



## **Bryan Ang Chin Hou**

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### Research Interests:

- Glaucoma Surgery
- Minimally Invasive Glaucoma Surgery
- Glaucoma Diagnostics
- Intraocular Pressure Monitoring

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## **Biography**

Adjunct Assistant Professor Bryan Ang is Deputy Head of the Glaucoma Service at the National Healthcare Group Eye Institute, Tan Tock Seng Hospital. Dr Ang graduated from the National University of Singapore, was placed on the Dean's List for multiple academic years, obtained a Distinction in Surgery in the Final M.B.B.S, and was recognized as 2<sup>nd</sup> Best Candidate in Surgery in his undergraduate cohort. He was further awarded the Gold Medal as the Best Candidate in the postgraduate Masters in Medicine examinations. Dr Ang specializes in Cataract and Glaucoma Surgery. His innovative surgical techniques, particularly in Minimally Invasive Glaucoma Surgery (MIGS), are internationally recognized, having won multiple awards including 1<sup>st</sup> and 2<sup>nd</sup> Prizes at the World Glaucoma Congress, and the Best Video award at the American Academy of Ophthalmology Annual Meeting. Dr Ang is regularly invited as speaker and instructor on glaucoma surgery at numerous renowned international meetings. Dr Ang currently holds more than \$350k SGD in competitive research grant funding as principal investigator, with various innovation grants focusing on MIGS, glaucoma surgery and diagnostics. To date, he has published more than 65 scientific papers and sits on the editorial boards of several renowned ophthalmology journals.

## Selected Publications

- Pantcheva MB, Gangaputra S, Sieck E, Accorinti M, Neumann R, **Ang BCH**, Barton K, Chu DS, Grigg J, Kempen JH, Liebmann JM, Muñoz-Negrete FJ, Nguyen QD, Palestine AG, Thorne J, van Meerwijk C, Yang P, de Smet MD. Uveitic Glaucoma Interest Group Recommendations for Uveitis-Related Ocular Hypertension and Glaucoma Management. *Ocul Immunol Inflamm*. 2025 Nov;33(9):2153-2167. doi: 10.1080/09273948.2025.2542286. Epub 2025 Sep 19. PMID: 40971800.
- **Ang BCH**, Betzler BK, Lim SY. Schlemm's Bidirectional Fluid Wave and Luminal Blood Reflux as Novel Intraoperative Signs Confirming Optimal Placement of the iStent. *J Glaucoma*. 2025 Jun 1;34(6):e28-e33. doi: 10.1097/IJG.0000000000002539. Epub 2025 Jan 23. PMID: 39841095.
- Yang WYL, Wong HJ, Fu CE, Rojas-Carabali W, Agrawal R, **Ang BCH**. Artificial intelligence in the prediction of glaucoma development and progression: A systematic review. *Surv Ophthalmol*. 2026 Jan-Feb;71(1):235-247. doi: 10.1016/j.survophthal.2025.06.006. Epub 2025 Jun 18. PMID: 40541841.
- **Ang BCH**, Chen EJ. Novel surgical technique to manage iStent inject over-implantation. *Eur J Ophthalmol*. 2023 Nov;33(6):2309-2312. doi: 10.1177/11206721231190417. Epub 2023 Aug 7. PMID: 37549939.
- **Ang BCH**, Lim SY, Betzler BK, Wong HJ, Stewart MW, Dorairaj S. Recent Advancements in Glaucoma Surgery-A Review. *Bioengineering (Basel)*. 2023 Sep 19;10(9):1096. doi: 10.3390/bioengineering10091096. PMID: 37760198; PMCID: PMC10525614.
- **Ang BCH**, Betzler BK, Lim SY. Intraoperative Optical Coherence Tomography for Ab Interno Trabecular Bypass Glaucoma Surgery. *J Glaucoma*. 2023 Nov 1;32(11):e151-e155. doi: 10.1097/IJG.0000000000002232. Epub 2023 May 10. PMID: 37171995.
- **Ang BCH**, Chiew W, Yip VCH, Chua CH, Han WS, Tecson IOC, Ogle JJ, Lim BA, Hee OK, Tay ELY, Yong VKY, Wong HT, Yip LWL. Prospective 12-month outcomes of combined iStent inject implantation and phacoemulsification in Asian eyes with normal tension glaucoma. *Eye Vis (Lond)*. 2022 Jul 5;9(1):27. doi: 10.1186/s40662-022-00294-2. PMID: 35794666; PMCID: PMC9258099.
- **Ang BCH**, Seen S, Kumaran A, De Leon JMS, Seah SKL, Foster PJ, Gazzard G, Htoon HM, Khaw PT, Aung T, Husain R. Visual field progression 8 years after trabeculectomy in Asian eyes: results from The Singapore 5-Fluorouracil Study. *Br J Ophthalmol*. 2020 Dec;104(12):1690-1696. doi: 10.1136/bjophthalmol-2019-314121. Epub 2020 Mar 5. PMID: 32139502.

- **BCH Ang**, Foo RC, Lim EW, Tan MM, Nah GK, Thean LS, Tan CW, Zhao PS. Risk factors for early-onset corneal haze after photorefractive keratectomy in an Asian population: Outcomes from the Singapore Armed Forces Corneal Refractive Surgery Programme 2006 to 2013. J Cataract Refract Surg. 2016 May;42(5):710-6. doi: 10.1016/j.jcrs.2016.01.047. PMID: 27255247.
- **BCH Ang**, Nongpiur ME, Aung T, Mizoguchi T, Ozaki M. Changes in Japanese eyes after laser peripheral iridotomy: an anterior segment optical coherence tomography study. Clin Exp Ophthalmol. 2016 Apr;44(3):159-65. doi: 10.1111/ceo.12673. Epub 2016 Feb 5. PMID: 26485668.

### Notable Research and Innovation Awards & Grants from Past 5 Years

Name of Awards & Grants	Year Obtained
NHG Centre for Medical Technologies & Innovations and National Health Innovation Centre Singapore Joint MedTech	2024
Ng Teng Fong Healthcare Innovation Programme Grant	2024
Ng Teng Fong Healthcare Innovation Programme Grant	2025
Centre for Medical Technologies & Innovations Grant, 2025	2025