clinical Profile and Visual Prognosis of Patients with Presumed Ocular Tuberculosis

First Author: John Philip **UY**

Co-Author(s): Jessica Marie **ABAÑO**

Life for Sight

First Author: Joseph **DANASAMY**

Co-Author(s): Mariam **AHMAD**, Tajunisah **IQBAL**, Pooi Wah **LOTT**, Amir **SAMSUDIN**

Multimodal Imaging of Multiple Evanescent White Dot Syndrome in a 12-Year-Old Girl

First Author: Te-an **WANG**

Multimodal Imaging of a Case of Bilateral Lupus Neuroretinopathy, Vasculitis and Choroidopathy

First Author: Divya **YADAV**

Co-Author(s): Murugan **BALA**, Nikita **SONAWANE**

Necrotizing Scleritis with Secondary Exudative Retinal Detachment associated with Ocular Tuberculosis: A Case Report

First Author: Diane **CO**

Co-Author(s): Jessica Marie **ABAÑO**

Orbital Infarction Syndrome after Functional Endoscopic Sinus Surgery

First Author: Ellen **YU-KEH**

Co-Author(s): Fm **QUILING**

Relationship between Uveitis and Thyroid Disease: A 13-Year Nationwide Population-based Cohort Study in Taiwan

First Author: Chun-ju **LIN**

Co-Author(s): Cheng-hsien **CHANG**, Ning-yi **HSIA**, Chun-ting **LAI**, Peng Tai **TIEN**

Severe Anterior Uveitis as a Rare Presentation of Ocular Sporotrichosis

First Author: Dalal **MAHGOUN**
Co-Author(s): Sarah Murniati **CHE MAT NOR**,
Zunaina **EMBONG**, Qi **NGOO**, Nik Nurfarhana **NIK MOHD NOOR**

Successful Non-Invasive Management of Highly Motile Intravitreal Worm in Epiretinal Plane

First Author: Divya **YADAV**
Co-Author(s): Harsh **SINGH**, Nikita **SONAWANE**

Sushi Lovers, Beware!

First Author: Adeline **LOW**
Co-Author(s): Tajunisah **IQBAL**, Azida Juana **KADIR**

Vision Threatening Intraocular Involvement of COVID-19

First Author: Kamrul **HASAN**
Co-Author(s): Murad **HASAN**, Billal **HOSSAIN**, Mizan **MOLLAH**, Tanvir **AHMED**

Ocular Imaging

Anaglyph Glasses and Virtual Reality Headsets for Watching 3D Ophthalmic Content

First Author: John **AKKARA**
Co-Author(s): Anju **KURIAKOSE**

Clinical Characteristics of Eyes Showing a Discrete Margin of Different Retinal Reflectivity

First Author: Sohee **JEON**

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Evaluation of Dosing Regimen Patterns and Treatment Adherence to Anti-VEGF Therapy for Management of Proliferative Diabetic Retinopathy: Perspective from Indian Ophthalmologists and Retina Specialists

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Intravitreal Aflibercept in Routine Clinical Practice: 12-Month Results from the Taiwanese Cohort of Treatment-Naïve Patients with Macular Edema secondary to Retinal Vein Occlusion in the AURIGA Study

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Recurrent Macular Edema and Optic Neuropathy in Patient with Retinitis Pigmentosa

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Retinal Manifestations Lead to the Diagnosis of Blood Cancer – Leukemia: A Case Report

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Retinal Microvascular Changes in Non-Diabetic Chronic Kidney Disease on Hemodialysis: An Optical Coherence Tomography Angiography-Based Study

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Risk of Intraocular Inflammation following Intravitreal Injection of Anti-Vascular Endothelial Growth Factor Agents: A Network Meta-Analysis

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Role of Dual Inhibition of Ang-2 and VEGF-A in Patients with Macular Edema due to Branch or Central/Hemiretinal Retinal Vein Occlusion: Rationale and Design of the Faricimab Phase 3 BALATON and COMINO Trials

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Role of Intravitreal Aflibercept in Radiation Maculopathy secondary to Plaque Brachytherapy in Choroidal Melanoma Resistant to Bevacizumab: Case Series

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Size of Hemorrhage, Age of Onset and Diagnosis of Polypoidal Choroidal Vasculopathy are Important in Predicting Visual Outcome in Patients with Neovascular Age-Related Macular Degeneration Presenting with Subfoveal Hemorrhage

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The Efficacy of Subtenon Triamcinolone Acetonide Injection on Choroidal Structure by Perfusion of Retinal Plexus and Choriocapillaris in Patients with Retinitis Pigmentosa who had Cystoid Macular Edema Refractory to Carbonic Anhydrase Inhibitors

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Treatment Burden of Neovascular Age Related Macular Degeneration in a Malaysian University Hospital Setting

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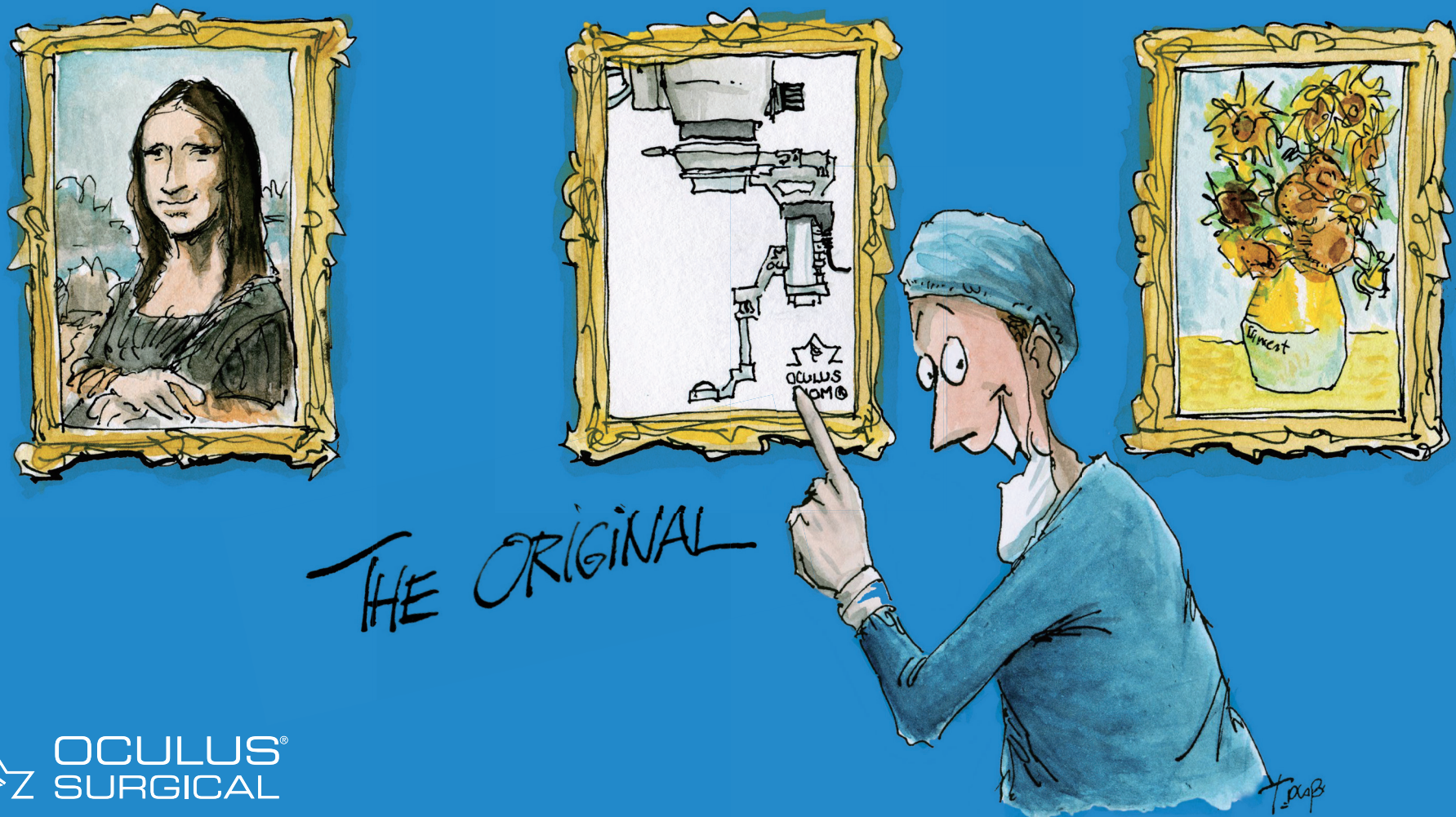
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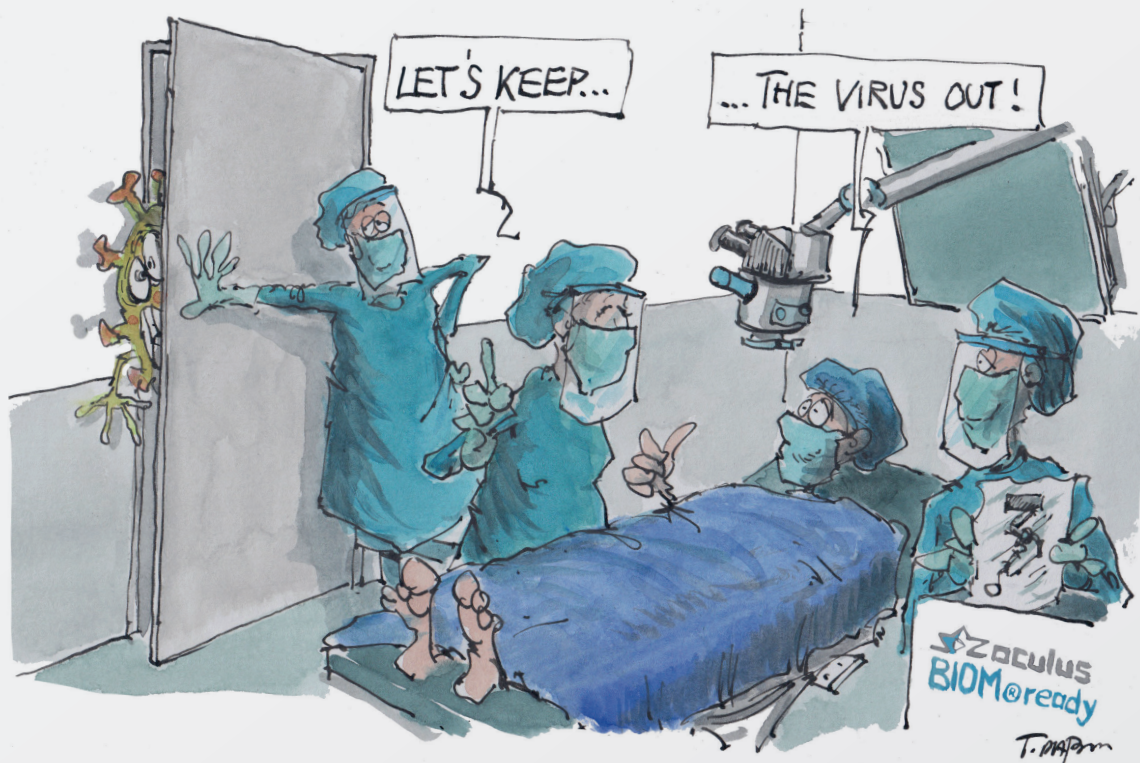
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15:45 - 16:45	Allergan	Allergan Sponsored Symposium 1	Livestream 1
15:45 - 16:45	Alcon	Advancements in Vitreoretinal Technologies and Techniques	Livestream 2
18:15 - 19:15	Bayer	Achieving Benefits for Patients Through Proactive, Individualized T&E in nAMD and PCV	Livestream 1
20:45 - 21:45	Nidek	The Science and The Art of Multimodal Imaging / Retina Imaging	Livestream 1
Dec 12, 2021 (Sun)			
12:00 - 13:00	Bayer	Optimising the Management of DME: Improving Patient Outcomes	Livestream 1
12:00 - 13:00	Alcon	Evolution in Surgical Techniques - The Modern VR Procedure	Livestream 2
15:45 - 16:45	Allergan	Allergan Sponsored Symposium 2	Livestream 1
15:45 - 16:45	Nikon	Optos True Ultra-Widefield (UWF™) The Gold Standard of Retinal Imaging: Clinical Applications and Future Trends	Livestream 2
18:15 - 19:15	Roche	Optimising nAMD and DME Management through Longer-Acting Therapies	Livestream 1
18:15 - 19:15	Apellis	Key Learnings and Recent Advances in Geographic Atrophy (GA)	Livestream 2

DISCOVER HARMONY

A FULL-SCALE DATA MANAGEMENT
& TELEHEALTH PLATFORM FOR
EYE CARE



INCREASE EFFICIENCY

Harmony's integrated workflow enables patient information to flow seamlessly from your EMR to the device, through Harmony and back, reducing human errors and enhancing practice efficiency.

- ✓ Connect all your devices regardless of their type and brand
- ✓ Seamless integration of EMR's and PACS



GAIN CONFIDENCE IN YOUR CLINICAL DECISION MAKING

Gain confidence in your clinical decision making through fast, automatic image analysis and 2nd opinion support whenever needed.

- ✓ Use Artificial Intelligence analysis at the click of a button



EXCELLENT USABILITY

Easily access and view all patient examination data through your browser from anywhere at any time.

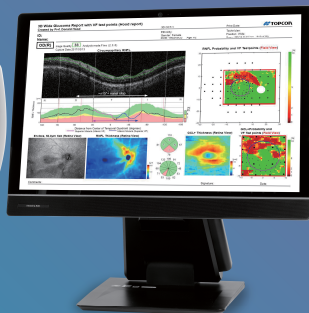
- ✓ Complete exam history overview at a glance
- ✓ Fast launch of images
- ✓ Customisable report templates - unique to each user or organisation



IMPROVE COMMUNICATION WITH YOUR PEERS

Improve communication, enjoy flexible working and facilitate shared care opportunities with telehealth.

- ✓ Secure portal for internal and external referrals and second opinions, accessible by accredited specialists from anywhere at any time.

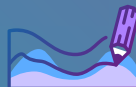


One Scan.
One Report.
One Instrument.

With Maestro2, Now You Can.*



Streamlines the decision making process



OCT NSTIN B-scan of Circumpapillary RNFL, 4 Sector & 12 Clock Hours with Reference Database



Correlation of OCT GCL / RNFL Data (Structure) with Visual Field Test Locations (Function)



Wide Field OCT
Enface Image (12mm x 9mm area)



Wide Field RNFL Thickness Map
(12mm x 9mm area) and
Probability Map



Macular GCL + IPL
Thickness Map &
Probability Map

Not available in all countries. Please check with your local distributor for availability in your country.

**Available with IMAGEnet6*

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 **TOPCON Healthcare**

SEEING EYE HEALTH DIFFERENTLY