Stanford

Theodore Leng, MD, FACS

Associate Professor of Ophthalmology and, by courtesy, of Anesthesiology, Perioperative and Pain Medicine (Adult MSD)

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

  2452 Watson Ct

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  Palo Alto, CA 94303

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Sara Horca - Administrative Associate IV

  Email shorca@stanford.edu

  Tel 650-497-1182

Bio

BIO

Dr. Leng is considered to be one of the top 150 worldwide leading innovators in the field of medical and surgical retina and serves the Department of Ophthalmology as both the Director of Clinical and Translational Research and the Director of Ophthalmic Diagnostics.

As a board-certified ophthalmologist and fellowship-trained vitreoretinal surgeon, Dr. Leng uses the latest techniques and small-incisional sutureless technology to minimize patient discomfort and maximize functional outcomes. He is committed to bringing the highest level of patient-centered care for all types of retinal conditions.

BIOGRAPHY

Theodore Leng, MD, MS, FACS received his AB in Philosophy and BS in Biological Sciences from Stanford University, graduating with Departmental Honors. He received his Masters of Science in Biological Sciences from Stanford University while conducting research at the Hopkins Marine Station in Pacific Grove, CA on cellular ion membrane channels. Dr. Leng received his medical degree from the Stanford University School of Medicine, during which he completed a Howard Hughes Medical Institute Research Training Fellowship.

Dr. Leng completed his ophthalmology residency at Bascom Palmer Eye Institute, the highest ranked eye hospital and residency training program in the country. He was awarded the Heed Fellowship, the most prestigious national award for ophthalmologists entering a career in academic medicine. Dr. Leng returned to Stanford University to complete a fellowship in vitreoretinal diseases and surgery and was awarded the Paul Kayser International Travel Scholarship to work in Santiago, Chile. He has been a full-time faculty member of the Stanford University Department of Ophthalmology since 2010 and has been named one of “America’s Top Ophthalmologists” by the Consumers’ Research Council of America and is a Castle Connolly "Top Doctor."

In addition to his clinical practice, Dr. Leng has a vibrant clinical and basic science research program and has published over 200 peer-reviewed scientific manuscripts, book chapters and abstracts. He is frequently invited to speak at national and international meetings. Dr. Leng serves as the Associate Editor of the peer-reviewed

journal, Ophthalmic Surgery Lasers & Imaging Retina. Dr. Leng serves the Stanford Health Care community as the Medical Informatics Director for Ambulatory Specialties, helping to integrate technology solutions to advance clinical care.

Dr. Leng is a Fellow of the American Academy of Ophthalmology, the American College of Surgeons, and the American Society of Retina Specialists. He is also a member of the Association for Research in Vision and Ophthalmology, the Retina Society, the Macula Society, the Vit-Buckle Society, and is a founding board member of the Digital Ophthalmic Society. He volunteers his time as a Command Pilot for the Angel Flight West organization. Dr. Leng has served as the President of the Stanford Medicine Alumni Association to support its mission of reaching, inspiring, serving and engaging over 26,000 Stanford Medicine alumni.

CLINICAL FOCUS

- Macular Degeneration, Diabetic Retinopathy, Retinal Vascular Disease, Retinal Detachment
- Macular Edema, Macular Hole, Epiretinal Membrane
- Branch and Central Retinal Vein Occlusion, Macular Pucker
- Retina Specialist

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Ophthalmology
- Associate Professor - University Medical Line (By courtesy), Anesthesiology, Perioperative and Pain Medicine
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Medical Informatics Director, Ambulatory Specialties, Stanford Health Care, (2023- present)
- Director, Clinical and Translational Research, (2015- present)
- Member, Committee for Ophthalmology Diversity Equity and Inclusion (CODE-I), (2022- present)
- Co-Founder and Co-Chair, Ophthalmic Artificial Intelligence Summit, (2021- present)
- Member, Ophthalmology Department Wellness Committee, (2022- present)
- Director, Ophthalmic Diagnostics, (2010- present)
- Founder and Medical Director, Stanford Ophthalmic Reading Center (STARC), (2016- present)
- Member, Stanford EPIC Provider SuperUser Network (SUN), (2016- present)
- IT Physician Advocate, Stanford Health Care, (2015- present)
- Ophthalmology Department Liaison, Stanford Health Care Main Operating Rooms, (2013-2017)

HONORS AND AWARDS

- Top Doctor, Castle Connolly (2017 - 2023)
- Best of Palo Alto, Ophthalmologists, Palo Alto Business Award Program (2019)
- Honor Award, American Society of Retina Specialists (2019)
- Achievement Award, American Academy of Ophthalmology (2017)
- OSN Retina 150, Healio (2016)
- Certificate of Recognition for a Technical Innovation, NASA (2015)
- America's Top Ophthalmologists, Consumers Research Council of America (2012 - 2014)
- Heed Fellowship, Heed Ophthalmic Foundation (2010)
- Mentoring Program in Ophthalmology Scholarship, Annenberg Center for Health Sciences at Eisenhower (2009)

- Paul Kayser International Travel Scholar, Pan-American Ophthalmological Foundation (2009)
- ARVO Travel Award, National Eye Institute (2003)
- Certificate of Recognition for Technical Innovation, NASA (2003)
- Certificate of Recognition for a US Patent, NASA (2003)
- Howard Hughes Medical Institute Research Training Fellowship, Howard Hughes Medical Institute (2003)
- Medical Scientist Research Fellowship, Stanford Medical Scholars Program (2003)
- AMA Travel Award, American Medical Association (2001)
- Baxter Foundation Scholar, Stanford Medical Scholars Program (2001)
- Kolos Scholar, Stanford Medical Scholars Program (2001)
- Award for Excellence in Teaching, Stanford Department of Biological Sciences (2000)
- Firestone Medal for Excellence in Research, Stanford University (1999)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Grant Scientific Review Committee Member, BrightFocus Macular Degeneration Research Foundation (2022 - present)
- Planning Committee Member, American Society of Cataract and Refractive Surgery Digital Subspecialty Day (2022 - present)
- Mentor, American Society of Retina Specialists Underrepresented in Retina Mentorship Program (2022 - present)
- Founding Board Member, Digital Ophthalmic Society (2021 - present)
- Associate Editor, Ophthalmic Surgery, Lasers, and Imaging Retina (2016 - present)
- Editorial Board Member, Journal of Ophthalmology (2013 - 2022)
- Editorial Board Member, Asia-Pacific Journal of Ophthalmology (2019 - 2021)
- President, Stanford Medicine Alumni Association Board of Governors (2015 - 2017)
- Director, Stanford Medicine Alumni Association Board of Governors (2010 - 2020)
- Fellow, American Academy of Ophthalmology (2011 - present)
- Fellow, American College of Surgeons (2012 - present)
- Member, The Retina Society (2014 - present)
- Member, The Macula Society (2016 - present)
- Member, American Society of Retina Specialists (2009 - present)
- Member, Vit-Buckle Society (2012 - present)
- Life Member, Society of Heed Fellows (2012 - present)
- Member, Association for Research in Vision and Ophthalmology (2001 - present)
- Editorial Board Member, Ophthalmic Surgery, Lasers, and Imaging Retina (2012 - present)
- Editorial Board Member, American Society of Retina Specialists Retina Image Bank (2013 - present)
- Editorial Board Member, The Open Ophthalmology Journal (2014 - present)
- Editorial Board Member, Journal of Ophthalmic Research (2013 - present)
- Editorial Board Member, Journal of Clinical & Medical Case Reports (2013 - present)
- Member, Ophthalmology Innovation Network (2012 - present)
- Member, American Academy of Ophthalmology EyeWiki Retina/Vitreous Section Committee (2014 - 2021)
- Medical and Surgical Retina Section Editor, The Eye Handbook (2012 - 2021)
- Member, Howard Hughes Medical Institute Bay Area Alumni Network Steering Committee (2012 - 2021)
- Lead Faculty Member, WebMedCentral (2011 - 2021)

- Contributing Editor, OphthalmologyWeb (2008 - 2021)

PROFESSIONAL EDUCATION

- Residency: Bascom Palmer Eye Institute (2009) FL
- Board Recertification, American Board of Ophthalmology , Ophthalmology (2021)
- Fellowship: Stanford University Retina and Vitreous Fellowship (2010) CA
- Board Certification: Ophthalmology, American Board of Ophthalmology (2010)
- Internship: Huntington Memorial Hospital (2006) CA
- Medical Education: Stanford School of Medicine (2005) CA
- MS, Stanford University , Biological Sciences (2000)
- AB/BS, Stanford University , Philosophy & Biological Sciences (1999)

COMMUNITY AND INTERNATIONAL WORK

- Angel Flight West
- Veterans Airlift Command
- Arbor Free Clinic, Menlo Park
- Haitian Eye Initiative, Cap Haitian, Milot, Thomonde

LINKS

- Leng Research Group: http://med.stanford.edu/leng.html
- LinkedIn: https://www.linkedin.com/in/theodoreleng/
- Twitter: https://twitter.com/tedleng

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Leng was the first surgeon in California to perform a subretinal transplant of adult neural stem cells into patients with macular degeneration and is actively researching cellular, biologic and laser-based therapies for macular degeneration. He also has an active program in imaging informatics and deep learning to perform big data analyses of retinal scans to identify patients who are at risk for retinal disease deterioration. The end goal is earlier detection and rapid treatment to maximize visual outcomes.

Dr. Leng is considered a leading expert on optical coherence tomography (OCT) and OCT-based angiography (OCTA), a non-invasive and non-contact imaging technique for the retina. He is also considered a key opinion leader in artificial intelligence and data science.

CLINICAL TRIALS

- A Phase I Study of Episcleral Dexamethasone for Treatment of Macular Edema, Recruiting
- A Study Investigating the Safety and Efficacy of Lampalizumab Intravitreal Injections in Participants With Geographic Atrophy Secondary to Age-Related Macular Degeneration, Recruiting
- Efficacy and Safety Study of Squalamine Ophthalmic Solution in Subjects With Neovascular AMD, Recruiting
- Episcleral Dexamethasone for Treatment of Macular Edema and Inflammatory Disorders of the Posterior Pole, Recruiting
- Long-Term Follow-up Safety Study of Human Central Nervous System Stem Cells in Subjects With Geographic Atrophy of Age-Related Macular Degeneration, Recruiting
- Phase I Study of Episcleral Celecoxib for Treatment of Macular Edema and Inflammatory Disorders of the Posterior Pole, Recruiting
- Safety and Efficacy of Abicipar Pegol in Participants With Neovascular Age-related Macular Degeneration, Recruiting

- Study of Human Central Nervous System Stem Cells (HuCNS-SC) in Age-Related Macular Degeneration (AMD), Recruiting
- Endogenous Endophthalmitis in the Inpatient Setting, Not Recruiting
- Outcomes of Diabetic Macula Edema Patients Switched to Aflibercept From Bevacizumab and/or Ranibizumab, Not Recruiting
- Phase 2/3, Randomized, Double-Masked, Sham-Controlled Trial of QPI-1007 in Subjects With Acute Nonarteritic Anterior Ischemic Optic Neuropathy (NAION), Not Recruiting
- Rates of Apnea in Patients Undergoing Vitreoretinal Surgery, Not Recruiting
- Study Evaluating Intravitreal hI-con1™ in Patients With Choroidal Neovascularization Secondary to Age-related Macular Degeneration, Not Recruiting
- Study of Bimonthly VEGF Trap-Eye Compared to As-needed Administration or Other Therapy for Exudative Age-Related Macular Degeneration, Not Recruiting
- Study of HUCNS-SC Subretinal Transplantation in Subjects With GA of AMD, Not Recruiting
- Study of Pegcetacoplan (APL-2) Therapy in Patients With Geographic Atrophy, Not Recruiting
- Vision Outcomes Using Quantitative Optical Coherence Tomography Evaluation in Age Related Macular Degeneration, Not Recruiting

PROJECTS

- Automated Analysis of Retinal OCT Images - Stanford University (2012 - present)

Publications

PUBLICATIONS

- **Impact of Anti-VEGF Treatment and Patient Characteristics on Vision Outcomes in Neovascular Age-related Macular Degeneration: Up to 6-Year Analysis of the AAO IRIS® Registry.** *Ophthalmology science*
  Wykoff, C. C., Garmo, V., Tabano, D., Menezes, A., Kim, E., Fevrier, H. B., LaPrise, A., Leng, T.
  2024; 4 (2): 100421
- **Feasibility of cross-vendor linkage of ophthalmic images with electronic health record data: an analysis from the IRIS Registry®.** *JAMIA open*
  Mbagwu, M., Chu, Z., Borkar, D., Koshta, A., Shah, N., Torres, A., Kalvaria, H., Lum, F., Leng, T.
  2024; 7 (1): ooae005
- **Quantitative Characterization of Retinal Features in Translated OCTA.** *medRxiv : the preprint server for health sciences*
  Badhon, R. H., Thompson, A. C., Lim, J. I., Leng, T., Alam, M. N.
  2024
- **Acute Subretinal Fluid Accumulation Induced by Futibatinib Therapy for Malignant Metastatic Breast Cancer** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Chhoy, B., Wai, K. M., Leng, T.
  2024; 55 (2): 109-111
- **AI-Human Hybrid Workflow Enhances Teleophthalmology for the Detection of Diabetic Retinopathy.** *Ophthalmology science*
  Dow, E. R., Khan, N. C., Chen, K. M., Mishra, K., Perera, C., Narala, R., Basina, M., Dang, J., Kim, M., Levine, M., Phadke, A., Tan, M., Weng, et al
  2023; 3 (4): 100330
- **Progression of Geographic Atrophy: Retrospective Analysis of Patients from the IRIS® Registry (Intelligent Research in Sight).** *Ophthalmology science*
  Rahimy, E., Khan, M. A., Ho, A. C., Hatfield, M., Nguyen, T. H., Jones, D., McKeown, A., Borkar, D., Leng, T., Ribeiro, R., Holekamp, N.
  2023; 3 (4): 100318
- **Artificial Intelligence Improves Patient Follow-Up in a Diabetic Retinopathy Screening Program.** *Clinical ophthalmology (Auckland, N.Z.)*
  Dow, E. R., Chen, K. M., Zhao, C. S., Knapp, A. N., Phadke, A., Weng, K., Do, D. V., Mahajan, V. B., Mruthyunjaya, P., Leng, T., Myung, D.
  2023; 17: 3323-3330
- **Vitreoretinal Specialist Use of Ancillary Testing: An IRIS® Registry Analysis.** *Clinical ophthalmology (Auckland, N.Z.)*
  Vishwakarma, S., Borkar, D. S., LaPrise, A., Mbagwu, M., Leng, T.
  2023; 17: 3077-3085
- **Federated learning for diagnosis of age-related macular degeneration.** *Frontiers in medicine*
  Gholami, S., Lim, J. I., Leng, T., Ong, S. S., Thompson, A. C., Alam, M. N.

2023; 10: 1259017

- **Ophthalmology at the Forefront of Big Data Integration in Medicine: Insights from the IRIS Registry Database.** *The Yale journal of biology and medicine*
  Knapp, A. N., Leng, T., Rahimy, E.
  2023; 96 (3): 421-426
- **IMPUTATION OF DISEASE SEVERITY FOR DIABETIC RETINOPATHY CLINICAL ENCOUNTERS IN THE IRIS (R) REGISTRY (INTELLIGENT RESEARCH IN SIGHT)**
  Chapman, R., Nguyen, T., Hatfield, M., Leng, T., Mbagwu, M., Torres, A., Borkar, D.
  ELSEVIER SCIENCE INC.2023: S386
- **Automated identification of geographic atrophy eyes with and without subfoveal involvement using machine learning and real-world ophthalmic images in the IRIS Registry**
  Chu, Z., Leng, T., Borkar, D. S., Candano, C., Le, K., Ramakrishnan, A., Khapare, K., Mbagwu, M., Torres, A.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Real world outcomes from artificial intelligence to detect diabetic retinopathy in the primary care setting: 12 month experience**
  Knapp, A. N., Dow, E., Chen, K., Khan, N. C., Do, D. V., Mahajan, V., Mruthyunjaya, P., Leng, T., Myung, D.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **A federated learning framework for training multi-class OCT classification models**
  Gholami, S., Leng, T., Alam, M.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Geographic atrophy diagnosis in the IRIS® Registry: a comparison between images and ICD-10 codes**
  Chu, Z., Le, K., Leng, T., Borkar, D., Candano, C., Ramakrishnan, A., Khapare, K., Mbagwu, M., Torres, A.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **FARETINA-DME- Early Treatment Patterns and Outcomes in Patients with Diabetic Macular Edema Treated with Faricimab: an IRIS Registry™Analysis**
  Tabano, D., Borkar, D. S., Garmo, V., Shaia, J. K., Kuo, B., Myers, R., LaPrise, A., Leng, T., Singh, R. P.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **FARETINA-AMD- Early Treatment Patterns and Outcomes in Patients with Neovascular Age-Related Macular Degeneration Initiating Faricimab: an IRIS Registry™ Analysis**
  Borkar, D. S., Tabano, D., Garmo, V., Shaia, J. K., Kuo, B., Myers, R., LaPrise, A., Leng, T., Singh, R. P.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Generalizability of Convolutional Neural Network and Vision Transformer-Based OCT Segmentation Models**
  Pely, A., Wu, Z., Leng, T., Gao, S. S., Chen, H., Hejrati, M., Zhang, M.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Clinical and Ophthalmic Biomarkers of Diabetes Mellitus: A Longitudinal Study of Visual Outcome**
  Huang, F., Yu, M., Huang, L., Zhou, X., Wang, R. K., Leng, T., Wang, S., Liao, Y.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Quantification of retinal neuroprotection achieved by two different human neural stem cell formulations in the RCS rat**
  Arrizabalaga, S., Uchida, N., Curtis, A., Navarro, I., Stoddard, J., Tsukamoto, A., Leng, T., Ryals, R.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Contrastive learning-based pretraining improves representation and transferability of diabetic retinopathy classification models.** *Scientific reports*
  Alam, M. N., Yamashita, R., Ramesh, V., Prabhune, T., Lim, J. I., Chan, R. V., Hallak, J., Leng, T., Rubin, D.
  2023; 13 (1): 6047
- **Identifying the mechanism of missingness for unspecified diabetic retinopathy disease severity in the electronic health record: an IRIS® Registry analysis.** *Journal of the American Medical Informatics Association : JAMIA*
  Hatfield, M., Nguyen, T. H., Chapman, R., Myrick, A. C., Leng, T., Mbagwu, M., Baxi, S., Torres, A. Z., Borkar, D. S.
  2023
- **Vitreoretinal Specialist Use of Ancillary Testing: An IRIS® Registry Analysis** *CLINICAL OPHTHALMOLOGY*
  Vishwakarma, S., Borkar, D. S., Laprise, A., Mbagwu, M., Leng, T.

2023; 17: 3085

- **Emulating VIEW 1 and VIEW 2 Clinical Trial Outcome Data Using the American Academy of Ophthalmology IRIS Registry** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Gallivan, M. D., Garcia, K. M., Torres, A. Z., Lum, F., Li, C., Mbagwu, M., Leng, T.
  2023; 54 (1): 6-+
- **Dry Age-Related Macular Degeneration: Distribution of Visual Acuity and Progression Risk in a Large Registry.** *Ophthalmology and therapy*
  Leng, T., Schwartz, J., Nimke, D., Gallivan, M., Fevrier, H., Rozario, N., Schultz, N. M.
  2022
- **Depth-resolved extraction of optical attenuation for glaucoma assessment in clinical settings: a pilot study** *BIOMEDICAL OPTICS EXPRESS*
  Chang, S., Murff, C., Leng, T., Groth, S. L., Bowden, A. K.
  2022; 13 (8): 4326-4337
- **Predicting Systemic Health Features from Retinal Fundus Images Using Transfer-Learning-Based Artificial Intelligence Models.** *Diagnostics (Basel, Switzerland)*
  Khan, N. C., Perera, C., Dow, E. R., Chen, K. M., Mahajan, V. B., Mruthyunjaya, P., Do, D. V., Leng, T., Myung, D.
  2022; 12 (7)
- **Optimal Selection of Longitudinally Measured Imaging Biomarkers Affecting Conversion Time to Neovascular AMD Using a Regularized Multivariate Bayesian Joint Model**
  Sahu, S., De Sisternes, L., Alam, M., Leng, T., Rubin, D., Sun, J., Basu, S., Hallak, J.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Predicting systemic health features from retinal fundus images using transfer-learning based AI models**
  Khan, N. C., Perera, C., Dow, E. R., Leng, T., Mahajan, V. B., Mruthyunjaya, P., Do, D. V., Myung, D.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Automated machine learning for diagnosis of geographic atrophy and subfoveal involvement using real-world fundus autofluorescence and infrared reflectance images**
  Chu, Z., Mbagwu, M., Borka, D., Ramakrishnan, A., Khapare, K., Candano, C., Torres, A. Z., Kalvaria, H., Roe, M. T., Leng, T.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Characterizing real-world functional outcomes in patients with geographic atrophy: An IRIS Registry Analysis**
  Leng, T., Borkar, D. S., Hatfield, M., Li, S., Gallivan, M., Joshi, P., McKeown, A.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **A hierarchical optical coherence tomography annotation workflow with crowds and medical experts**
  Zhang, M., Gao, S. S., Steffen, V., Wu, Z., Leng, T., Tehrani, M., Mirsharif, S., Movva, N., Hejrati, M., Chen, H.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Retrospective cohort analysis of patients with geographic atrophy (GA) secondary to age-related macular degeneration followed for 3 years in clinical practice**
  Khan, M., Rahimy, E., Ho, A. C., Corley, R., Gallivan, M., Jones, D., Ribeiro, R., Leng, T., Holekamp, N. M.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Investigating hyalocyte-like cells in epiretinal membranes using serially acquired optical coherence tomography**
  Soetikno, B., Miller, D., Zhang, H., Goldberg, J. L., Leng, T., Dubra, A.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Integration of Artificial Intelligence into a Telemedicine-Based Diabetic Retinopathy Screening Program**
  Chen, K., Dow, E. R., Khan, N. C., Levine, M., Perera, C., Phadke, A., Dang, J., Weng, K., Do, D. V., Mahajan, V. B., Mruthyunjaya, P., Mishra, K., Leng, et al
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Contrastive learning improves representation and transferability of diabetic retinopathy classification models**
  Alam, M., Leng, T., Hallak, J., Rubin, D.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **A buoyant mass in the brain: Intraventricular migration of silicone oil.** *American journal of ophthalmology case reports*
  Guo, L. Y., Jamiolkowski, R. M., Hassan, M., Leng, T.

2022; 25: 101399

- **Ophthalmology and COVID-19: The Impact of the Pandemic on Patient Care and Outcomes: An IRIS (R) Registry Study** *OPHTHALMOLOGY*
  Leng, T., Gallivan, M. D., Kras, A., Lum, F., Roe, M. T., LI, C., Parke II, D. W., Schwartz, S. D.
  2021; 128 (12): 1782-1784
- **Ocular adverse events following intravitreal brolucizumab for neovascular age-related macular degeneration at a single tertiary care center.** *European journal of ophthalmology*
  Nguyen, H. V., Li, A. S., Silva, A. R., Leng, T.
  2021: 11206721211059332
- **Artificial intelligence and ophthalmic surgery** *CURRENT OPINION IN OPHTHALMOLOGY*
  Mishra, K., Leng, T.
  2021; 32 (5): 425-430
- **Artificial intelligence and ophthalmic surgery.** *Current opinion in ophthalmology*
  Mishra, K., Leng, T.
  2021; 32 (5): 425-430
- **Foundational Considerations for Artificial Intelligence Utilizing Ophthalmic Images.** *Ophthalmology*
  Abramoff, M. D., Cunningham, B., Patel, B., Eydelman, M. B., Leng, T., Sakamoto, T., Blodi, B., Grenon, S. M., Wolf, R. M., Manrai, A. K., Ko, J. M., Chiang, M. F., Char, et al
  2021
- **Imaging and artificial intelligence for progression of age-related macular degeneration.** *Experimental biology and medicine (Maywood, N.J.)*
  Romond, K., Alam, M., Kravets, S., Sisternes, L. d., Leng, T., Lim, J. I., Rubin, D., Hallak, J. A.
  2021: 15353702211031547
- **A Multitask Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multicenter Analysis.** *Diabetes care*
  Tang, F., Wang, X., Ran, A., Chan, C. K., Ho, M., Yip, W., Young, A. L., Lok, J., Szeto, S., Chan, J., Yip, F., Wong, R., Tang, et al
  2021
- **Ophthalmology and COVID-19: The Impact of the Pandemic on Patient Care and Outcomes-an IRIS Registry Study.** *Ophthalmology*
  Leng, T., Gallivan, M. D., Kras, A., Lum, F., Roe, M. T., Li, C., Parke, D. W., Schwartz, S. D.
  2021
- **Probabilistic Forecasting of Anti-VEGF Treatment Frequency in Neovascular Age-Related Macular Degeneration.** *Translational vision science & technology*
  Pfau, M., Sahu, S., Rupnow, R. A., Romond, K., Millet, D., Holz, F. G., Schmitz-Valckenberg, S., Fleckenstein, M., Lim, J. I., de Sisternes, L., Leng, T., Rubin, D. L., Hallak, et al
  2021; 10 (7): 30
- **AAO IRIS Registry data replicates VIEW 1 and VIEW 2 clinical trial outcome data**
  Leng, T., Xu, J., Kras, A., Wood, K., Doriswami, R., Shadra, C., Torres, A., Li, C., Lum, F.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **A Multi-Task Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multi-Center Analysis**
  Cheung, C., Tang, F., Ran, A., Tan, G., Ting, D. W., Chen, H., Ma, H., Tang, S., Leng, T., Kakavand, S., Mannil, S. S., Chang, R., Liew, et al
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Extending interoperability in ophthalmology through Fast Healthcare Interoperability Resource (FHIR)**
  Kras, A., Oliver, W., Gillies, M. C., Mair, M., Chu, S., Morlet, N., Mbagwu, M., Hwang, T. S., Roe, M., Leng, T.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Large Scale Cross-Vendor Linkage of Ophthalmic Imaging and American Academy of Ophthalmology IRIS (R) Registry Clinical Data**
  Mbagwu, M., Leng, T., Luthra, A., Borkar, D., Kras, A.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2021
- **Visual acuity and progression of macular atrophy in patients receiving intravitreal anti-VEGF for age-related macular degeneration.** *European journal of ophthalmology*

Ji, M. H., Callaway, N. F., Ludwig, C. A., Vail, D., Al-Moujahed, A., Rosenblatt, T. R., Leng, T., Sanislo, S. R., Moshfeghi, D. M.
2021: 11206721211001708

- **Management of repository corticotropin injection therapy for non-infectious uveitis: a Delphi study** *ACTA OPHTHALMOLOGICA*
  Nguyen, Q., Anesi, S. D., Chexal, S., Chu, D. S., Dayani, P. N., Leng, T., Meleth, A. D., Sallam, A. A., Sheppard, J. D., Silverstein, S. M., Toyos, M., Wang, R. C., Foster, et al
  2021

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