Glenn C. Yiu, M.D., Ph.D.

Philosophy of Care

I strongly believe in patient education, and work with patients together as a team to develop their treatment plans. I encourage my patients to ask questions, and take the time to carefully explain their condition to them.

By helping each patient understand the nature of their eye disease, and also providing up-to-date information about clinical trials and retina research, I strive to help them make informed decisions about their eye care.

I strive to provide compassionate care to all my patients, and enjoy developing a long-term relationship of mutual trust and respect with each individual that I see.

Clinical Interests

Dr. Yiu is a board-certified vitreoretinal specialist and surgeon at the UC Davis Eye Center. He received his medical training at Harvard Medical School, where his graduate research explored mechanisms of nervous system regeneration and earned him a dual MD-PhD degree. After residency at Harvard, he underwent a vitreoretinal surgery fellowship at Duke University, where he also became involved in ocular imaging research to study age-related macular degeneration (AMD) and diabetic retinopathy.

As a vitreoretinal specialist and surgeon at UC Davis, he specializes in both the medical and surgical management of various retinal diseases, including macular degeneration, diabetic retinopathy, retinal vascular conditions, retinal detachments, and macular diseases such as epiretinal membranes and macular holes. He is also a federally-funded clinician-scientist with expertise in AMD, diabetic retinopathy, gene therapy, ocular imaging, and telemedicine.

Research/Academic Interests

Dr. Yiu is involved in translational research to study the pathogenesis and develop therapies for age-related macular degeneration (AMD) and other retinal diseases, with focuses on gene therapy, ocular imaging technologies, and animal models of retinal disease. He reported the first use of CRISPR-based genome editing as a treatment strategy for wet AMD, discovered the use of microneedles for suprachoroidal viral injections for gene delivery, and pioneered important studies on drusen evolution in rhesus monkeys. He also employs ocular imaging technologies to develop an optically-triggered animal model of geographic atrophy, and study vascular roles in retinal diseases. He currently serves as Director of the UC Davis Reading Center and Director of Tele-ophthalmology, where he has pioneered a tele-retinal screening program to expand eye screening among diabetic patients in Northern California.

His translational research program spans animal models from mice to non-human primates to human patients, and he is actively involved in major national clinical trials for new treatments for AMD and other retinal diseases. He has published numerous peer-reviewed scientific papers and book chapters, and has given lectures nationally and internationally. He is the editor of the textbook "Vitreoretinal Disorders", serves as editor and reviewer for several academic journals, and

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is a course lecturer at the American Academy of Ophthalmology.
Dr. Yiu has received numerous awards including the Ronald G. Michels Fellowship, the Heed Fellowship, the Retina Society Fellowship Research Award, and the Macula Society Evangelos S. Gragoudas Award. He is also supported by the National Eye Institute, the BrightFocus Foundation, the E Matilda Ziegler Foundation, the ARVO Foundation, Lions Club International Foundation, the Alcon Research Institute, the CITRIS/Banatao Institute, and the Macula Society. In 2016, he was named as one of 21 "Emerging Vision Scientists" by the National Alliance for Eye and Vision Research for his cutting-edge research.

Title
Director, Tele-Ophthalmology
Professor, Department of Ophthalmology

Specialty
Vitreoretinal Service

Department
Ophthalmology & Vision Science

Division
Vitreo-Retinal Disease and Oncology

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Languages
Cantonese

Education
M.D., Harvard Medical School, Boston MA 2008
Ph.D., Neuroscience, Harvard Medical School, Boston MA 2006
B.A., Columbia University, New York NY 2000

Internships
Internal Medicine, Brigham & Women's Hospital, Boston MA 2008-2009

Residency
Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston MA 2009-2012

Fellowships
Vitreoretinal Surgery, Duke University Medical Center, Durham NC 2012-2014

Board Certifications
American Board of Ophthalmology

Professional Memberships
American Academy of Ophthalmology

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American Society of Retina Specialists
Association for Research in Vision & Ophthalmology
International Society for Eye Research
Macula Society
Retina Society

Honors and Awards

American Academy of Ophthalmology Achievement Award, 2019
International Society for Eye Research Travel Fellowship, 2018
American Society of Retina Specialists Honor Award, 2018
Macula Society International Travel Grant, 2017
NAEVR Emerging Vision Scientist, 2016
Alcon Research Institute Young Investigator Award, 2016
Evangelos S. Gragoudas Award, Macula Society, 2014
Ronald G. Michels Foundation Fellowship Award, 2013
Retina Society 17th Fellowship Research Award, 2013
Heed Ophthalmic Foundation Fellowship Award, 2012
Cum Laude, Harvard Medical School, 2008
Summa Cum Laude, Columbia University, 2000

Select Recent Publications

To view a complete list of Dr. Yiu's publications, please click here.

Lin KH, Tran T, Kim S, Park S, Chen J, Stout JT, Chen R, Rogers J, Yiu G, Thomasy S, Moshiri A. Age-related changes in the rhesus macaque eye. Exp Eye Res. 2021 Nov;212:108754. doi:10.1016/j.exer.2021.108754. Epub 2021 Sep 11. PMID:34506802.

Lee SC, Lieng MK, Alber S, Mehta N, Emami-Naeini P, Yiu G. Trends in Remote Retinal Imaging Utilization and Payments in the United States. Ophthalmology. 2021 Oct 12;. doi:10.1016/j.ophtha.2021.10.010. [Epub ahead of print] PMID:34653417.

Lent-Schochet D, Lo T, Luu KY, Tran S, Wilson MD, Moshiri A, Park SS, Yiu G. NATURAL HISTORY AND PREDICTORS OF VISION LOSS IN EYES WITH DIABETIC MACULAR EDEMA AND GOOD INITIAL VISUAL ACUITY. Retina. 2021 Oct 1;41(10):2132-2139. doi:10.1097/IAE.0000000000003167. PMID:33734192.

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Chung SH, Frick SL, Yiu G. Targeting vascular endothelial growth factor using retinal gene therapy. Ann Transl Med. 2021 Aug;9(15):1277. doi:10.21037/atm-20-4417. Review. PMID: 34532414.

Yellapragada B, Hornauer S, Snyder K, Yu S, Yiu G. Self-Supervised Feature Learning and Phenotyping for Assessing Age-Related Macular Degeneration Using Retinal Fundus Images. Ophthalmol Retina. 2021 Jul 2;. doi:10.1016/j.oret.2021.06.010. [Epub ahead of print] PMID: 34217854.

Rusakevich AM, Protopsaltis NJ, Rao RC, Chao DL, Yiu G. Research Funding, Income, and Career Satisfaction Among Clinician-Scientists in Ophthalmology in the United States. Am J Ophthalmol. 2021 Jul;227:254-264. doi:10.1016/j.ajo.2021.03.034. Epub 2021 Apr 6. PMID:33836182.

Mehta N, Robbins DA, Yiu G. Ocular Inflammation and Treatment Emergent Adverse Events in Retinal Gene Therapy. Int Ophthalmol Clin. 2021 Jul 1;61(3):151-177. doi:10.1097/IIO.0000000000000366. PMID:34196322.

Lin KH, Tran T, Kim S, Park S, Stout JT, Chen R, Rogers J, Yiu G, Thomasy S, Moshiri A. Advanced Retinal Imaging and Ocular Parameters of the Rhesus Macaque Eye. Transl Vis Sci Technol. 2021 May 3;10(6):7. doi:10.1167/tvst.10.6.7. PMID:34111251.

Zhang T, Kho AM, Yiu G, Srinivasan VJ. Visible Light Optical Coherence Tomography (OCT) Quantifies Subcellular Contributions to Outer Retinal Band 4. Transl Vis Sci Technol. 2021 Mar 1; 10(3):30. doi:10.1167/tvst.10.3.30. PMID:34003965.

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