



Edward H. Wood, MD

Assistant Professor of Ophthalmology at the Stanford University Medical Center

CLINICAL OFFICES

- **Stanford Byers Eye Institute**

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Bio

BIO

Assistant Professor Edward H. Wood, MD is a board certified and fellowship trained vitreoretinal surgeon in the department of ophthalmology at the Byers Eye Institute, Stanford University School of Medicine.

Dr. Wood's clinical practice focuses on both adult and pediatric vitreoretinal disease. His approach to patients with retinal disorders is to ensure that every patient and their family are treated with respect and compassion. Dr. Wood takes a team approach in creating a treatment plan tailored to each patient's individual needs with the goal of achieving a lifetime of useful and high quality vision.

In addition to medical and surgical care for retina patients, Dr. Wood engages in translational research with the goal of developing new therapies and approaches for patients without viable treatment options. He does so through leveraging the technologies of patient derived stem cells, optogenetics, and phenotypic drug screening in conjunction with active clinical research and surgical device development. Dr. Wood has filed numerous patents and founded several healthcare startups with the goal of improving patients' quality of life. Areas of interest include age-related macular degeneration, diabetic retinopathy, retinal vascular disease, retinal detachment, retinopathy of prematurity, familial exudative vitreoretinopathy, congenital x-linked retinoschisis, stickler syndrome, surgery for the macula (such as treatment of epiretinal membranes and macular holes), and correction of aphakia and dislocated intraocular lenses. His research interests are significantly inspired by his patients, and he is driven towards not only delivering the highest quality of care currently available, but also in developing the future standard of care in the field of medical retina and vitreoretinal surgery.

Dr. Wood received his BS in Neuroscience from Vanderbilt University graduating Magna cum laude with Honors, and was elected to Phi Beta Kappa honor society. He then returned to his home state to complete medical school at the University of Kentucky where he served as Class President and was elected to the Alpha Omega Alpha Honor Society. Following this, he completed his ophthalmology residency at Stanford University where he served as chief resident and was awarded the Heed Fellowship, the most prestigious national award for ophthalmology residents in the country. He underwent fellowship training in adult and pediatric vitreoretinal surgery at Associated Retinal Consultants of William Beaumont Hospital, under the mentorship of distinguished retina faculty such as Dr. Michael Trese, Dr. George Williams, Dr. Antonio Capone, Dr. Tamer Mahmoud, and others. In 2018, he received the Ronald G. Michels Fellowship Award, the highest honor for a vitreoretinal

surgery fellow in the United States. Following fellowship, Dr. Wood returned to Stanford University's School of Medicine as an Assistant Professor of Vitreoretinal Surgery in the Department of Ophthalmology.

He has published over 40 peer-reviewed scientific manuscripts and book chapters, and presents regularly at national and international symposia. He is a member of the American Academy of Ophthalmology, the Association for Research in Vision and Ophthalmology, and the American Society of Retina Specialists.

CLINICAL FOCUS

- Ophthalmology

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Ophthalmology
- Member, Bio-X

HONORS AND AWARDS

- Ronald G. Michels Fellow, Ronald G. Michels Fellowship Foundation (2018)
- Best Consulting Department of the Year Award, Stanford Hospitals and Clinics / Kaiser Emergency Medicine Residency (2017)
- Chief Resident in Ophthalmology, Stanford University School of Medicine (2017)
- Heed Fellow, Heed Ophthalmic Foundation and Society of Heed Fellows (2017)
- Heed Ophthalmic Foundation Residents Retreat, Heed Ophthalmic Foundation (2016)
- Stanford Society of Physician Scholars and Stanford MedScholars, Stanford University School of Medicine (2015)
- Patient Advocate Honor, University Medical Center Brackenridge, Transitional Year Program (2014)
- Francis Massie Award from the Department of Surgery, University of Kentucky College of Medicine (2013)
- Alpha Omega Alpha Honor Medical Society, University of Kentucky College of Medicine (2012)
- Elected Medical School Class President, University of Kentucky College of Medicine (2011-2013)
- Best Research Poster out of over 1,000 submissions, American Society of Retinal Specialists (ASRS) Annual Meeting (2011)
- Graduated Magna Cum Laude with Distinction, Vanderbilt University (2008)
- Phi Beta Kappa, Phi Beta Kappa at Vanderbilt University (2008)
- Vanderbilt College Scholars Program, Vanderbilt University (2005)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Ophthalmology (2019)
- Vitreoretinal Fellowship, Associated Retinal Consultants of William Beaumont Hospital , Medical and Surgical Retina; Ronald G. Michels Fellow (2019)
- Ophthalmology Residency, Stanford University School of Medicine , Ophthalmology; Chief Resident, Heed Fellow (2017)
- Medical Internship, Dell Medical School at University of Texas Austin , Medicine and Surgery; Patient Advocate Honor (2014)
- MD, University of Kentucky College of Medicine , Medicine; Elected Class President (2013)
- BS, Vanderbilt University , Neuroscience with Distinction; Magna Cum Laude, Phi Beta Kappa (2008)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Edward H. Wood, MD is an assistant professor of ophthalmology practicing adult and pediatric vitreoretinal surgery at Stanford University School of Medicine. Dr. Wood engages in translational research with the goal of developing new therapies and approaches for patients without viable treatment options. He does so through leveraging the technologies of patient derived stem cells, optogenetics, and phenotypic drug screening in conjunction with active clinical research and surgical device

development. Dr. Wood has filed numerous patents and founded several healthcare startups with the goal of improving patients' quality of life. His research interests include regenerative medicine, drug discovery, and pediatric retinal disease with the ultimate goal of pursuing basic science discoveries with potential for impactful clinical translation. His research interests are significantly inspired by his patients, and he is driven towards not only delivering the highest quality of care currently available, but also in developing the future standard of care in the field of medical retina and vitreoretinal surgery.

Publications

PUBLICATIONS

- **The retina revolution: signaling pathway therapies, genetic therapies, mitochondrial therapies, artificial intelligence.** *Current opinion in ophthalmology*
Wood, E. H., Korot, E., Storey, P. P., Muscat, S., Williams, G. A., Drenser, K. A.
2020
- **A renaissance of teleophthalmology through artificial intelligence** *EYE*
Korot, E., Wood, E., Weiner, A., Sim, D. A., Trese, M.
2019; 33 (6): 861–63
- **STEM CELL THERAPIES, GENE-BASED THERAPIES, OPTOGENETICS, AND RETINAL PROSTHETICS: CURRENT STATE AND IMPLICATIONS FOR THE FUTURE** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
Wood, E. H., Tang, P. H., De la Huerta, I., Korot, E., Muscat, S., Palanker, D. A., Williams, G. A.
2019; 39 (5): 820–35
- **The Impact of Prefilled Syringes on Endophthalmitis Following Intravitreal Injection of Ranibizumab** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
Storey, P. P., Tauqeer, Z., Yonekawa, Y., Todorich, B., Wolfe, J. D., Shah, S. P., Shah, A. R., Koto, T., Abbey, A. M., Morizane, Y., Sharma, P., Wood, E. H., Morizane-Hosokawa, et al
2019; 199: 200–208
- **Preventing Progression in Nonexudative Age-Related Macular Degeneration With Subthreshold Laser Therapy: A Systematic Review** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Eng, V. A., Wood, E. H., Boddu, S., Karth, P. A., Leng, T.
2019; 50 (3): E61–E70
- **STEM CELL THERAPIES, GENE-BASED THERAPIES, OPTOGENETICS, AND RETINAL PROSTHETICS: CURRENT STATE AND IMPLICATIONS FOR THE FUTURE.** *Retina (Philadelphia, Pa.)*
Wood, E. H., Tang, P. H., De la Huerta, I., Korot, E., Muscat, S., Palanker, D. A., Williams, G. A.
2019
- **ETIOLOGY AND CLINICAL CHARACTERISTICS OF MACULAR EDEMA IN PATIENTS WITH FAMILIAL EXUDATIVE VITREORETINOPATHY.** *Retina (Philadelphia, Pa.)*
Rao, P., Lertjirachai, I., Yonekawa, Y., Hasbrook, M., Thomas, B. J., Wood, E. H., Mehta, N., Mane, G., Drenser, K. A., Trese, M. T., Capone, A.
2019
- **Late re-activation of Coats disease.** *American journal of ophthalmology case reports*
Lertjirachai, I., Wood, E. H., Moinuddin, O., Drenser, K. A.
2019; 15: 100458
- **Correlating Changes in the Macular Microvasculature and Capillary Network to Peripheral Vascular Pathologic Features in Familial Exudative Vitreoretinopathy.** *Ophthalmology. Retina*
Koulisis, N., Moysidis, S. N., Yonekawa, Y., Dai, Y. L., Burkemper, B., Wood, E. H., Lertjirachai, I., Todorich, B., Khundkar, T. Z., Chu, Z., Wang, R. K., Williams, G. A., Drenser, et al
2019; 3 (7): 597–606
- **Diagnosis and Management of Familial Exudative Vitreoretinopathy: A Lifelong, Progressive, and Often Asymmetric Disease.** *JAMA ophthalmology*
Wood, E. H., Drenser, K. A., Capone, A.
2019
- **Surgical Management of Suprachoroidal Hemorrhage in Younger Patients.** *Ophthalmic surgery, lasers & imaging retina*
Wood, E. H., Moinuddin, O., Rao, P., Drenser, K. A., Trese, M. T., Capone, A.
2019; 50 (7): 454–58

- **Adult Coats' Disease, Dubin-Johnson Syndrome, and the Search for Targeted Therapies.** *Ophthalmic surgery, lasers & imaging retina*
Moinuddin, O., Wood, E. H., Drenser, K. A.
2019; 50 (5): 318–21
- **The Natural History of Congenital X-Linked Retinoschisis and Conversion between Phenotypes over Time.** *Ophthalmology. Retina*
Wood, E. H., Lertjirachai, I., Ghiam, B. K., Koulistis, N., Moysidis, S. N., Dirani, A., Drenser, K. A., Capone, A., Trese, M. T.
2019; 3 (1): 77–82
- **Considerations for ophthalmic applications of optogenetics** *ACTA OPHTHALMOLOGICA*
Wood, E. H., Kreymerman, A., Sun, Y., Drenser, K. A., Trese, M. T.
2018; 96 (8): E1037
- **Orbital, eyelid, and nasopharyngeal silicone oil granuloma presenting as ptosis & pseudo-xanthelasma.** *American journal of ophthalmology case reports*
Powers, M. A., Wood, E. H., Erickson, B. P., Singh, K., Sanislo, S. R., Kossler, A. L.
2018; 11: 45–48
- **A new mitochondrial disease: MICHRED "Mitochondrial disorder with Intracranial Calcification, REnal disease, RETinopathy, and Deafness."**
Wood, E., Kreymerman, A., Randhawa, S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Correspondence.** *Retina (Philadelphia, Pa.)*
Gaynon, M. W., Wood, E. H., Powers, M. A., Sanislo, S. R.
2018; 38 (5): e36–e37
- **Genetic Testing for Retina Specialists** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Wood, E. H., Hariprasad, S. M., Drenser, K. A.
2018; 49 (5): 292–95
- **Fellow Eye Anti-VEGF 'Crunch' Effect in Retinopathy of Prematurity.** *Ophthalmic surgery, lasers & imaging retina*
Wood, E. H., Rao, P., Moysidis, S. N., Dedania, V. S., Elman, M. J., Drenser, K. A., Capone, A., Trese, M. T.
2018; 49 (9): e102–e104
- **PRN Ranibizumab in the Treatment of Choroidal Neovascularization Secondary to Ocular Histoplasmosis** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Wood, E. H., Whitted, R. J., Stone, T. W., Isernhagen, R. D., Wood, W. J., Holcomb, D. M., Kitchens, J. W.
2018; 49 (1): 20–26
- **Spontaneous Globe Rupture Due to Rapidly Evolving Endogenous Hypermuroid Klebsiella Pneumoniae Endophthalmitis** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
Wood, E. H., Powers, M. A., Moshfeghi, D. M.
2017; 48 (7): 600–601
- **Regarding 'Advances of optical coherence tomography in myopia and pathologic myopia'.** *Eye (London, England)*
Wood, E. H., Powers, M. A., Sanislo, S. R., Gaynon, M. W.
2017
- **Bilateral frosted branch angiitis as the presenting sign of antiphospholipid antibody syndrome.** *Journal of ophthalmic inflammation and infection*
Wood, E. H., Wong, R. W.
2016; 6 (1): 20-?
- **NONDAMAGING RETINAL LASER THERAPY FOR TREATMENT OF CENTRAL SEROUS CHORIORETINOPATHY: What is the Evidence?** *Retina (Philadelphia, Pa.)*
Wood, E. H., Karth, P. A., Sanislo, S. R., Moshfeghi, D. M., Palanker, D. V.
2016: -?
- **Intraocular pressure measurement in the emergency department is inconsistently documented and significantly varies from ophthalmologist IOP**
Pathipati, A. S., Wood, E., Lam, C. K., Sales, C., Moshfeghi, D. M.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016
- **Evaluation of Visunex Medical's PanoCam(TM) LT and PanoCam(TM) Pro wide-field imaging systems for the screening of ROP in newborn infants.** *Expert review of medical devices*

- Wood, E. H., Moshfeghi, A. A., Nudleman, E. D., Moshfeghi, D. M.
2016; 13 (8): 705-712
- **Comment on: 'Effectiveness of a smartphone application for testing near visual acuity'** *EYE*
Wood, E. H., Moshfeghi, D. M.
2016; 30 (7): 1028
 - **Visual acuity measured with a smartphone app is more accurate than Snellen testing by emergency department providers** *GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY*
Pathipati, A. S., Wood, E. H., Lam, C. K., Sales, C. S., Moshfeghi, D. M.
2016; 254 (6): 1175-1180
 - **Multi-Modal Longitudinal Evaluation of Subthreshold Laser Lesions in Human Retina, Including Scanning Laser Ophthalmoscope-Adaptive Optics Imaging.** *Ophthalmic surgery, lasers & imaging retina*
Wood, E. H., Leng, T., Schachar, I. H., Karth, P. A.
2016; 47 (3): 268-275
 - **Short-Term Outcomes of Aflibercept Therapy for Diabetic Macular Edema in Patients With Incomplete Response to Ranibizumab and/or Bevacizumab.** *Ophthalmic surgery, lasers & imaging retina*
Wood, E. H., Karth, P. A., Moshfeghi, D. M., Leng, T.
2015; 46 (9): 950-954
 - **Analysis of Varicella-Zoster Virus in Temporal Arteries Biopsy Positive and Negative for Giant Cell Arteritis.** *JAMA neurology*
Nagel, M. A., White, T., Khmeleva, N., Rempel, A., Boyer, P. J., Bennett, J. L., Haller, A., Lear-Kaul, K., Kandasmy, B., Amato, M., Wood, E., Durairaj, V., Fogt, et al
2015; 72 (11): 1281-87
 - **Prevalence and distribution of VZV in temporal arteries of patients with giant cell arteritis.** *Neurology*
Gilden, D., White, T., Khmeleva, N., Heintzman, A., Choe, A., Boyer, P. J., Grose, C., Carpenter, J. E., Rempel, A., Bos, N., Kandasamy, B., Lear-Kaul, K., Holmes, et al
2015; 84 (19): 1948-55
 - **Neovascular AMD with marked macular fluid and rapid response to anti-VEGF therapy.** *Ophthalmic surgery, lasers & imaging retina*
Wood, E., Chang, J. S., Flynn, H. W., Kitchens, J. W.
2014; 45 (2): 175-78
 - **A pharmacogenetics study to predict outcome in patients receiving anti-VEGF therapy in age related macular degeneration.** *Clinical ophthalmology (Auckland, N.Z.)*
Kitchens, J. W., Kassem, N., Wood, W., Stone, T. W., Isernhagen, R., Wood, E., Hancock, B. A., Radovich, M., Waymire, J., Li, L., Schneider, B. P.
2013; 7: 1987-93