



Carolyn K. Pan, MD

Clinical Professor, Ophthalmology

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Pan is a board-certified ophthalmologist and fellowship-trained vitreoretinal surgeon. She focuses on retinal vascular diseases, macular degeneration, and surgical repair of retinal detachments, macular pathology, and complications from cataract surgery. She has co-authored peer-reviewed articles on topics ranging from optical coherence tomography imaging to embryonic stem cells for macular degeneration.

In addition to her clinical practice, she is dedicated to the education and training of medical students, residents, and fellows. As recognition of her efforts, she received the Faculty Teaching Award in 2016 from the Byers Eye Institute at Stanford University and was the recipient of the national Women in Ophthalmology Educator Award in 2024. Within the department, she was the Associate Residency Program Director from 2020 to 2023, and currently serves as the Residency Program Director. Her educational efforts also extend beyond the department - since 2016, she has served on the annual meeting planning committee for the American Academy of Ophthalmology and is currently Associate Secretary of the Annual Meeting and Chair of the Special Projects Committee.

Dr. Pan's clinical practice is mainly based at Santa Clara Valley Medical Center, Stanford's affiliate county hospital, where she is chief of the retina service.

ACADEMIC APPOINTMENTS

- Clinical Professor, Ophthalmology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Residency Program Director, Stanford University, Department of Ophthalmology, (2023- present)
- Associate Residency Program Director, Stanford University, Department of Ophthalmology, (2020-2023)
- Director of Outreach Services, Stanford University, Department of Ophthalmology, Retina Division, (2017- present)
- Director, Retinal Imaging Conference, Stanford University, Department of Ophthalmology, (2013-2023)
- Chief, Vitreoretinal Diseases and Surgery, Santa Clara Valley Medical Center, (2013- present)

HONORS AND AWARDS

- WIO Educators Award, Women in Ophthalmology (2024)
- Achievement Award, American Academy of Ophthalmology (2020)
- AAMC Early Career Women Faculty Leadership Development Seminar, AAMC (2019)
- Faculty Teaching Award, Byers Eye Institute at Stanford University (2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Macula Society (2025 - present)
- EyeNet Editorial Board, Member, American Academy of Ophthalmology (2025 - present)
- Communications Secretariat, Member, American Academy of Ophthalmology (2025 - present)
- Website and Communications Committee, Member, Retina Society (2024 - present)
- Board of Directors, Member-At-Large, Women in Retina, American Society of Retina Specialists (2022 - 2024)
- Member, Retina Society (2022 - present)
- Special Projects Committee, Chair, American Academy of Ophthalmology (2021 - present)
- President, Peninsula Eye Society (2018 - 2020)
- Member, American Society of Retina Specialists (2018 - present)
- Member, Women in Ophthalmology (2018 - present)
- Special Projects Committee, Retina/Uveitis representative, American Academy of Ophthalmology (2015 - 2021)
- Diplomate, American Board of Ophthalmology (2012 - present)
- Member, Alpha Omega Alpha Honor Medical Society (2006 - present)

PROFESSIONAL EDUCATION

- Fellowship, University of California Los Angeles, David Geffen School of Medicine, Jules Stein Eye Institute , Vitreoretinal Diseases and Surgery (2013)
- Residency, University of Colorado, Department of Ophthalmology , Ophthalmology (2011)
- Internship, The Jewish Hospital of Cincinnati , Internal Medicine (2008)
- M.D., Wayne State University School of Medicine (2007)
- B.S., Massachusetts Institute of Technology , Chemical Engineering (2003)

Publications

PUBLICATIONS

- **A Google Trends Assisted Analysis of the Readability, Accountability, and Accessibility of Online Patient Education Materials for the Treatment of Age-Related Macular Degeneration after FDA Approval of Pegcetacoplan (SYFOVRE)**
Cohen, S., Brant, A., Rayess, N., Rahimy, E., Pan, C., Fisher, C., Pershing, S., Do, D. V.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Google Trends-Assisted Analysis of the Readability, Accountability, and Accessibility of Online Patient Education Materials for the Treatment of AMD After US FDA Approval of Pegcetacoplan.** *Journal of vitreoretinal diseases*
Cohen, S. A., Brant, A., Rayess, N., Rahimy, E., Pan, C., Fisher, A. C., Pershing, S., Do, D.
2024; 8 (4): 421-427
- **Dr. Google vs. Dr. ChatGPT: Exploring the Use of Artificial Intelligence in Ophthalmology by Comparing the Accuracy, Safety, and Readability of Responses to Frequently Asked Patient Questions Regarding Cataracts and Cataract Surgery.** *Seminars in ophthalmology*
Cohen, S. A., Brant, A., Fisher, A. C., Pershing, S., Do, D., Pan, C.
2024: 1-8

- **Association of Cutaneous Keloids, Hypertrophic Scarring, and Fibrosis with Risk of Post-operative Proliferative Vitreoretinopathy.** *Ophthalmology*
Mammo, D. A., Wai, K., Rahimy, E., Pan, C. K., Srivastava, S. K., Mruthyunjaya, P.
2024
- **Trends of Ophthalmic Surgery Cancellations at a County Hospital Before and During COVID-19: A 10-Year Retrospective Study.** *Seminars in ophthalmology*
Yu, G., Michalak, S., Mishra, K., Yu, M., Pan, C.
2023: 1-7
- **Trends in Leadership and Award Recognition Among Women in the American Society of Retina Specialists** *JOURNAL OF VITREORETINAL DISEASES*
Reeves, M. R., Pasricha, M., Ludwig, C. A., Chandramohan, A., Azad, A. D., Li, A. S., Rosenblatt, T. R., Sears, C., Kessler, A. L., Do, D., Pan, C. K.
2022; 6 (5): 374-380
- **Representation of Women in Ophthalmology Subspecialty Societies over 20** *OPHTHALMOLOGY*
Azad, A. D., Chandramohan, A., Li, A. S., Rosenblatt, T. R., Reeves, M. R., Veerappan-Pasricha, M., Ludwig, C. A., Nguyen, A., Wings, K. M., Wang, S. Y., Pan, C. K., Moss, H. E., Do, et al
2022; 129 (5): 587-590
- **Factors Affecting Ophthalmology Trainees to Pursue Vitreoretinal Surgery Fellowship.** *Journal of academic ophthalmology (2017)*
O'Fee, J. R., Rayess, N., Pan, C. K., Toy, B. C.
2022; 14 (1): e110-e119
- **The Effect of Obstructive Sleep Apnea Treatment and Severity on Choroidal Thickness in Patients With Central Serous Chorioretinopathy** *JOURNAL OF VITREORETINAL DISEASES*
Azad, A. D., Davila, J. R., Rayess, N., Cao, M., Mruthyunjaya, P., Pan, C. K.
2022; 6 (1): 22-30
- **Reply to Comment on: The Effect of Obstructive Sleep Apnea on Absolute Risk of Central Serous Chorioretinopathy** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
Pan, C. K., Vail, D., Bhattacharya, J., Cao, M., Mruthyunjaya, P.
2021; 226: 271-272
- **Treatment for Diabetic Retinal Disease: Impact of Early/Prophylactic Treatment**
Pan, C. K.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Comparison of Telemedicine Screening of Diabetic Retinopathy by Mydriatic Smartphone-Based vs Nonmydriatic Tabletop Camera-Based Fundus Imaging.** *Journal of vitreoretinal diseases*
Han, Y. S., Pathipati, M., Pan, C., Leung, L., Blumenkranz, M. S., Myung, D., Toy, B. C.
2021; 5 (3): 199-207
- **Reply to Comment on: The Effect of Obstructive Sleep Apnea on Absolute Risk of Central Serous Chorioretinopathy.** *American journal of ophthalmology*
Pan, C. K., Vail, D., Bhattacharya, J., Cao, M., Mruthyunjaya, P.
2021
- **Impact of Obstructive Sleep Apnea Treatment on Choroidal Thickness in Patients with Central Serous Chorioretinopathy**
Davila, J., Azar, A., Pasricha, M. V., Al-Moujahed, A., Mruthyunjaya, P., Pan, C. K.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Vitelliform Vitreoretinopathy: Clinical Implications of the Vitreomacular Interface.** *Oman journal of ophthalmology*
Garcia, G. A., Tang, P. H., Pan, C. K., Mruthyunjaya, P.
2020; 13 (2): 100–101
- **The Effect of Obstructive Sleep Apnea on Absolute Risk of Central Serous Chorioretinopathy.** *American journal of ophthalmology*
Pan, C. K., Vail, D. n., Bhattacharya, J. n., Cao, M. n., Mruthyunjaya, P. n.
2020

- **Nonmydriatic Photographic Screening for Diabetic Retinopathy in Pregnant Patients with Pre-Existing Diabetes in a Safety Net Population** *Women's Health Reports*
Veerappan Pasricha, M., So, J., Myung, D., Jelks, A., Pan, C. K.
2020; 1 (1): 436-443
- **Questions on Rhegmatogenous Retinal Detachment and the Day of the Week of Repair or Diagnosis-Reply.** *JAMA ophthalmology*
Vail, D. n., Pan, C. K., Mruthyunjaya, P. n.
2020
- **Brolucizumab: Evolution through Preclinical and Clinical Studies and the Implications for the Management of Neovascular Age-Related Macular Degeneration.** *Ophthalmology*
Nguyen, Q. D., Das, A. n., Do, D. V., Dugel, P. n., Gomes, A. n., Holz, F. G., Koh, A. n., Pan, C. n., Sepah, Y. J., Patel, N. n., MacLeod, H. n., Maurer, P. n.
2020
- **Association of Rhegmatogenous Retinal Detachment and Outcomes With the Day of the Week That Patients Undergo a Repair or Receive a Diagnosis.** *JAMA ophthalmology*
Vail, D., Pan, C., Pershing, S., Mruthyunjaya, P.
2019
- **Nonmydriatic Photographic Screening for Diabetic Retinopathy in Pregnant Patients with Pre-existing Diabetes in a County Population**
Veerappan, M., Myung, D., Jelks, A., Pan, C. K.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **ENDOGENOUS KLEBSIELLA PNEUMONIAE ENDOPHTHALMITIS IN NORTHERN CALIFORNIA.** *Retina (Philadelphia, Pa.)*
Shields, R. A., Smith, S. J., Pan, C. K., Do, D. V.
2019; 39 (3): 614–20
- **ENDOGENOUS KLEBSIELLA PNEUMONIAE ENDOPHTHALMITIS IN NORTHERN CALIFORNIA** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
Shields, R. A., Smith, S. J., Pan, C. K., Do, D. V.
2019; 39 (3): 614–20
- **Baseline characteristics associated with good visual acuity outcomes in myopic choroidal neovascularization: results from the RADIANCE trial**
Pan, C., Do, D. V., Hill, L., Ecoiffier, T., Stoilov, I.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **POLYPOIDAL CHOROIDAL VASCULOPATHY: A CLINICOPATHOLOGIC STUDY.** *Retinal cases & brief reports*
Moussa, K., Bloomer, M. M., Schwartz, D. M., Pan, C. K., Toy, B. C., Crawford, J. B., Afshar, A. R.
2017; 11 Suppl 1: S128–S131
- **Smartphone-Based Tele-Ophthalmology Screening for Diabetic Retinopathy**
Toy, B. C., Prabhu, M., Pan, C., Leung, L., Blumenkranz, M.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016
- **SMARTPHONE-BASED DILATED FUNDUS PHOTOGRAPHY AND NEAR VISUAL ACUITY TESTING AS INEXPENSIVE SCREENING TOOLS TO DETECT REFERRAL WARRANTED DIABETIC EYE DISEASE** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
Toy, B. C., Myung, D. J., He, L., Pan, C. K., Chang, R. T., Polkinhorne, A., Merrell, D., Foster, D., Blumenkranz, M. S.
2016; 36 (5): 1000-1008
- **Morphologic features and evolution of inner retinal dimples on optical coherence tomography after internal limiting membrane peeling.** *Retina (Philadelphia, Pa.)*
Amouyal, F., Shah, S. U., Pan, C. K., Schwartz, S. D., Hubschman, J. P.
2014; 34 (10): 2096-102
- **Spontaneous Resolution of Clinically Apparent Submacular Fluid After Scleral Buckling Surgery** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Lin, W., Pan, C. K., Tsui, I.
2014; 45 (5): 474–77

- **Embryonic stem cells as a treatment for macular degeneration.** *Expert opinion on biological therapy*
Pan, C. K., Heilwell, G., Lanza, R., Schwartz, S. D.
2013; 13 (8): 1125-33
- **Peripheral fluorescein angiographic findings in fellow eyes of patients with branch retinal vein occlusion.** *International journal of inflammation*
Tsui, I., Bajwa, A., Franco-Cardenas, V., Pan, C. K., Kim, H. Y., Schwartz, S. D.
2013; 2013: 464127
- **Embryonic stem cell trials for macular degeneration: a preliminary report.** *Lancet (London, England)*
Schwartz, S. D., Hubschman, J. P., Heilwell, G., Franco-Cardenas, V., Pan, C. K., Ostrick, R. M., Mickunas, E., Gay, R., Klimanskaya, I., Lanza, R.
2012; 379 (9817): 713-20
- **Ocriplasmin for Vitreoretinal Diseases** *JOURNAL OF BIOMEDICINE AND BIOTECHNOLOGY*
Tsui, I., Pan, C. K., Rahimy, E., Schwartz, S. D.
2012: 354979
- **Comparison of Long-Acting Bevacizumab Formulations in the Treatment of Choroidal Neovascularization in a Rat Model** *JOURNAL OF OCULAR PHARMACOLOGY AND THERAPEUTICS*
Pan, C. K., Durairaj, C., Kompella, U. B., Agwu, O., Oliver, S. C., Quiroz-Mercado, H., Mandava, N., Olson, J. L.
2011; 27 (3): 219-224