

# MISO-ASM 2019

CODE RED IN OPHTHALMOLOGY

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**THE 10<sup>TH</sup> MSO  
ANNUAL SCIENTIFIC MEETING**

*in conjunction with*

**THE 34<sup>TH</sup> MALAYSIA-SINGAPORE  
JOINT OPHTHALMIC CONGRESS**

22 – 24 MARCH 2019 | SASICC & Zenith Hotel, Kuantan, Pahang

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# **WELCOME MESSAGE BY DEPUTY PRIME MINISTER** **YAB DATO' SERI DR WAN AZIZAH DR WAN ISMAIL**

It gives me great pleasure to congratulate the Malaysian Society of Ophthalmology (MSO) on the occasion of their 10th Annual Scientific Meeting (MSO-ASM 2019) in conjunction with the 34th Malaysia-Singapore Joint Ophthalmic Congress.

As a former fellow Ophthalmologist, I was one of the members of the Malaysian Medical Association Ophthalmological Society (MMAOS) more than 20 years ago. It was a friendly society and due to the small number of Ophthalmologists in the country, we knew each other very well. As the MMAOS grew, it transformed into MSO. The MSO is recognised nationally and internationally as the society representing Ophthalmologists in Malaysia and I am pleased with their progress and activities.

In particular, I am impressed with the free diabetic retinopathy screening project run by the society over the last 5 years and the many international meetings hosted like the APACRS 2015, APVRS 2017, and the upcoming APGC 2020 and APAO 2021. All these serve to improve the standards of care of Ophthalmology in the country and also to raise its profile internationally.

Eye health is an important aspect of our overall national plan. While our public service provides good basic eye healthcare, the role of non-governmental organisations like MSO is crucial in improving the standards of the profession and in eye care. The launch of the Malaysian Journal of Ophthalmology today is one such step that can allow our researchers to share their work and encourage continuous research in the field of Ophthalmology and Visual Sciences.

I wish you a fruitful meeting and hope we can learn something new in the field of Ophthalmology to take back with us from Kuantan.



**DATO' SERI DR WAN AZIZAH DR WAN ISMAIL**  
*Deputy Prime Minister of Malaysia*



## **WELCOME MESSAGE BY MSO PRESIDENT DR KENNETH FONG CHOONG-SIAN**



Dear friends and colleagues,

It gives me great pleasure to welcome you all to our 10th annual scientific meeting in conjunction with the 34th Malaysia-Singapore Joint Ophthalmic Congress. This is the first time that we are having this meeting in Kuantan and special thanks must go to the local organising team led by Assoc Prof Khairidzan Mohd Kamal and Asst Prof Nurfahmi Ahmad for their hard work in making this happen. We are always delighted to welcome our Singaporean friends to Malaysia and the Singapore Society of Ophthalmology has been extremely supportive of our long standing joint meetings.

I am so pleased to announce that our very own Malaysian Journal of Ophthalmology (MyJO) will be launched at this meeting. This is a culmination of years of efforts by all of us and a special note of thanks must go to the Editor in Chief of the MyJO, Prof Liza Sharmini Ahmad Tajuddin, and her deputy Editor, Assoc Prof Norlina Mohd Ramli, for making this happen. I am certain that the launch of this peer-reviewed scientific journal will help improve the standards of research and clinical care of Ophthalmology in Malaysia.

As always, this meeting would not be possible without the support of all our sponsors. The MSO annual meeting has now become an important local meeting that regularly gets more than 500 delegates attending. Despite the challenging economic times, the MSO is so pleased with the continued support of all our sponsors (old and new) and would like to thank them for their confidence in us.

Finally, I hope that you will enjoy your time in Kuantan and are able to renew old friendships and make new friends as well as update your knowledge in emergency Ophthalmology.

**DR KENNETH FONG CHOONG-SIAN**  
*President*  
*Malaysian Society of Ophthalmology*

# WELCOME MESSAGE BY ORGANISING CHAIRMAN

## ASSOC PROF DR AMIR SAMSUDIN



Dear Friends and Colleagues,

On behalf of the Malaysian Society of Ophthalmology (MSO), I would like to welcome you all to the 10th Malaysian Society of Ophthalmology Annual Scientific Meeting, held in conjunction with the 34th Malaysia-Singapore Joint Ophthalmic Congress. As you may already know, these annual meetings are organised to keep our local ophthalmology practice up to international standards, by promoting Continuous Medical Education and Continuous Professional Development. Additionally the programme is structured to enable participants to meet, network and exchange expertise in their various subspecialty areas.

The theme for this meeting is “Code Red in Ophthalmology”, and the three-day programme will focus on case-based approaches for urgent problems in paediatric, neuro-ophthalmology, glaucoma, cornea, retina, oculoplastic and other ophthalmology subspecialties. We will also showcase exciting oral and poster presentations, particularly by ophthalmologists in training. Additionally, during part of this meeting, we will also have a separate session for our Allied Health colleagues. Finally, we will also launch the newly-formed Malaysian Journal of Ophthalmology.

We are extremely grateful to our esteemed guest speakers who have volunteered their time and expertise in order to enlighten us with their talks. Our partners and sponsors from the industry have contributed generously to enable us to have this annual meeting in the most comfortable setting. Finally, I would also like to thank the organising committee who have worked extremely hard to make this event happen, and run smoothly.

I hope that you will find this meeting educational, stimulating, and enjoyable. Once again, a heartfelt thank you to all the delegates, speakers, sponsors, and committee members, without all of whom none of this would be possible. Have a great meeting!

**ASSOCIATE PROFESSOR DR AMIR SAMSUDIN**

*Organising Chairperson*

*The 10th Malaysian Society of Ophthalmology Annual Scientific Meeting*

## **WELCOME MESSAGE BY SCIENTIFIC CHAIRMAN**

# **ASSOC PROF DR KHAIRIDZAN MOHD KAMAL**



It is a great honour and my pleasure to welcome all of you to the 10th MSO Annual Scientific Meeting (MSO-ASM) in conjunction with the 34th Malaysia-Singapore Joint Ophthalmic Congress (MSJOC) 2019 in Kuantan. Kuantan is the state capital of Pahang, deemed to be the gateway to the scenic East Coast of Peninsular Malaysia. For this year's annual pre-eminent meeting, I am proud that it is to be held in Kuantan for the very first time, and I do hope it will not be the last.

"Code Red in Ophthalmology" is chosen as the theme for this year's meeting as it reflects the need for Ophthalmologists across different subspecialties to share their views and knowledge on ocular emergencies. The meeting will be featuring 62 renowned local and international speakers, presenting the latest updates, strategies and approaches to emergencies in the major ophthalmic subspecialties.

Throughout the three days, 15 different sessions and courses are planned out to be delivered. This would not be possible without the cohesive cooperation from the esteemed speakers from both Malaysia and Singapore, who have agreed to participate and make time from their busy schedule to be with us.

I would like to extend my deepest appreciation to Assoc Prof Dr Shuan Dai from Australia and Assoc Prof Dr Carmen Chan Kar Mun from Hong Kong, who will be travelling to Malaysia and join us as keynote speakers as well as participating in the sessions.

For many years, the MSO-ASM and MSJOC have always been the preferred platform for ophthalmologists in training to participate in the free paper sessions and poster presentations. The overwhelming number of submitted abstracts is the proof that the meeting is certainly the avenue for knowledge sharing. The Young Ophthalmologists (YO) programme is also designed to cater to the general and specific needs of the trainees.

Special thanks to the Scientific Committee members who have worked tirelessly to ensure that this event is successful in meeting its traditional academic spirits that have always been maintained throughout its previous editions.

I would also like to express my heartfelt appreciation to Dr Kenneth Fong, Assoc Prof Dr Amir Samsudin and MSO committee members for their endless supports, contributions and assistance.

It is my sincere hope that all of us will greatly benefit from this meeting and at the same time, do enjoy Kuantan's offerings of warm local hospitality, scenic nature and scrumptious gastronomic delight. We wish that it will be a fruitful and enjoyable experience for you to be in MSO-ASM 2019 in Kuantan, Pahang.

With very best regards,

**ASSOC PROF DR KHAIRIDZAN MOHD KAMAL**  
*Chairperson, Scientific Committee*  
*The 10th Malaysian Society of Ophthalmology Annual Scientific Meeting*

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## ORGANISING COMMITTEES

# MSO COMMITTEE MEMBERS 2017 - 2019



**PRESIDENT** Dr Kenneth Fong Choong-Sian

**VICE PRESIDENT** Dr Miswan Muiz Mahyudin

**HONORARY SECRETARY** Dr Manoharan Shunmugam

**TREASURER** Dr Lee Ming Yueh

**ASSISTANT HONORARY SECRETARY** Assoc Prof Dr Amir Samsudin

**COMMITTEE**  
Dr Fang Seng Kheong  
Dato' Dr Mohd Johari  
Dr K John Mathen  
Dr Shelina Oli Mohamed

## ORGANISING COMMITTEES

### ORGANISING COMMITTEE LIST

<b>ORGANISING CHAIRMAN</b>	Assoc Prof Dr Amir Samsudin
<b>LOCAL ORGANISING HOST</b>	Asst Prof Dr Ahmad Nurfahmi Akhtar Ali
<b>SCIENTIFIC CHAIRMAN</b>	Assoc Prof Dr Khairidzan Mohd Kamal
<b>SCIENTIFIC CO-CHAIRMAN</b>	Dr K John Mathen
<b>SCIENTIFIC COMMITTEE</b>	Asst Prof Dr Ahmad Nurfahmi Akhtar Ali (Paramedics Programme) Dr Miswan Muiz Mahyudin (Young Ophthalmologists Programme) Asst Prof Dr Zulhilmi Abdul Razak (Paramedics Programme) Dr Lee Ming Yueh (Free Paper and Posters) Dr Shelina Oli Mohamed (Free Paper and Posters)
<b>TRADE AND EXHIBITION</b>	Assoc Prof Dr Amir Samsudin Dr Manoharan Shunmugam
<b>PUBLICATION</b>	Dr K John Mathen
<b>SOCIAL PROGRAMME</b>	Dato' Dr Mohd Johari

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**References:**

1. IMS2015Q4 2. Cravit approved product insert 3. Rinsho Ganka(Jpn.J.Clin.Ophthalmol)62(13):2007-2017, 2008

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## MEETING INFORMATION

# GENERAL INFORMATION FOR ATTENDEES

### NAME BADGES

Registered delegates are to wear their name badges at all times during the Meeting for identification and security purposes. Admission to all Meeting sessions and official functions are based on identification badges.

### STARTING TIME FOR SESSIONS

All the sessions will begin strictly on time, following the Programme Timetable printed on the pages 14 - 17 of this book. Please be punctual if you wish to follow the session.

### TEA BREAKS

Venue : Cashmere Ballroom & Cashmere Foyer,  
Level 3, Sultan Ahmad Shah International  
Convention Centre (SASICC)

22 March 2019 : 1000 - 1020 hrs  
1600 - 1620 hrs

23 March 2019 : 1030 - 1100 hrs  
1600 - 1630 hrs

24 March 2019 : 1030 - 1050 hrs

### LUNCH

22 March 2019 : 1230 - 1430 hrs  
Lunch will be served in The Dining Room,  
Lobby Level, The Zenith Hotel.

23 March 2019 : 1300 - 1430 hrs  
Lunch box can be collected at Silk  
Ballroom Foyer, Level 3, Sultan Ahmad  
Shah International Convention Centre  
(SASICC).

Lunch Symposium on 23 March is  
sponsored by Bayer Co. (Malaysia) Sdn  
Bhd.

### INTERNET ACCESS

Free Wi-Fi is available at the Meeting area. Please obtain the Wi-Fi password from The Zenith Hotel Business Centre.

### HANDPHONES

We would greatly appreciate your co-operation to switch off or place your handphones on silent mode when you are in the presentation hall.

### SPEAKER READY ROOM

Speaker ready room is located at Zenith 5, Level 3, The Zenith Hotel.

### CAR PARK

First 3 Hours - RM2.00  
Subsequent 1 Hour or part thereof - RM1.00  
Exceeding 7 Hours and more - RM6.00  
Overnight Parking (more than 24 Hours) - RM20.00

For hotel guests, complimentary parking is provided. Kindly validate your parking ticket at the Concierge, The Zenith Hotel before departing.

### VENUE

Sultan Ahmad Shah International Convention Centre (SASICC) & The Zenith Hotel, Kuantan  
Jalan Putra Square 6, Putra Square, 25200 Kuantan, Pahang Darul Makmur, Malaysia

### PRAYER ROOM

The Prayer Room is located on Level 2, Sultan Ahmad Shah International Convention Centre (SASICC).

### MOSQUE (for Friday Prayer)

The nearest mosque will be Masjid Tepian Putra, which is 8 minutes walk (1km) from the venue.

### SOCIAL PROGRAMME

#### Opening Ceremony

Date : 23 March 2019  
Time : 0830 - 1030 hrs  
Venue : Organza Ballroom, Level 3, Sultan Ahmad Shah International Convention Centre (SASICC)

Dress code : Formal

Guest of Honour: YBhg Dato' Dr Haji Bahari bin Dato' Tok  
Muda Hj Awang Ngah  
Director of Medical Development  
Division, Ministry of Health, Malaysia

#### MSO-ASM 2019 Dinner

Date : 23 March 2019  
Time : 1930 hrs - End  
Venue : Exhibition Hall A, Level 1, Sultan Ahmad Shah International Convention Centre (SASICC)

Dress Code : Smart Casual

## CPD ACCREDITATION

### MALAYSIAN MEDICAL ASSOCIATION (MMA)

CPD points will be awarded to members who attend MSO-ASM 2019 accordingly:

2 Days: (23 & 24 March 2019)

Delegate	: 16 points
Speaker (free paper/short paper/poster)	: 10 points
Speaker (plenary lecture/long paper)	: 10 points
Speaker (lecture presentation)	: 5 points

How to collect the points:

- CPD attendance will be recorded via the MMA Scanner App.
- This Scanner will be available at:  
Venue: Registration Counter, The Zenith 6,  
Level 3, The Zenith Hotel

Scanner Opening Times:

22 March 2019 : 1100 – 1700 hrs  
23 March 2019 : 1030 – 1700 hrs  
24 March 2019 : 0900 – 1300 hrs

- \* MMA members are required to download the MMA Event/CPD app onto their mobile phone (please use this link: <http://onelink.to/mmaapp>). To view/download the App user guide, please visit <https://1drv.ms/b/s!AtchTRgjMW1aitsALGvh8xO4fFevIQ>
- \*\* MMA Members should log in using the same email and password used for the MMA website.
- \*\*\* Please visit Google Play or App Store and search for MMA Malaysia to download the app or scan this QR code:



## MINISTRY OF HEALTH (MOH), MALAYSIA

CPD points will be awarded to members who attend MSO-ASM 2019 accordingly:

### Registered Nurses / Assistant Nurses

1 Day	: 10 Points
2 Days	: 15 Points
3 Days	: 20 Points

### Optometrists

1 Day	: 10 Points
3 Days	: 20 points

### Assistant Medical Officers

#### (formerly known as Paramedics)

1 Day (5 - 8 hours)	: 3 Points
3 Days (5 - 8 hours each day)	: 20 Points

How to collect the points:

- Members are required to complete and sign the CPD Sign In Sheet at:  
Venue: Registration Counter, The Zenith 6,  
Level 3, The Zenith Hotel

Sign-In Opening Times:

22 March 2019 : 1100 – 1700 hrs  
23 March 2019 : 1030 – 1700 hrs  
24 March 2019 : 0900 – 1300 hrs

## EXHIBITION OPENING HOURS

Exhibition Area is located at Cashmere Ballroom, Level 3, Sultan Ahmad Shah International Convention Centre (SASICC).

22 March 2019 : 0830 – 1730 hrs  
23 March 2019 : 0830 – 1730 hrs  
24 March 2019 : 0830 – 1230 hrs

## E-CERTIFICATE OF ATTENDANCE

E-Certificate will be emailed to all registered delegates within 1 week after the meeting.

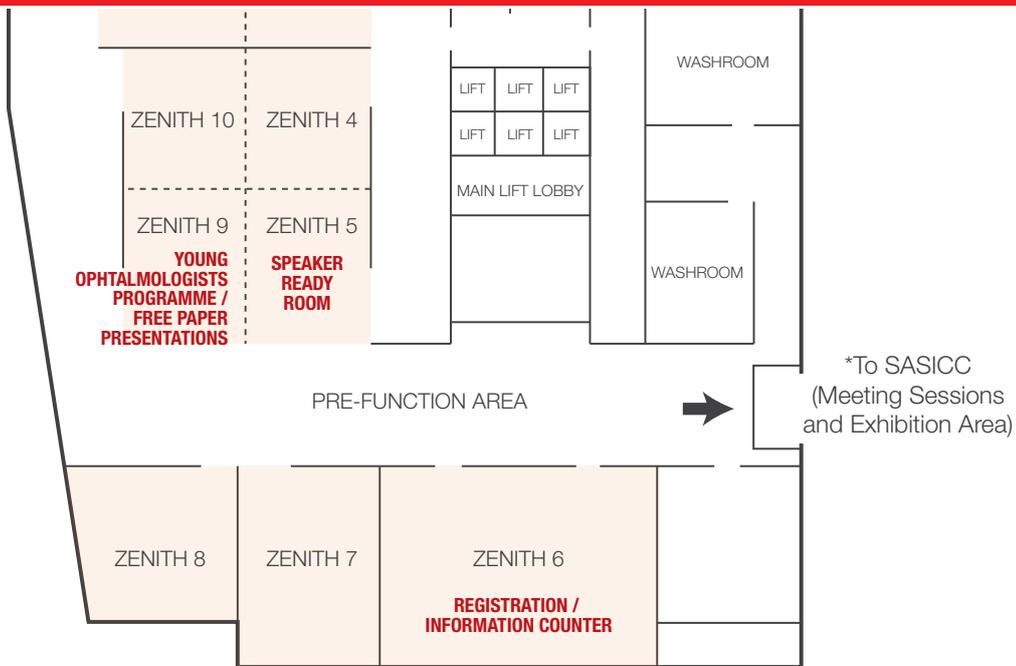
## DISCLAIMER

The organisers reserve the right to make changes in the scheduled programmes in the event of unforeseen or unavoidable circumstances.

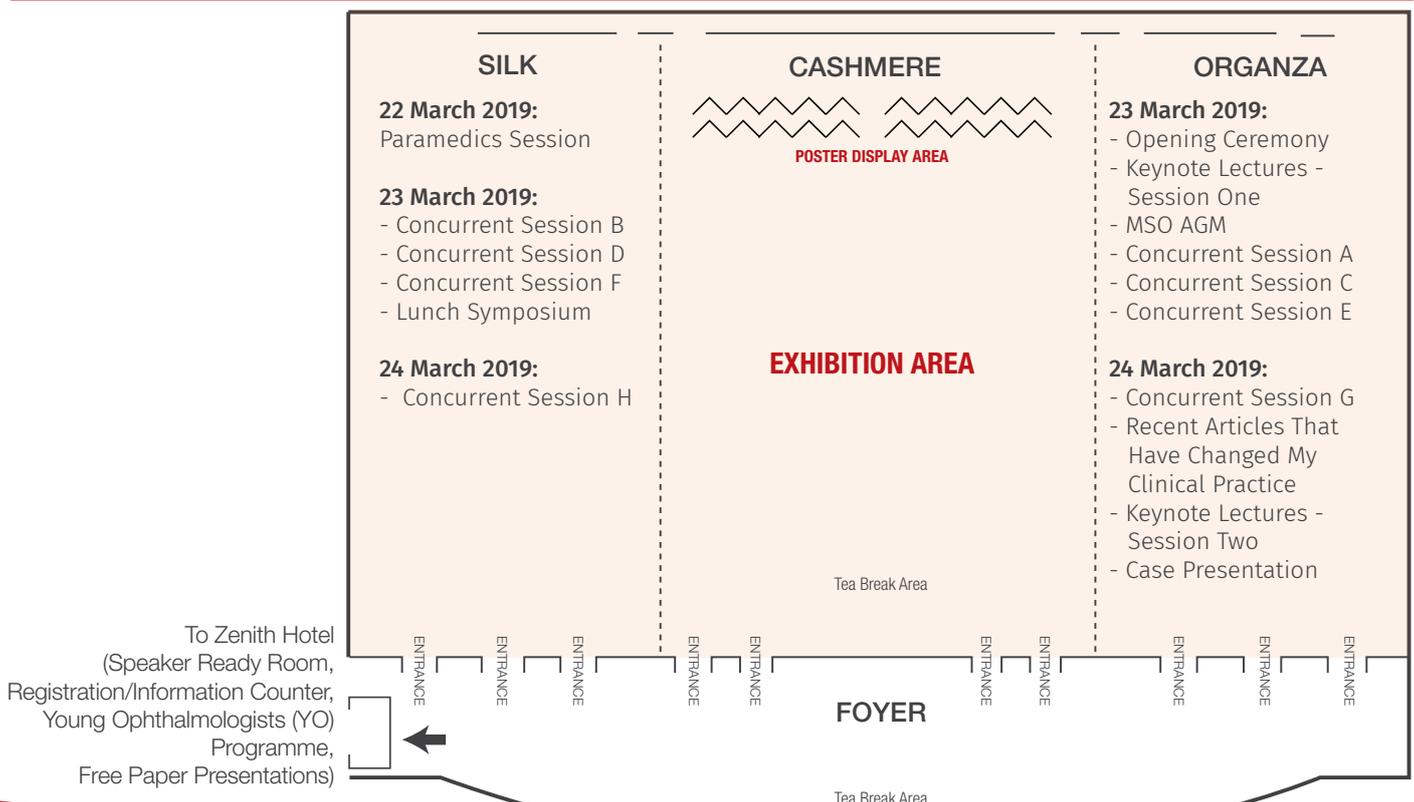
# MEETING VENUE LAYOUT

## VENUE INFORMATION

### Level 3, The Zenith Hotel, Kuantan



### Level 3, Sultan Ahmad Shah International Convention Centre (SASICC), Kuantan



# SPEAKERS

## KEYNOTE SPEAKERS



**ASSOC PROF DR SHUAN DAI**  
Australia

DATE: 23 MARCH 2019

TIME: 1000 - 1015 hrs

**KEYNOTE LECTURE - SESSION ONE**  
**TELEMEDICINE & AI FOR ROP CARE**

*Dr Shuan Dai is the director of Ophthalmology, Children's Health Queensland Hospital and Health Service and Queensland Children's Hospital in Brisbane, Australia. He is the current president of the Royal Australia & New Zealand Strabismus Society. Dr Dai specialises in Paediatric Ophthalmology & Adult Strabismus and is well known for his expertise in paediatric neuro-ophthalmology, paediatric low vision and ROP telemedicine. Shuan is actively involved in government health policy development in the area of paediatric eye care among various health professionals, as well as in clinical education and research.*



**ASSOC PROF DR KHAIRIDZAN MOHD KAMAL**  
Malaysia

DATE: 23 MARCH 2019

TIME: 1015 - 1030 hrs

**KEYNOTE LECTURE - SESSION ONE**  
**PTERYGIUM: FROM BEDSIDE TO THE BENCH**

*Dr Khairidzan is currently the Associate Professor and Head of the Department of Ophthalmology in the Faculty of Medicine, International Islamic University Malaysia (IIUM). He is also the present Director of Cornea, External Disease and Refractive Surgery Services at IIUM Eye Specialist Clinic, Kuantan. Dr Khairidzan spent a year as an Adjunct Clinical Instructor and International Fellow in Cornea, External Disease and Refractive Surgery at the UCLA in 2008. In addition to receiving 7 awards from the IIUM for quality research, he also won the Best Poster award at the Malaysia-Singapore Ophthalmology Joint Meeting in 2009 and the recipient of the Malaysian Society of Ophthalmology Achievement Award and Asia Pacific Association of Cataract and Refractive Surgery Certified Educator Award in 2018.*



**ASSOC PROF DR CARMEN CHAN**  
Hong Kong

DATE: 24 MARCH 2019

TIME: 1050 - 1105 hrs

**KEYNOTE LECTURES - SESSION TWO**  
**THE ROLE OF OPTICAL COHERENCE TOMOGRAPHY IN ACUTE**  
**NEURO-OPHTHALMIC DISEASE**

*Dr Chan received her medical training from the University of Cambridge and the University of London, UK. She obtained her MRCP qualification before her ophthalmology training in the UK and in Hong Kong. She received fellowship training in neuro-ophthalmology from Dr Neil Miller, Wilmer Eye Institute, US. She is currently a Consultant at the Hong Kong Eye Hospital, and Honorary Clinical Associate Professor at the Department of Ophthalmology and Visual Sciences of the Chinese University of Hong Kong. Dr Chan subspecialises in neuro-ophthalmology and uveitis.*



**PROF DR LIZA SHARMINI AHMAD TAJUDIN**  
Malaysia

DATE: 24 MARCH 2019

TIME: 1105 - 1120 hrs

**KEYNOTE LECTURES - SESSION TWO**  
**PRIMARY ANGLE CLOSURE GLAUCOMA IN MALAYS; ARE THEY DIFFERENT?**

*Professor Dr Liza Sharmini Ahmad Tajudin is an ophthalmologist and lecturer in Universiti Sains Malaysia, Malaysia. Her main research area is clinical and molecular research on glaucoma. She has nearly 16 years of experience in conducting clinical and molecular research and has completed 16 national and university research grants. She has published nearly 100 manuscripts with almost 500 citations. Besides being the senior consultant ophthalmologist and head of service for glaucoma in Hospital Universiti Sains Malaysia, she is also a life member of Malaysian Society of Ophthalmology, Malaysia Society of Human Genetics (MSHG), Asia Pacific Glaucoma Society, College of Ophthalmologists (Malaysia), Academy of Medicine Malaysia, Asia Eye Genetic Consortium and Asia Pacific Eye Genetic Society.*



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†In porcine eyes where leading haptic configuration was evaluated when the IOL reached its dwell position, 98% of implantations resulted in tucked delivery configurations (deep tuck and tuck looped). Testing completed with UltraSert® 3 mm nozzle tip.

1. AcrySof® IQ UltraSert® Pre-loaded Delivery System Directions for Use. 2. Weston K, Nicholson R, Bunce C, Yang YF. An 8-year retrospective study of cataract surgery and postoperative endophthalmitis: injectable intraocular lenses may reduce the incidence of postoperative endophthalmitis. *Br J Ophthalmol*. 2015;99(10):1377-1380. 3. Mendicute J, Pablo L, Velasque L, Martinez A, Asmar J, Schweitzer C. Multicenter evaluation of time, operational and economic efficiencies of a new pre-loaded IOL delivery system vs. manual IOL delivery. Paper presented at: ASCRS-ASOA Symposium and Congress; May 5-9, 2017; Los Angeles, CA. 4-5. Alcon data on file. 6. Wang L, Wolfe P, Chernosky A, Paliwal S, Tjia K, Lane S. In vitro delivery performance assessment of a new preloaded intraocular lens delivery system. *J Cataract Refract Surg*. 2016;42(12):1814-1820. 7. Alcon data on file.

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## SPEAKERS

# INVITED SPEAKERS

### MALAYSIA

**Dr Abdul Razak Koya Kutty**  
Malaysia  
Consultant Ophthalmologist,  
Pusat Pakar Mata Abdul Razak,  
Kedah

**Asst Prof Dr Adzura Salam**  
Malaysia  
Senior Consultant,  
International Islamic University  
Malaysia,  
Pahang

**Asst Prof Dr Ahmad Nurfahmi Akhtar Ali**  
Malaysia  
Ophthalmologist,  
International Islamic University  
Malaysia,  
Pahang

**Asst Prof Dr Aidila Jesmin Jabbari**  
Malaysia  
Consultant Vitreoretina,  
International Islamic University  
Malaysia,  
Pahang

**Dr Akmal Haliza Zamli**  
Malaysia  
Consultant Ophthalmologist &  
Oculoplastic Surgeon,  
Hospital Tengku Ampuan Afzan,  
Pahang

**Dr Alice Goh**  
Malaysia  
Consultant Ophthalmologist &  
Oculoplastic Surgeon,  
International Specialist Eye Centre,  
Kuala Lumpur

**Dr Aliff Irwan Cheong**  
Malaysia  
Senior Resident,  
University Malaya Medical Centre,  
Kuala Lumpur

**Dr Ang Ee Ling**  
Malaysia  
Head of Department,  
Consultant Vitreoretina Surgeon,  
Penang Hospital,  
Pulau Pinang

**Assoc Prof Dr Azhany Yaakub**  
Malaysia  
Senior Lecturer,  
Universiti Sains Malaysia,  
Kelantan

**Dr Azlan Musa**  
Malaysia  
Ophthalmology Lecturer,  
Universiti Teknologi MARA,  
Selangor

**Dr Chandramalar Santhirathelagan**  
Malaysia  
Consultant Ophthalmologist &  
Corneal Surgeon,  
Hospital Sg Buloh,  
Selangor

**Dr Fatin Hanisah Firman**  
Malaysia  
Senior Resident,  
Universiti Kebangsaan Malaysia  
Medical Centre,  
Selangor

**Dr Gan Eng Hui**  
Malaysia  
Ophthalmologist,  
Hospital Kuala Lumpur,  
Kuala Lumpur

**Dr Haizul Ikhwan Murat**  
Malaysia  
Head of Department Ophthalmology,  
Hospital Sultan Haji Ahmad Shah,  
Pahang

**Dr Hazlita Mohd Isa**  
Malaysia  
Consultant Ophthalmologist,  
Eyecare Setapak,  
Kuala Lumpur

**Dr Henry Ngoo**  
Malaysia  
Lecturer & Ophthalmologist,  
Universiti Sains Malaysia,  
Kelantan

**Dr Ho Shu Fen**  
Malaysia  
Consultant Ophthalmologist &  
Oculoplastic Surgeon,  
BP Diagnostic Centre,  
Perak

**Dr Jamalia Rahmat**  
Malaysia  
Consultant Ophthalmologist,  
Hospital Kuala Lumpur,  
Kuala Lumpur

**Dr Lee Ming Yueh**  
Malaysia  
Consultant Ophthalmologist &  
Glaucoma Surgeon,  
Ramsay Sime Darby Healthcare,  
Kuala Lumpur

**Dr Lee Seow Yeang**  
Malaysia  
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## MEETING PROGRAMME

### SCIENTIFIC PROGRAMME

#### Pre-Meeting - 22 March 2019 (Friday)

<b>Paramedics</b>		Venue: Silk Ballroom
<i>Chairpersons: Dr Fadzilah Hanim Rahim, Dr Nadhirah Ahmad Fauzi</i>		
0730 - 0830	Registration	Venue: Zenith 6
0830 - 0850	What important medical history should paramedics take in ophthalmic emergencies pertaining to trauma cases? <i>Dr Norfarizal Ashikin Abdullah</i>	
0900 - 0920	What important medical history should paramedics take in ophthalmic emergencies pertaining to non-trauma cases? <i>Asst Prof Dr Adzura Salam</i>	
0930 - 0950	How do paramedics perform eye screening in emergency settings? <i>Dr Haizul Ikhwan Murat</i>	
1000 - 1020	Tea Break	Venue: Cashmere Ballroom & Cashmere Foyer
1030 - 1050	When is an acute red eye case considered an ocular emergency? <i>Major (Dr) Nazihatul Fikriah Abd Halim</i>	
1100 - 1120	What should paramedics do when a patient complains of sudden vision loss? <i>Dr Rohana Abdul Rashid</i>	
1130 - 1150	How to handle patients presenting with severe eye pain? <i>Dr Tan Chai Keong</i>	
1200 - 1220	What is important for paramedics to know when examining the pupil? <i>Asst Prof Dr Aidila Jesmin Jabbari</i>	
Clinical skills transfer programme via video series		
1230 - 1430	Lunch	Venue: The Dining Room, Lobby Level
1430 - 1450	Proper way of administrating eye drops and eye ointments <i>Asst Prof Dr Zulhilmi Abdul Razak</i>	
1500 - 1520	Eye irrigation for chemical injuries <i>Major (Dr) Nazihatul Fikriah Abd Halim</i>	
1530 - 1550	The right way to apply light eye patches and pressure eye patches <i>Dr Mohamad Israk Mohamad Isa</i>	
1600 - 1620	The right way to apply eye shields <i>Dr Mohamad Israk Mohamad Isa</i>	
1630 - 1650	Gentle method to evert the eyelids <i>Asst Prof Dr Ahmad Nurfaahmi Akhtar Ali</i>	
1700 - 1720	Proper way to perform lid hygiene <i>Asst Prof Dr Ahmad Nurfaahmi Akhtar Ali</i>	

#### Pre-Meeting - 22 March 2019 (Friday)

<b>Free Paper and YO Programme</b>		Venue: Zenith 9
1430 - 1600	Free Paper Sessions <i>Asst Prof Dr Aidila Jesmin Jabbari, Dr Wong Chee Wai</i>	
1600 - 1620	Tea Break	Venue: Cashmere Ballroom & Cashmere Foyer
1620 - 1720	Young Ophthalmologists (YO) Programme <i>Chairpersons: Dr Miswan Muiz Mahyudin, Dr Wong Chee Wai</i> <i>Dr Aliff Irwan Cheong, Dr Azlan Musa, Dr Fatin Hanisah Firman, Dr Henry Ngoo, Dr Katherine Lun, Dr Nicola Gan, Dr Stephanie Young, Dr Wong Chee Wai</i>	

**Day 1 Meeting - 23 March 2019 (Saturday)**

0730 - 0830	Registration		Venue: Zenith 6
0830 - 1000	<b>OPENING CEREMONY AND WELCOMING SPEECH</b>		Venue: Organza Ballroom
	<p>Assoc Prof Dr Amir Samsudin Organising Chairman, MSO-ASM 2019</p> <p>Dr Victor Koh Representative of Singapore Society of Ophthalmology</p> <p>Dr Kenneth Fong Choong-Sian President, Malaysian Society of Ophthalmology (MSO)</p> <p>Guest of Honor <b>YBhg Dato' Dr Haji Bahari bin Dato' Tok Muda Hj Awang Ngah</b> Director of Medical Development Division, Ministry of Health, Malaysia</p> <p><b>Malaysian Journal of Ophthalmology (MyJO) Launch</b></p> <p><b>MSO Distinguished Service Awards</b></p>		
1000 - 1030	<b>Keynote Lectures – Session One</b> Chairperson: Dr Chin Pik Kee		
	<p>Telemedicine &amp; AI for ROP Care   Assoc Prof Dr Shuan Dai</p> <p>Pterygium: From bedside to the bench   Assoc Prof Dr Khairidzan Mohd Kamal</p>		
1030 - 1100	Tea Break		Venue: Cashmere Ballroom & Cashmere Foyer
1100 - 1200	<b>CONCURRENT SESSION A</b>	<b>CONCURRENT SESSION B</b>	Venue: Silk Ballroom
	<b>Code Red in Paediatric Ophthalmology</b> Chairpersons: Dr Jamalia Rahmat, Dr Chin Pik Kee	<b>Code Red in Neuro-Ophthalmology</b> Chairpersons: Prof Dr Wan Hazabbah Wan Hitam, Assoc Prof Dr Clement Tan Woon Teck	
	<p>How do I diagnose and treat corneal abrasions in paediatric patients? Dr Premadeva C Satkurunathan</p> <p>A child presents with acute esotropia. How should we work up the case? Dr Safnaz Mohd Khialdin</p> <p>What is my approach in dealing with kids with white pupils? Dr Norhafizah Hamzah</p> <p>How do i know which children presenting with acute red eyes are emergency cases? How do we manage them in clinic? Dr Sunder Ramasamy</p> <p>A mother complains that her child has sudden loss of vision. How do we deal with this urgent complaint? Assoc Prof Dr Nurliza Khaliddin</p> <p>A mother requests urgent transfer of care for her ROP child. What should the receiving Ophthalmologist prepare before accepting the case? Dr Nor Akmal Bahari</p>	<p>Papilloedema - a systematic approach Assoc Prof Dr Carmen Chan</p> <p>Typical and atypical optic neuritis – the differences Assoc Prof Dr Clement Tan Woon Teck</p> <p>AAION vs NA-AION Prof Dr Wan Hazabbah Wan Hitam</p> <p>Headache and visual symptoms – the dilemma Assoc Prof Dr Carmen Chan</p> <p>Approach to pupil abnormality Assoc Prof Dr Clement Tan Woon Teck</p> <p>Visual field defect – things to consider Prof Dr Wan Hazabbah Wan Hitam</p>	

**Day 1 Meeting - 23 March 2019 (Saturday)**

1200 - 1300	<b>CONCURRENT SESSION C</b> <small>Venue: Organza Ballroom</small>		<b>CONCURRENT SESSION D</b> <small>Venue: Silk Ballroom</small>	
	<b>Code Red in Glaucoma</b> <i>Chairpersons: Dr Lee Ming Yueh, Dr Victor Koh</i>		<b>Code Red in Cornea and External Disease</b> <i>Chairpersons: Dr K John Mathen, Dr Jean Chai Shu Ming</i>	
	IOP spike post trauma <i>Dr Gan Eng Hui</i>		Patient with recurrent erosion syndrome presented with painful teary eye. What surgical options do I have? <i>Dr Sujaya Singh</i>	
	Acute angle closure crisis <i>Dr Lee Ming Yueh</i>		Patient with rheumatoid arthritis presented with red, painful eye and stromal melt at the limbus. How should I treat her? <i>Dr Rohanah Alias</i>	
	Rubeotic Glaucoma - is it so hopeless? <i>Assoc Prof Dr Azhany Yaakub</i>		Patient came with sectorial conjunctival redness and pain in one eye. How should I manage her scleritis? <i>Dr Rosilah Mohamad</i>	
	High IOP post cataract surgery - causes and management <i>Assoc Prof Dr Norshamsiah Md Din</i>		Young kid presented with severe VKC and large corneal ulcer. How do I manage this? <i>Dr Chandramalar Santhirathelagan</i>	
IOP and filtering surgery <i>Datin Dr Thayanithi a/p Sandragasu</i>		Young adult with acne issues came with inflamed lid margin, diffuse PEE and corneal vascularization. What are my therapeutic options? <i>Dr Shamala Retnasabapathy</i>		
Red alert: under pressure <i>Dr Victor Koh</i>		Corneal Infection : Asian Perspective <i>Dr Jean Chai Shu Ming</i>		
1300 - 1430	<b>Lunch Symposium - Bayer Co. (Malaysia) Sdn Bhd</b>			<small>Venue: Silk Ballroom</small>
1430 - 1600	<b>MSO AGM</b>			<small>Venue: Organza Ballroom</small>
1600 - 1630	Tea Break			<small>Venue: Cashmere Ballroom &amp; Cashmere Foyer</small>
1630 - 1730	<b>CONCURRENT SESSION E</b> <small>Venue: Organza Ballroom</small>		<b>CONCURRENT SESSION F</b> <small>Venue: Silk Ballroom</small>	
	<b>Masterclass in Paediatric Ophthalmology</b> <i>Chairperson: Dr Sunder Ramasamy</i>		<b>Masterclass in Neuro-Ophthalmology</b> <i>Chairperson: Prof Dr Wan Hazabbah Wan Hitam</i>	
			<i>Panelists: Assoc Prof Dr Carmen Chan, Assoc Prof Dr Clement Tan Woon Teck</i>	
	Paradigm shift in amblyopia treatment <i>Assoc Prof Dr Shuan Dai</i>		Case presentation – 1 Panel Discussion	
	Neurological strabismus - approach & management <i>Assoc Prof Dr Shuan Dai</i>		Case presentation – 2 Panel Discussion	
1700 - 1715	Clinical approach to nystagmus diagnosis & surgery <i>Assoc Prof Dr Shuan Dai</i>		Case presentation – 3 Panel Discussion	
1715 - 1730	Q&A		Case presentation – 4 Panel Discussion	
1930	<b>MSO-ASM 2019 Dinner</b> <i>(Featuring Stand-Up Comedian Dr Jason Leong)</i>			<small>Venue: Exhibition Hall A, Level 1, Sultan Ahmad Shah International Convention Centre (SASICC)</small>
	<b>MSO Service Awards</b> <b>Free Paper and Poster Awards</b>			



**Day 2 Meeting - 24 March 2019 (Sunday)**

0830 - 0930	<b>CONCURRENT SESSION G</b> <span style="float: right;">Venue: Organza Ballroom</span> <b>Code Red in Retina and Uveitis</b> <i>Chairpersons: Dr Tara George, Dr Anna Tan</i> <p>Patient presented with unilateral severe anterior uveitis with hypopyon. What are the next steps to be taken?  <i>Dr Tara George</i></p> <p>Patient complained of floaters and blurring of vision. How do I know this is intermediate uveitis and how should I manage this patient?  <i>Dr Hazlita Mohd Isa</i></p> <p>How should I approach a patient with posterior/panuveitis with multifocal lesions in the fundus?  <i>Dr Shelina Oli Mohamed</i></p> <p>I see a patient with shaken baby syndrome, what should I do?  <i>Dr Jamalia Rahmat</i></p> <p>What lesions in the fellow eye of a patient with retinal detachment require treatment?  <i>Dr Manoharan Shunmugam</i></p> <p>OCT diagnosis not to be missed  <i>Dr Anna Tan</i></p>	<b>CONCURRENT SESSION H</b> <span style="float: right;">Venue: Silk Ballroom</span> <b>Code Red in Oculoplasty</b> <i>Chairpersons: Dr Alice Goh, Dr Sunny Shen</i> <p>When and how should I plan for surgical intervention in active dacryocystitis?  <i>Dr Ong Chin Tuan</i></p> <p>What is the best approach to orbital inflammatory syndrome?  <i>Dr Zurina Zainal Abidin</i></p> <p>A) Pitfalls in the management of eyelid and orbital trauma          B) Orbital Cellulitis - when to refer?  <i>Dr Ho Shu Fen</i></p> <p>Sight threatening vascular orbital emergencies - Tips and Pearls on management  <i>Dr Vanessa Naseem</i></p> <p>Blindness following dermal filler injections - How to manage and latest updates  <i>Dr Alice Goh</i></p> <p>Thyroid eye disease - Speed of stepping up  <i>Dr Sunny Shen</i></p>
0930 - 1030	<b>Recent articles that have changed my clinical practice</b> <span style="float: right;">Venue: Organza Ballroom</span> <i>Chairpersons: Assoc Prof Dr Amir Samsudin, Dr Sunny Shen</i> <p>Cornea   <i>Asst Prof Dr Ahmad Nurhafmi Akhtar Ali</i>          Oculoplastic   <i>Dr Sunny Shen</i>          Retina   <i>Prof Dr Mae Lynn Catherine Bastion</i>          Ocular Surgery   <i>Prof Dr Lim Lik Thai</i>          Glaucoma   <i>Prof Dr Liza Sharmini Ahmad Tajudin</i>          Comprehensive   <i>Dr Abdul Razak Koya Kutty</i></p>	
1030 - 1050	Tea break <span style="float: right;">Venue: Cashmere Ballroom &amp; Cashmere Foyer</span>	
1050 - 1120	<b>Keynote Lectures – Session Two</b> <span style="float: right;">Venue: Organza Ballroom</span> <i>Chairperson: Asst Prof Dr Ahmad Nurhafmi Akhtar Ali</i> <p>The role of optical coherence tomography in acute neuro-ophthalmic disease  <i>Assoc Prof Dr Carmen Chan</i></p> <p>Primary angle closure glaucoma in Malays; are they different?  <i>Prof Dr Liza Sharmini Ahmad Tajudin</i></p>	
1120 - 1220	<b>Case presentations</b> <span style="float: right;">Venue: Organza Ballroom</span> <i>Chairpersons: Dr Shelina Oli Mohammed, Dr Allan Fong</i> <p>Oculoplastic   <i>Dr Akmal Haliza Zamli</i>          Cornea   <i>Assoc Prof Dr Khairidzan Mohd Kamal</i>          Paediatric   <i>Dr Shuaibah Abd Ghani</i>          Retina   <i>Dr Ang Ee Ling</i>          Refractive   <i>Dr Lee Seow Yeang</i></p>	
1230 - 1330	Update from Academy of Medicine - MMC CPD point and grading system <span style="float: right;">Venue: Organza Ballroom</span> <i>Prof Dr Mae Lynn Catherine Bastion</i> <p style="text-align: center;">Q&amp;A</p>	



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## MSO AWARDS

The MSO presents its outstanding members with the MSO Distinguished Service Awards and the Service Awards. The achievement awards seek to recognise MSO members who have sacrificed their time and efforts to contribute to the Society or community. This includes being on scientific or organising committees of our annual and conjoint meetings with Singapore, regularly speaking at and chairing sessions at these conferences and any outstanding service or charitable activities undertaken for patients or the community.

The MSO would like to thank all the candidates for their dedication, contribution and excellence in the field and hope that together, we can bring this specialty to greater heights.

### DISTINGUISHED SERVICE AWARDS



*Prof Dr Abdul Mutalib Othman*



*Dr Shamala Retnasabapathy*

### SERVICE AWARDS



*Dr Manoharan Shunmugam*



*Dr Ong Chin Tuan*



*Dr Alice Goh Siew Ching*



*Dr Wong Hon Seng*



*Assoc Prof Dr Amir Samsudin*



*Dr Tiong Tung Hui*



*Dr Kursiah Mohd Razali*



*Dr Dennis Kong Ket Ming*

## FREE PAPER PRESENTATION

No	Abstract ID	Presentation Time	Presenter Name	Organisation	Paper title
Date: 22 March 2019		Time: 1430 - 1600 hrs		Venue: Zenith 9, Level 3, Zenith Hotel	
1	11	1430 - 1439 hrs	Mohd Ilham Bin Ismail	Department Of Ophthalmology, Hospital Universiti Sains Malaysia	Evaluation of macular and retinal nerve fibre layer thickness in children with type 1 diabetes mellitus
2	54	1439 - 1448 hrs	Norhayaty Bt Samsudin	Hospital Raja Perempuan Zainab II	A comparative study on the level of aqueous humour transforming growth factor-beta (TGF-β) in primary glaucoma
3	55	1448 - 1457 hrs	Val Phua Jun Rong	Singapore National Eye Centre	Retinopathy and risk of cardiovascular disease in asian adults with and without diabetes
4	121	1457 - 1506 hrs	Sarah Murniati Binti Che Mat Nor	Universiti Sains Malaysia	Evaluation of spontaneous retinal venous pulsation in malay patients with primary glaucoma
5	126	1506 - 1515 hrs	Nazaryna Marzuki	International Islamic University Malaysia	Evaluation of four calculators in determining surgically induced astigmatism values
6	130	1515 - 1524 hrs	Md Muziman Syah Md Mustafa	International Islamic University Malaysia	Comparison between predicted and actual surgically induced astigmatism (SIA) on the toric IOL calculation outcome using two toric intraocular lens (IOL) calculators
7	138	1524 - 1533 hrs	Goh Ee Pian	Hospital Kuala Lumpur	The clinical profile of optic neuritis with interethnic comparison
8	142	1533 - 1542 hrs	Muhammad Firdhaus Bin Zainudin	Hospital Tuanku Ampuan Najihah	Comparison of central corneal thickness & intraocular pressure between pre-menopause and post-menopause women with no dry eyes
9	144	1542 - 1551 hrs	Nur Hafizah Binti Maffar	Ophthalmology Department, Hospital Tuanku Ampuan Najihah	The association between visual field reliability indices and cognitive impairment in glaucoma
10	153	1551 - 1600 hrs	Murshidah Binti Hassan Basri	Universiti Kebangsaan Malaysia Medical Centre	Demographic comparison of patients undergoing retinal surgery between 2 referral centres: Indirect comparison between developed and developing country

Date: 22 March 2019

Time: 1430 - 1439 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 11** **EVALUATION OF MACULAR AND RETINAL NERVE FIBRE LAYER THICKNESS IN CHILDREN WITH TYPE 1 DIABETES MELLITUS****Dr Mohd Ilham Ismail, Prof Dr Shatriah Ismail, Dr Suhaimi Hussain, Dr Evelyn Tai Li Min***Department of Ophthalmology, Hospital Universiti Sains Malaysia*

**Objective:** The purpose of this study is to evaluate the macular and retinal nerve fibre layer (RNFL) parameters among children with Type 1 Diabetes Mellitus (T1DM) and compare with healthy controls in Hospital Universiti Sains Malaysia.

**Method:** This comparative cross-sectional study enrolled 41 paediatric patients with T1DM and 80 age-matched control subjects. Demographic information, clinical manifestation, visual acuity, duration of diabetes, blood pressure and body mass index (BMI) were documented. Glycosylated haemoglobin (HbA1c) levels, renal function and lipid level were collected from patient's recent blood reports. Macular and peripapillary RNFL thickness measurement obtained by spectral-domain optical coherence tomography (SD-OCT) were compared. Independent t-test for comparison of the group parameters and linear regression analyses were performed with SPSS statistical software 24.0 (SPSS Inc., Chicago, IL, USA).

**Results:** Children with Type 1 Diabetes Mellitus showed significantly thinner in the mean values of average macula, superior outer macula, nasal outer macula, mean RNFL and inferior RNFL compared to controls ( $p < 0.05$ ). Additionally, presence of renal impairment and hyperlipidaemia were significantly associated with thinning of RNFL.

**Conclusion:** Thinning of the average macula and mean RNFL in children with T1DM support the theory of neuro-degenerative changes in the absence of clinically detectable retinal vasculopathy. SD-OCT might be considered for early detection of diabetic retinopathy in children.

Date: 22 March 2019

Time: 1439 - 1448 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 54** **A COMPARATIVE STUDY ON THE LEVEL OF AQUEOUS HUMOUR TRANSFORMING GROWTH FACTOR-BETA (TGF- $\beta$ ) IN PRIMARY GLAUCOMA****Norhayaty Samsudin, Liza Sharmini Ahmad Tajudin, Che Maraina Che Hussin, Azriani Abdul Rahman, Siti Azrin Ab Hamid, Azhany Yaakub***Hospital Raja Perempuan Zainab II*

**Objective:** To compare the transforming growth factor-beta (TGF- $\beta$ ) level in aqueous humour of primary glaucoma patients and controls.

**Method:** A cross-sectional study was conducted involving 63 patients (32 primary glaucoma and 32 controls). Aqueous humour samples (75-100 $\mu$ l) were prospectively collected at the beginning of surgery from 32 eyes of primary glaucoma patients (16 POAG and 16 PACG) and 31 eyes of control subjects that underwent cataract operation and trabeculectomy surgery between November 2013 and February 2017. The concentration of TGF- $\beta$  levels was measured by using enzyme-linked immunosorbent assay test.

**Results:** The median concentration (interquartile range (IQR)) of TGF- $\beta$  in the aqueous humour of eyes with POAG was  $2587.50 \pm 3068.49$  pg/ml and  $1787.40 \pm 1650.37$  pg/ml in PACG. Median levels of TGF- $\beta$  were observed to be significantly higher both in the POAG group and PACG group compared to controls ( $p = 0.004$  and  $p = 0.015$ ). But there was no significant difference between POAG and PACG patients ( $p = 0.300$ ).

**Conclusion:** The aqueous humour TGF- $\beta$  level was significantly higher in eyes with primary glaucoma compared to control. TGF- $\beta$  level may play a role in pathogenesis of primary glaucoma.

Date: 22 March 2019

Time: 1448 - 1457 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 55** **RETINOPATHY AND RISK OF CARDIOVASCULAR DISEASE IN ASIAN ADULTS WITH AND WITHOUT DIABETES**

**Val Phua**

*Singapore National Eye Centre*

**Objective:** To examine the relation of retinopathy signs to risk of cardiovascular disease (CVD) in a multi-ethnic Asian population with and without diabetes.

**Method:** We conducted a 6-year population-based cohort study of 6,077 Asian ethnic participants (Chinese, Malays and Indians), aged 40 years or older, residing in the general communities of Singapore, with no history of CVD at baseline. Baseline retinopathy signs were ascertained from retinal photographs according to the modified Airlie House Classification at baseline examination. Incident CVD was defined based on self-reported myocardial infarction, angina pectoris or stroke ascertained from standardized questionnaire obtained at the 6-year follow-up examination.

**Results:** Over the 6 years of follow-up, there were 240 incident CVD. Participants with retinopathy signs were more likely to have developed a CVD than those without retinopathy (9.0% vs. 3.4%;  $p < 0.001$ ). In participants with diabetes, after multivariate adjustment, the association with CVD (Relative Risk [RR] 1.64; 95% Confidence Interval [CI]: 1.02, 2.63) and stroke (RR 3.10; 95% CI: 1.54, 6.23) remained statistically significant (P: 0.041 and 0.002 respectively) but not with myocardial infarction (MI) (P: 0.79). In these participants, DME was found to be associated with incident CVD (RR 3.31; 95% CI: 1.63, 6.72; P: 0.001), stroke (RR 4.28; 95% CI: 1.39, 13.17; P: 0.011) and myocardial infarction (RR 3.71; 95% CI: 1.51, 9.08; P: 0.004).

**Conclusion:** Independent of conventional cardiovascular risk factors, Asian participants in our study with signs of diabetic retinopathy had about 64% higher risk of developing CVD over a 6-year period.

Date: 22 March 2019

Time: 1457 - 1506 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 121** **EVALUATION OF SPONTANEOUS RETINAL VENOUS PULSATION IN MALAY PATIENTS WITH PRIMARY GLAUCOMA**

**Sarah Murniati Che Mat Nor, Sylves Patrick, Rasdi Abdul Rashid, Chan Hui Tze, Liza Sharmini Ahmad Tajudin**

*Universiti Sains Malaysia*

**Objective:** To determine the association between spontaneous retinal venous pulsation (SRVP) and primary glaucoma in Malays.

**Method:** A comparative cross-sectional study was conducted between March 2015 and February 2017 involving Malay patients with primary glaucoma and control subjects in Hospital Universiti Sains Malaysia. Patients with confirmed cases of primary open angle glaucoma (POAG) and primary angle closure glaucoma (PACG) were included. SRVP was assessed using the confocal scanning laser ophthalmoscope (Spectralis HRA). Severity of glaucoma was based on modified Advanced Glaucoma Intervention Study (AGIS) scoring system. Other predictors such as age, gender, systemic disease, blood pressure and pulse rate were also documented. Pearson chi-square test and Kruskal Wallis analyses were used. Pearson correlation was used to determine the correlation between rate of SRVP and glaucoma.

**Results:** A total of 103 patients (52 primary glaucoma patients and 51 control subjects) were recruited. Based on AGIS scoring; 24 mild, 9 moderate and 19 severe. Primary glaucoma patients were significantly older with higher number of men. There was statistically significant difference in the presence SRVP between primary glaucoma patients (46.2%) and control (74.5%) ( $p = 0.005$ ). However, there was no significant difference in the median rate of SRVP between primary glaucoma and controls ( $p = 0.799$ ). There was no significant association between SRVP and severity of glaucoma.

**Conclusion:** Absent SRVP may be a potential predictive factor for primary glaucoma. But rate of SRVP is not a predictor for severity of glaucoma.

Date: 22 March 2019

Time: 1506 - 1515 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 126** **EVALUATION OF FOUR CALCULATORS IN DETERMINING SURGICALLY INDUCED ASTIGMATISM VALUES**  
**Nazaryna Binti Marzuki, Md Muziman Syah Md Mustafa, Khairidzan Mohd Kamal, Noorhazayti Ab. Halim**

*International Islamic University Malaysia*

**Objective:** To compare the surgically induced astigmatism (SIA) values and the analysis report of four different SIA calculators.

**Method:** In this retrospective study, surgical data, preoperative and postoperative K-readings of 80 eyes (n = 72 subjects) that undergone uneventful phacoemulsification surgery were analysed. Four available online SIA calculators were used to determine SIA values. Two of the calculators; SIA calculator (SIAC) and SIA calculator version 2.1 (SIA2.1) adopted Holladay method of vector analysis, while the other two calculators namely Ophthalmology Calculator Version 6.0 (OC6.0) and VECTrAK™ Vector calculator version 2.4.2 (VVA) employed Alpins method of vector analysis. The mean individual SIA values and analysis reports of each calculator were compared.

**Results:** There were no significant differences in mean SIA between the calculators ( $P > 0.05$ ). The 95% limit of agreement between calculators ranged from -0.006 to 0.005 D. The OC6.0 and VVA provided various indexes which came with suggestions of astigmatic correction, but did not produce aggregate SIA analysis. On the other hand, the SIAC and SIA2.1 provided aggregate SIA analysis which was reported as centroid value. The SIAC also produced subset SIA analysis that allows SIA evaluation according to specific clinical condition.

**Conclusion:** All calculators are comparable in determining SIA value. Each calculator provides different analysis report that can be suited to particular clinical or research requirements. Therefore, surgeon can utilize any of these calculators to determine their actual SIA according to individual preferences and clinical application.

Date: 22 March 2019

Time: 1515 - 1524 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 130** **COMPARISON BETWEEN PREDICTED AND ACTUAL SURGICALLY INDUCED ASTIGMATISM (SIA) ON THE TORIC IOL CALCULATION OUTCOME USING TWO TORIC INTRAOCULAR LENS (IOL) CALCULATORS**  
**Md Muziman Syah Md Mustafa, Nazaryna Marzuki, Khairidzan Mohd Kamal, Noorhazayti Ab. Halim**

*International Islamic University Malaysia*

**Objective:** To compare surgeon's predicted SIA and actual SIA values, and its effect on toric IOL selection using two toric IOL calculators.

**Method:** Predicted SIA values of four surgeons (Surgeon A, B, C and D) from single public institution were retrieved from medical records. The actual SIA values for each surgeon were determined by SIA calculator version 2.1 (SIA2.1) and were compared with predicted SIA using one sample t-test. Using the two SIA values, toric IOL calculation was then determined using ZCalc Calculator (ZCalc) and Barrett Toric Calculator (BTCalc). The results were analysed by the selection of toric IOLs, IOL toricity difference and spherical equivalent difference.

**Results:** Eighty subjects for SIA calculation and 50 patients for toric IOL calculation were recruited. All surgeons predicted their SIA to be 0.50D, except for Surgeon C. However, only 50% of the actual SIA were closed to the predicted SIA values. Surgeon C and D had statistically significant SIA prediction error of 0.31D and -0.44D respectively. Both of the surgeons were found to have 85% difference in toric IOL selection. Underestimation of actual SIA has resulted in higher toricity IOL selection. BTCalc revealed a higher percentage of matched IOL selection compared to ZCalc for all surgeons when the two SIA values were applied.

**Conclusion:** There were discrepancies between predicted SIA and actual SIA values. Nominal SIA prediction error of less than 0.50D has significant effect on toric IOL selection. Therefore, surgeons should consider calculating their actual SIA for toric IOL implantation.

Date: 22 March 2019

Time: 1524 - 1533 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 138 THE CLINICAL PROFILE OF OPTIC NEURITIS WITH INTERETHNIC COMPARISON**

**Dr Goh Ee Pian, Dr Variant, Dr Nurul'ain Binti Masnon, Dr Lakana Kumar A/L Thavaratnam, Dr Shanthi Viswanathan, Associate Professor Dr Tajunisah Begam**

*Hospital Kuala Lumpur Ophthalmology*

**Objective:** To study the differences in demographic and clinical profile of optic neuritis between interethnic groups in Hospital Kuala Lumpur

**Method:** Retrospective Cross-sectional Study of Consecutive Patients with Longitudinal Follow-up between May 2015 to January 2019 in neuro-ophthalmology clinic Hospital Kuala Lumpur.

**Results:**

- Among 112 patients with clinical features of optic neuritis, 44 (39.2%) had typical ON presentation while 68 (60.8%) patients presented with atypical ON.
- Patients with typical ON presentation included 21 patients diagnosed with MS and 23 patients with CIS.
- As for the atypical ON patients, 41 were diagnosed as NMOSD, 15 were infectious, 6 were parainfectious, 3 were CRION and 3 were ADEM.
- Demographically, 81 (72.3%) were male while 31 (27.7%) were female. Majority were Malay 73 (65.2%), followed by Chinese 24 (21.4%) and Indian 15 (13.4%).
- The main cause of ON was NMOSD, (36.6%) and it appeared to be the highest among all the 3 races studied. This is followed by CIS (20.5%), MS (18.8%), infectious (13.4%), parainfectious (5.4%), CRION (2.7%), ADEM (1.8%) and anti-MOG (0.9%).
- NMOSD and MS mostly presented within the atypical ON age group of 15 to 49. CIS appears to have a bimodal distribution between ages 15 and 49 and below the age of 15.

**Conclusion:**

- NMOSD appeared to be a commoner cause of ON compared to MS even among all the 3 races studied.
- It has a tendency of presenting within the typical ON age group.
- Anti-MOG ON appears to be present within our study population.
- A larger population-based study is recommended to verify this.

Date: 22 March 2019

Time: 1533 - 1542 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 142** **COMPARISON OF CENTRAL CORNEAL THICKNESS & INTRAOCULAR PRESSURE BETWEEN PRE-MENOPAUSE AND POST-MENOPAUSE WOMEN WITH NO DRY EYES****Muhammad Firdhaus Zainudin, Dr Premala, Dr Zakwan Ilias, Dr Puspha Raman, Dr Khairulhusnaini Mohd Khalid***Ophthalmology Department, Hospital Tuanku Ampuan Najihah*

**Objective:** Presence of female reproductive hormone receptors in human corneas has been proved to influence the biological function of corneal tissue and intraocular pressure (IOP). The objective of this study is to compare the mean central corneal thickness (CCT) and IOP between pre-menopausal and post-menopausal women.

**Method:** A total of 90 eyes of 50 pre-menopausal and 40 post-menopausal women underwent CCT measurement using optical method by ZEISS IOL Master 700. Participants of both groups met the inclusion and exclusion criteria, had no ocular co-morbidity and no dry eyes. Statistical analysis was performed using analysis of covariance ANCOVA with SPSS version 23.

**Results:** The mean age in pre-menopause women is 36.6 years and post menopause is 53.5years. There's a significant difference in age between the two groups ( $p < 0.001$ ). The mean CCT in pre-menopause women is  $536.8\mu\text{m}$  and post menopause women is  $530.8\mu\text{m}$ . After adjusting for age, there's a significant difference in the mean central corneal thickness between the two groups with pre-menopausal women having thicker central corneal thickness than post-menopausal women ( $p = 0.018$ ). The mean IOP in pre-menopause women is 14.4mmHg and post-menopause women is 15.9mmHg. After age adjustment, there is marginally no significant difference in the mean IOP between pre-menopause and post-menopause women ( $p = 0.051$ ).

**Conclusion:** In post-menopausal women with no dry eyes, the absence of vital female reproductive hormones did affect the CCT but not the IOP. In view of marginal insignificance in the IOP between two groups, a larger sample size might provide a clear difference of IOP between pre-menopause and post-menopause women.

Date: 22 March 2019

Time: 1542 - 1551 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 144 THE ASSOCIATION BETWEEN VISUAL FIELD RELIABILITY INDICES AND COGNITIVE IMPAIRMENT IN GLAUCOMA**

**Nur Hafizah binti Maffar, Yeap Khy Ching, Puspha Raman, Premala Devi Sivagurunathan, Khairul Husnaini Mohd. Khalid**

*Ophthalmology Department, Hospital Tuanku Ampuan Najihah*

**Objective:** Cognitive impairment (CI) associated with aging can impair the ability of individuals to perform the visual field test and compromise the reliability of the results. We aim to evaluate the association between global neurocognitive impairment and visual field reliability indices in glaucoma patients.

**Method:** This prospective, cross-sectional study was conducted at the Ophthalmology Department, Hospital Tuanku Ampuan Najihah, Kuala Pilah, Negeri Sembilan. The study included 62 eyes of 34 glaucoma patients with no diagnoses of dementia. Patients were monitored with Humphrey visual field analyser using 24-2 strategy and CI was assessed using the clock drawing test (CDT). The relationship between the CDT score, fixation loss (FL), false positive (FP), and false negative (FN) percentages were analyzed using the linear regression model, adjusted for age.

**Results:** A high prevalence of cognitive impairment was observed in the glaucoma patient aged more than 65 years old. There was a statistically significant negative association between CDT score and glaucoma severity (spearman's correlation,  $p=0.019$ ). In a multivariate model adjusted for age and glaucoma severity, each one-point decline in CDT score associated with an increase of 5% in FN ( $\beta=-0.05$ , 95% CI, -0.09 to -0.02;  $P=0.04$ ). There was no significant relationship seen between CDT score and FL or FP values.

**Conclusion:** Cognitive decline was associated with reduced visual field reliability during follow-up, especially with increased FN values. These findings suggest that screening and monitoring of cognitive impairment may be important in the assessment of visual field progression in glaucoma patients.

Date: 22 March 2019

Time: 1551 - 1600 hrs

Venue: Zenith 9, Level 3, Zenith Hotel

**Abstract ID 153 DEMOGRAPHIC COMPARISON OF PATIENTS UNDERGOING RETINAL SURGERY BETWEEN 2 REFERRAL CENTRES: INDIRECT COMPARISON BETWEEN DEVELOPED AND DEVELOPING COUNTRY**

**Murshidah Bt Hassan Basri, Dr Mushawiahti Bt Mustapha, Assoc. Prof Dr Jemaima Bt Che Hamzah**

*Universiti Kebangsaan Malaysia Medical Centre*

**Objective:** To compare demographic distribution of patients undergoing retinal surgery between Melbourne, Australia and Kuala Lumpur, Malaysia.

**Method:** Retrospective analysis of surgical data of patients underwent retinal surgery performed by a single surgeon.

**Results:** Based on the data analyzed in HUKM, Kuala Lumpur (KL), about 396 cases underwent retinal surgery by a single surgeon (2014-2017) and about 408 cases by the same surgeon in RVEEH, Melbourne, Australia (2012-2013). In KL, the most common indication for vitrectomy was rhegmatogenous retinal detachment (29%). This was comparable to surgery performed in Melbourne (30%). Diabetic related complications remained the second most common indication for vitrectomy for both KL and Melbourne. However, cases in Kuala Lumpur were mainly of more severe form of disease, tractional retinal detachment (TRD) 18% whereas in Melbourne, TRD were only 4% of their cases. Dropped IOL accounts for 6% in Kuala Lumpur compared to Melbourne 2.2%. Endophthalmitis (both exogenous and endogenous) accounts for 2% of cases in KL compared to 0.98% in Melbourne. Macular diseases were more or less the same between these two hospitals, 16% of cases in Melbourne and 14% of cases in KL.

**Conclusion:** Generally the distributions of cases were almost the same between these 2 centres. However, in terms of spectrum of disease, centre in Kuala Lumpur received more severe form of cases.

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 Hospital Sultanah Bahiyah
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 Chow Kit May, Nor Azita AT, Hamisah I, Lakana KT,  
 Hospital Kuala Lumpur
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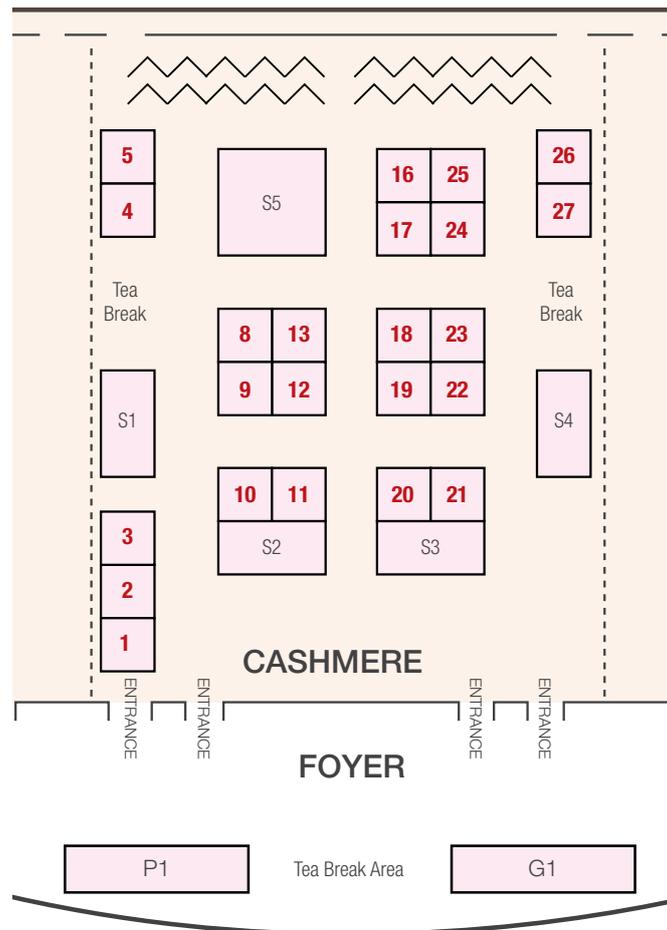
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119. **Assessment of clinical tear lipid floating time utilizing dynamic fluorescein test**  
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#### REFERENCES:

1. EYLEA 40mg/L solution for injection Prescribing information, Malaysia, 19.02.2019.
2. Drug Control Authority, ministry of Health Malaysia website-[http://portal.bpfk.gov.my/images/NewProduct/add-indication/Maklumat\\_tambahan\\_indikasi\\_DCA294.pdf](http://portal.bpfk.gov.my/images/NewProduct/add-indication/Maklumat_tambahan_indikasi_DCA294.pdf). Accessed 2 Feb 2016.

#### ABBREVIATED PRESCRIBING INFORMATION

**Brand name of product:** EYLEA 40mg/ml solution for injection. **Approved name of the active ingredient:** Aflibercept. **Indication:** Treatment of neovascular (wet) age-related macular degeneration (wet AMD), visual impairment due to macular edema secondary to retinal vein occlusion (branch RVO or central RVO), visual impairment due to diabetic macular edema (DME) and visual impairment due to myopic choroidal neovascularization (myopic CNV). **Dosage and method of administration:** The recommended dose for Eylea is 2 mg aflibercept, equivalent to 0.05mL (50 µL); **Neovascular (wet) age-related macular degeneration (wet AMD):** Eylea treatment is initiated with one injection per month for three consecutive doses. The treatment interval is then extended to two months. Based on the physician's judgement of visual and/or anatomic outcomes, the treatment interval may be maintained at two months or further extended, using a treat-and-extend dosing regimen, where injection intervals are increased in 2- or 4- weekly increments to maintain stable visual and/or anatomic outcome. If visual and/or anatomic outcomes deteriorate, the treatment interval should be shortened accordingly to a minimum of two months during the first 12 months of treatment. ; **Visual impairment due to macular edema secondary to retinal vein occlusion (branch RVO or central RVO):** After the initial injection, treatment is given monthly. Monthly treatment continues until maximal visual acuity is achieved and/or there are no signs of disease activity. Three or more consecutive, monthly injections may be needed. Treatment may then be continued with a treat and extend regimen with gradually increased treatment intervals to maintain stable visual and/or anatomic outcomes, however there are insufficient data to conclude on the length of these intervals; **Diabetic macular edema (DME):** Eylea treatment is initiated with one injection per month for five consecutive doses, followed by one injection every two months. After the first 12 months of treatment with Eylea, and based on visual and/or anatomic outcomes, the treatment interval may be extended, such as with a treat- and-extend dosing regimen; **Myopic choroidal neovascularization (myopic CNV):** Single intravitreal injection is recommended. Additional doses may be administered if visual and/or anatomic outcomes indicate that the disease persists. Recurrences are treated like a new manifestation of the disease. The interval between two doses should not be shorter than one month. **Contraindications:** Eylea is contraindicated in patients: with ocular or periocular infection; with Active severe intraocular inflammation; with Known hypersensitivity to aflibercept or to any of the excipients. **Special warnings and special precautions for use: Endophthalmitis:** Proper aseptic injection technique must always be used when administering EYLEA. Patients should be instructed to report any symptoms suggestive of endophthalmitis without delay and should be managed appropriately. **Increase in intraocular pressure:** Increases in intraocular pressure have been seen within 60 minutes of an intravitreal injection, including with EYLEA. Special precaution is needed in patients with poorly controlled glaucoma. **Other:** The safety and efficacy of Eylea therapy administered to both eyes concurrently have not been systematically studied; In the event of a retinal break the dose should be withheld and treatment should not be resumed until the break is adequately repaired; The dose should be withheld based on the clinical judgement of the treating physician, in the event of a performed or planned intraocular surgery; EYLEA should not be used during pregnancy unless the potential benefit outweighs the potential risk to the fetus. EYLEA is not recommended during breast-feeding. **Undesirable effects:** The most frequently observed adverse reactions (in at least 5% of patients treated with EYLEA) were conjunctival hemorrhage, eye pain, cataract, intraocular pressure increased, vitreous detachment and vitreous floaters. **For further prescribing information, please contact:** Bayer Co. (M) Sdn Bhd, B-19-1 & B-19-2, The Ascent Paradigm, No. 1, Jalan SS 7/26A, Kelana Jaya, 47301 Petaling Jaya, Selangor. Subject to medical prescription. **Date of text revision:** 19.01.2019.