



R. V. Paul Chan, MD, MSc, FACS

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The John H. Panton, MD Professor of Ophthalmology
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Co-Director, Vitreoretinal Fellowship
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R.V. Paul Chan, MD is Professor and Head of Ophthalmology and Visual Sciences at the Illinois Eye and Ear Infirmary, University of Illinois at Chicago (UIC). He is the Co-Director of the Vitreoretinal Fellowship and serves as Director of the Pediatric Retina and Retinopathy of Prematurity (ROP) Service. His clinical practice focuses on vitreoretinal surgery, with an expertise in pediatric retinal disease. Dr. Chan received his BA from the University of Pennsylvania and MD from the Temple University School of Medicine. After completing Ophthalmology residency at New York-Presbyterian Hospital, Weill Cornell Medical College, he went on to a Fellowship in Vitreoretinal Surgery at the Massachusetts Eye and Ear Infirmary at Harvard Medical School. Dr. Chan spent nine years on faculty at Weill Cornell Medical College, as Director of the Retina Service and Vitreoretinal Fellowship, before moving to UIC in 2015.

Dr. Chan is committed to global health initiatives with a focus on both surgical training and education for the diagnosis and management of adult and pediatric retinal disease. Dr. Chan's primary research interests focus on utilizing new technology and imaging techniques to better evaluate and manage pediatric retinal disease. He receives grant funding from the NIH as well as a number of charitable foundations. He is a core team member of the Imaging and Informatics for ROP (i-ROP) consortium and leads the Global Education Network for ROP (GEN-ROP), which is an international collaboration of investigators with expertise in neonatology, ophthalmology, biomedical informatics, international health, and medical education. Together, they are implementing tele-education programs aimed at addressing the growing global burden of ROP and have established clinical, teaching, and research collaborations in Asia, Latin America, and Africa. Dr. Chan also serves as a consultant for both Orbis International and Helen Keller International (HKI), and sits on the Board of Trustees for HKI.

Dr. Chan is Executive Editor of the American Academy of Ophthalmology's (AAO) Global Ophthalmology (GO) Guide, is an assistant editor for the journal, *Retina*, and is on the editorial board for the *Journal of Pediatric Ophthalmology and Strabismus*, the *Asia-Pacific Journal of Ophthalmology*, the *Journal of Vitreoretinal Diseases*, *Retina Today*, *New Retina MD*, and *Ocular Surgery News*. He is an active member in a number of major ophthalmic societies, including the American Eye Study Club, the American Ophthalmological Society, the Club Jules Gonin, the Retina Society, the Macula Society, the Vit-Bukle Society, the Association of Pediatric Retina Surgeons, and the American Society of Retina Specialists. Dr. Chan is also an honorary member of the Thai Retina Society. He serves on the Global ONE Advisory Board and the Ethics Committee for the AAO. He is also on the Executive Committee for the Pan-American Association of Ophthalmology (PAAO). Dr. Chan has won numerous awards including a Heed Ophthalmic Foundation Fellowship, the Ronald G. Michels Foundation Fellowship, the Paul Kayser International

Fellowship, the Excellence in Ophthalmology Vision Award (XOVA), the American Society of Retina Specialists Senior Honor Award, the Achievement Award and two Secretariat Awards by the AAO.

SPECIALTIES & SERVICES

Ophthalmology
Adult and pediatric retinal disease
Retinopathy of prematurity
Retinal vascular diseases
Eye trauma and infections
Diabetic Retinopathy
Age-related macular degeneration

EDUCATION

Medical School—Temple University School of Medicine
Residency—New York-Presbyterian Hospital, Weill Cornell Medical College
Fellowship in Vitreoretinal Surgery—Massachusetts Eye and Ear Infirmary, Harvard Medical School

SELECTED PUBLICATIONS

Bakri SJ, Alniemi ST, Chan RV. Experiences of vitreoretinal surgery fellows in the United States. *Retina*. 2013 Feb;33(2):392-6. doi: 10.1097/IAE.0b013e31826b6700. PubMed PMID: 23222495.

Hewing NJ, Weskamp G, Vermaat J, Farage E, Glomski K, Swendeman S, Chan RV, Chiang MF, Khokha R, Anand-Apte B, Blobel CP. Intravitreal injection of TIMP3 or the EGFR inhibitor erlotinib offers protection from oxygen-induced retinopathy in mice. *Invest Ophthalmol Vis Sci*. 2013 Jan 30;54(1):864-70. doi: 10.1167/iovs.12-10954. PubMed PMID: 23299479; PubMed Central PMCID: PMC3562132.

Hewing NJ, Kaufman DR, Chan RV, Chiang MF. Plus disease in retinopathy of prematurity: qualitative analysis of diagnostic process by experts. *JAMA Ophthalmol*. 2013 Aug;131(8):1026-32. doi: 10.1001/jamaophthalmol.2013.135. PubMed PMID: 23702696; PubMed Central PMCID: PMC3921179.

Kang KB, Wessel MM, Tong J, D'Amico DJ, Chan RV. Ultra-widefield imaging for the management of pediatric retinal diseases. *J Pediatr Ophthalmol Strabismus*. 2013 Sep-Oct;50(5):282-8. doi: 10.3928/01913913-20130528-04. Epub 2013 Jun 4. PubMed PMID: 23739460.

Kang KB, Orlin A, Lee TC, Chiang MF, Chan RV. The use of digital imaging in the identification of skip areas after laser treatment for retinopathy of prematurity and its implications for education and patient care. *Retina*. 2013 Nov-Dec;33(10):2162-9. doi: 10.1097/IAE.0b013e31828e6969. PubMed PMID: 23615346.

Coleman DJ, Silverman RH, Rondeau MJ, Lloyd HO, Khanifar AA, Chan RV. Age-related macular degeneration: choroidal ischaemia? *Br J Ophthalmol*. 2013 Aug;97(8):1020-3. doi:

10.1136/bjophthalmol-2013-303143. Epub 2013 Jun 5. PubMed PMID: 23740965; PubMed Central PMCID: PMC3717761.

Guaiquil VH, Hewing NJ, Chiang MF, Rosenblatt MI, Chan RV, Blobel CP. A murine model for retinopathy of prematurity identifies endothelial cell proliferation as a potential mechanism for plus disease. *Invest Ophthalmol Vis Sci*. 2013 Aug 7;54(8):5294-302. doi: 10.1167/iovs.12-11492. PubMed PMID: 23833070; PubMed Central PMCID: PMC3738219

Orlin A, Hewing NJ, Nissen M, Lee S, Kiss S, D'Amico DJ, Chan RV. Pars plana vitrectomy compared with pars plana vitrectomy combined with scleral buckle in the primary management of noncomplex rhegmatogenous retinal detachment. *Retina*. 2014 Jun;34(6):1069-75. doi: 10.1097/IAE.000000000000050. PubMed PMID: 24853687.

Port AD, Chan RV, Ostmo S, Choi D, Chiang MF. Risk factors for retinopathy of prematurity: insights from outlier infants. *Graefes Arch Clin Exp Ophthalmol*. 2014 Oct;252(10):1669-77. doi: 10.1007/s00417-014-2716-1. Epub 2014 Jul 23. PubMed PMID: 25053346; PubMed Central PMCID: PMC4183710.

Ryan MC, Ostmo S, Jonas K, Berrocal A, Drenser K, Horowitz J, Lee TC, Simmons C, Martinez-Castellanos MA, Chan RV, Chiang MF. Development and Evaluation of Reference Standards for Image-based Telemedicine Diagnosis and Clinical Research Studies in Ophthalmology. *AMIA Annu Symp Proc*. 2014 Nov 14;2014:1902-10. eCollection 2014. PubMed PMID: 25954463; PubMed Central PMCID: PMC4419970.

Woo R, Chan RV, Vinekar A, Chiang MF. Aggressive posterior retinopathy of prematurity: a pilot study of quantitative analysis of vascular features. *Graefes Arch Clin Exp Ophthalmol*. 2015 Feb;253(2):181-7. doi: 10.1007/s00417-014-2857-2. Epub 2014 Nov 21. PubMed PMID: 25413261.

Patel SN, Klufas MA, Ryan MC, Jonas KE, Ostmo S, Martinez-Castellanos MA, Berrocal AM, Chiang MF, Chan RV. Color fundus photography versus fluorescein angiography in identification of the macular center and zone in retinopathy of prematurity. *Am J Ophthalmol*. 2015 May;159(5):950-7.e2. doi: 10.1016/j.ajo.2015.01.027. Epub 2015 Jan 28. PubMed PMID: 25637180.

Coombs PG, Feldman BH, Lauer AK, Paul Chan RV, Sun G. Global Health Training in Ophthalmology Residency Programs. *J Surg Educ*. 2015 Jul-Aug;72(4):e52-9. doi: 10.1016/j.jsurg.2015.04.007. PubMed PMID: 26073479.

Chiang MF, Chan RV, Vinekar A, Woo R. Science and art in retinopathy of prematurity diagnosis. *Graefes Arch Clin Exp Ophthalmol*. 2015 Jul 22. [Epub ahead of print] PubMed PMID: 26198712.

Klufas MA, Patel SN, Ryan MC, Patel Gupta M, Jonas KE, Ostmo S, Martinez-Castellanos MA, Berrocal AM, Chiang MF, Chan RV. Influence of Fluorescein Angiography on the Diagnosis and Management of Retinopathy of Prematurity. *Ophthalmology*. 2015 Aug;122(8):1601-8. doi: 10.1016/j.ophtha.2015.04.023. Epub 2015 May 28. PubMed PMID: 26028345.

Chan RVP, Patel SN, Ryan MC, Jonas KE, Ostmo S, Port AD, Sun GI, Lauer AK, Chiang MF, The Global Education Network for Retinopathy of Prematurity (GEN-ROP): Development, Implementation, and Evaluation of a Novel Tele-Education System, Trans Am Ophthalmol Soc., In Press

Campbell JP, Swan R, Jonas KE, Ostmo S, Ventura CV, Martinez-Castellanos MA, Anzures R, Chiang MF, Chan RVP, Implementation and evaluation of a tele-education system for the diagnosis of ophthalmic disease, AMIA Annu Symp Proc., In Press