

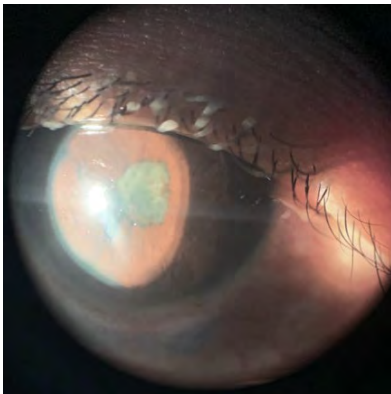
## **Combine Phacoemulsification and Trabeculectomy with Synechiolysis in case of Closed Angle Uveitic Glaucoma**

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A 38 year-old male patient came with blurred vision and pain in the left eye. Eight months prior, the patient had been treated for anterior uveitis and got secondary glaucoma about 1 month ago. Examination on the left eye revealed a visual acuity of hand movement, shallow anterior chamber with almost 360° posterior synechia, cloudy lens, and Intra Ocular Pressure (IOP) of 43 mmHg. After 1 month of Anti-Glaucoma drugs, target IOP was not achieved. Oral prednisolone was given 2 week prior to surgery. Mannitol intravein was given 1 hour preoperative and the IOP decreased to 25 mmHg. Intraoperative challenge included an undilated pupil after synechiolysis, hence an iris retractor was used. Combine Phacoemulsification and trabeculectomy was done and a three-piece IOL was implanted. The following day after the surgery; visual acuity of 0.3 with corneal edema, anterior chamber deepened, IOP of 20 mmHg, and well-functioning diffuse bleb

**Figure**





## APGC-2022 ABSTRACT BOOK

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## Introduction

**The 6th Asia-Pacific Glaucoma Congress** in conjunction with the **12th Malaysian Society of Ophthalmology Annual Scientific Meeting (MSO-ASM)** and the **36th Malaysia-Singapore Joint Ophthalmic Congress (MSJOC)** will be held in a hybrid capacity for the first time in Kuala Lumpur, Malaysia, from **4 – 7 August 2022**.

The Asia-Pacific Glaucoma Congress brings together clinicians, scientists, students and other health practitioners from the Ophthalmology field with a focus on Glaucoma. The program provides a platform for delegates to collaborate, share experiences, knowledge and research results whilst also learning about world's best practice and the recent innovations helping us overcome challenges in clinical medicine and surgery.



**Prof Ki Ho Park**

President, Asia-Pacific Glaucoma Society



**Dr Seng Kheong Fang**

President-elect, Asia-Pacific Glaucoma Society  
APGC 2022 Congress Chair



**Prof Tanuj Dada**

APGC 2022 Congress Scientific Program  
Committee Chair



**Prof Liza Sharmini Ahmad Tajudin**

APGC 2022 Scientific Program Committee Co-  
chair

## Program overview

The Asia-Pacific Glaucoma Congress invited submissions for the official program over a broad range of themes including but not limited to basic research and pathogenesis, epidemiology and economic evaluation, glaucoma imaging and diagnosis, glaucoma surgery, laser treatment and medical treatment.

In 2022 abstracts were accepted on behalf of both the Asia-Pacific Glaucoma Congress and the Malaysia-Singapore Joint Ophthalmic Congress (MSJOC), resulting in over 360 abstract submissions being received.

All submissions were peer reviewed to ensure a fair and equitable process and ultimately 28 oral presentations, 3 on-demand oral presentations, 31 film festival presentations and 280 poster presentations were accepted in the official program.

We hope that you find value and ongoing education benefit from this publication of accepted oral, on-demand oral, film festival and poster presentation submissions.

## Welcome by the President

Dear Colleagues and Friends,

We have been waiting for four years to have our biennial congress of the Asia Pacific Glaucoma Society (APGS), due to the unexpected outbreak of COVID-19 following the previous (2018) congress in Busan. Even though COVID-19 is still a problem, it is our great pleasure to be able to announce the 6th APGC (2022) in a hybrid on-line/off-line format in conjunction with the 12th Malaysian Society of Ophthalmology Annual Scientific Meeting (MSO-ASM) and the 36th Malaysia-Singapore Joint Ophthalmic Congress (MSJOC).



Glaucoma is one of the leading causes of blindness worldwide, and Asia accounts for 60% of the world's glaucoma cases. So, the role of the APGS is critical to prevention of blindness and maintenance of the quality of life of glaucoma patients. As it was impossible to have a physical congress during the COVID-19 pandemic period, the APGS organized a series of webinars and masterclasses to fulfill the educational needs of the membership. I believe that these online educational platforms have provided great opportunities to those with limited opportunities to travel or join physical meetings.

COVID-19 has changed not only our daily lifestyle but also the pattern of clinical eye care practice. Protecting both patients and healthcare providers became more important. Glaucoma specialists are at a higher risk of air-borne viral infective diseases given our need to measure intraocular pressure and look into the optic disc and anterior segment of the eye. In the context of the pandemic, telemedicine in glaucoma will surely become more common and popular, enabling optic nerve imaging, visual field testing, and intraocular pressure measurement at home or otherwise remotely. It may also make possible real-time communication between

patients and doctors. Artificial intelligence, moreover, may assist doctors' decision-making and help to keep patients better informed before consulting doctors. In APGC 2022's scientific program, you will be able to find topics related to telemedicine and the application of deep learning to glaucoma care. Even after the cessation of the COVID-19 pandemic, there is a high possibility that a new viral disease entity may affect us globally.

However, the importance of in-person meeting cannot be overemphasized. In the shared space of a physical congress, face-to-face and in-depth discussion is possible without the time restrictions of online meetings. We can catch our patients', friends' or colleagues' thoughts and emotions more clearly in-person than in communicating through a monitor and speaker. During the APGC welcome reception or group meeting, we may meet many people more efficiently and get to know each other more closely in addition to gaining new knowledge and information. We may have dinner and coffee or tea together with attendees, just as we do in our daily life. I hope that through this 6th APGC in Kuala Lumpur, we may go back to the time and place we enjoyed in previous congresses.

I thank the organizing committee members and scientific program committee members for their endeavors to make this hybrid APGC2022 congress a success. I also would like to express my gratitude to the executive members of the Malaysian Society of Ophthalmology for their time and effort to make this joint congress more fruitful.

I hope all of you will enjoy the 6th APGC and meet old and new friends.

**Ki Ho Park**

President of the APGS

## Asia Pacific Glaucoma Congress- Showcasing cutting edge glaucoma research

The Asia Pacific Glaucoma Society (APGS) is one of the premier societies for clinician scientists with special interest in the field of glaucoma. This year the society is holding the 6th Asia-Pacific Glaucoma Congress (APGC) with a focus on promoting scientific research and collaboration. The

scientific programme includes lectures by top opinion leaders from across the globe with special symposia of the World Glaucoma Association, American Glaucoma Society, European Glaucoma Society and International Society of Glaucoma Surgery.



The scientific themes of the congress include both glaucoma basic and clinical sciences and broadly cover the following topics : Basic and laboratory science including glaucoma genetics; Epidemiology, quality of life and health economics; Glaucoma imaging and use of artificial intelligence ; medical and laser therapies for glaucoma and surgical modalities including conventional filtering surgery as well as recent advances in minimally invasive glaucoma surgery. There is also a video assisted skill transfer on glaucoma surgery and wet lab on new glaucoma surgical techniques.

The congress invites young researchers from across the globe to submit their original research in the form of structured abstracts. All eligible abstracts then undergo blinded peer review and scoring by at least two APGS committee members and then the scores are averaged. The scoring is based on the originality & clinical significance of the work, the level of evidence , use of appropriate and ethically sound methodology and conclusions based on data presented with statistical validity. We have received 300 scientific abstracts submissions out of

which top scoring 20 abstracts have been selected for oral presentations and 217 as poster presentations. APGS scientific committee will judge the oral presentations and select the best presentations for APGS awards.

In addition, we have invited abstracts for surgical videos to promote skill transfer and to encourage innovations in glaucoma surgery. These are again peer reviewed and selected for viewing during the congress film festival.

This special issue of the Asian Journal of Ophthalmology includes the scientific abstracts included in the congress and promises to be an exciting read, generating new ideas and innovations for alleviating the glaucoma disease burden worldwide. I congratulate the Editors for this initiative and Kugler publications for bringing out this valuable edition in print.

**Tanuj Dada MD**

APGC 2022 Scientific Programme Committee Chair