

# CURRICULUM VITAE

*HERNANDO ZEGARRA, MD*

## OFFICE ADDRESSES

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17534 Royalton Road, Suite 201; Strongsville, Ohio 44136  
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## TELEPHONE

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## WEBSITE

[www.retina-doctors.com](http://www.retina-doctors.com)

## EDUCATION

*Medical School* Cayetano Heredia University  
Lima, Peru  
1968, MD

## POSTGRADUATE TRAINING

*Internship* Loayza Hospital  
*(Peru)* Lima, Peru  
April 1967 to March 1968

*Residency* Ophthalmology  
*(Peru)* Cayetano Heredia University  
Lima, Peru  
April 1968 to March 1969

*Internship* Rotating internship  
*(United States)* Grasslands Hospital (now Westchester Medical Center)  
Valhalla, New York  
July 1969 to June 1970

<i>Fellowship</i>	Retinal fluorescein angiography Cleveland Clinic Foundation, Department of Ophthalmology Cleveland, Ohio July 1970 to June 1971
<i>Residency</i> <i>(United States)</i>	Ophthalmology Cleveland Clinic Foundation, Department of Ophthalmology Cleveland, Ohio July 1971 to June 1974
<i>Fellowship</i>	Ophthalmic and Retinal Diseases and Surgery Devers Eye Clinic of Good Samaritan Hospital Portland, Oregon July 1974 to September 1975

## LICENSURE AND BOARD CERTIFICATION

Licensed to practice medicine in Ohio

Diplomate, American Board of Ophthalmology, 1977

## PROFESSIONAL POSITIONS

Retina Associates of Cleveland, 1989–

Practice limited to retinal diseases and surgery. Associates: Lawrence J. Singerman, MD; Michael A. Novak, MD; Z. Nicholas Zakov, MD; Scott D. Pendergast, MD; David G. Miller, MD; Joseph M. Coney, MD; Jerome P. Schartman, MD; Llewelyn J. Rao, MD; Arnold F. Nothnagel, DO; Shawn A. Lewis, MD; Sean M. Platt, MD

Director, Electrophysiology and Fluorescein Angiography Laboratories, October 1975 to December 1988

Cleveland Clinic Foundation, Department of Ophthalmology, Retina Service  
Cleveland, Ohio

## HONORS AND AWARDS

Charter Member, Retina Hall of Fame, 2017

*Best Doctors in America*, 2009-2018

## MEMBERSHIPS

American Academy of Ophthalmology  
American Medical Association  
American Society of Retinal Specialists (formerly the Vitreous Society)  
Association for Research in Vision and Ophthalmology

Cleveland Academy of Medicine  
Cleveland Ophthalmological Society  
Colombian Ophthalmology Society (Honorary Member)  
Diabetes Association of Greater Cleveland  
Latin American Group on Ocular Angiography and Photocoagulation  
Ohio State Medical Association  
Pan-American Ophthalmological Society  
Peruvian Ophthalmological Society  
Peruvian-American Medical Society  
Retina Society

## HOSPITAL AFFILIATIONS

Hillcrest Hospital; Cleveland, Ohio  
Summa Health; Akron, Ohio

## RESEARCH ACTIVITIES

### *NIH-funded Grants*

*Home vision monitoring in AREDS2 for progression to neovascular age-related macular degeneration*

Co-investigator, 2011–2013

*Comparison of age-related macular degeneration treatments trials: Lucentis-Avastin trial (CATT)*

Co-investigator, 2008–2012

*Age-Related Eye Disease Study 2 (AREDS2)*

Co-investigator, 2006–2012

*Standard Care vs. Corticosteroid for Retinal Vein Occlusion (SCORE) Study*

Co-investigator, 2004–2009

*Complications of Age-related Macular Degeneration Prevention Trial (CAPT)*

Co-investigator, 1999–2006

*Epidemiology of Diabetes Interventions and Complications Trial (EDIC), National Institutes of Health Grant*

Co-investigator, 1994–

*Central Vein Occlusion Study (CVOS) Electrophysiology Ancillary Study*

Principal investigator, 1990–1992

*Endophthalmitis Vitrectomy Study*

Co-investigator, 1989–1994

*Macular Photocoagulation Studies*

Co-investigator, 1989–1993

*Central Vein Occlusion Study*

Co-investigator, 1988–1993

*Collaborative Ocular Melanoma Study*

Co-investigator, 1987–2003

***Other National Clinical Trials***

*Randomized, double masked, uncontrolled, multicenter phase I/II study to evaluate safety and tolerability of PAN-90806 eye drops, suspension in treatment-naïve participants with neovascular age-related macular degeneration (AMD)*

Co-investigator, 2018–

*Phase III, multicenter, randomized, double-masked, active comparator-controlled study to evaluate the efficacy and safety of RO6867461 in patients with diabetic macular edema (YOSEMITE)*

Co-investigator, 2018–

*Two-year, three-arm, randomized, double-masked, multicenter, phase iii study assessing the efficacy and safety of brolicizumab versus aflibercept in adult patients with visual impairment due to diabetic macular edema (KESTREL)*

Co-investigator, 2018–

*Phase 2b randomized, double-masked, controlled trial to assess the safety and efficacy of intravitreal administration of Zimura™ (anti-c5 aptamer) in subjects with geographic atrophy secondary to dry age-related macular degeneration*

Co-investigator, 2018–

*Phase 2 double-masked, placebo-controlled study to assess the safety and efficacy of subcutaneously administered AKB-9778 15 mg once daily or 15 mg twice daily for 12 months in patients with moderate to severe non-proliferative diabetic retinopathy (TIME-2b study)*

Co-investigator, 2017–

*Effect of LY3202626 on Alzheimer's disease progression as measured by cerebral <sup>18</sup>F-AV-1451 Tau-PET in mild Alzheimer's disease dementia*

Co-investigator, 2017–

*Phase III multicenter randomized, sham controlled, study to determine the safety and efficacy of Renexus® in macular telangiectasia type 2 (NTMT-03-A)*

Co-investigator, 2017–

*Efficacy and safety study of squalamine ophthalmic solution in subjects with neovascular AMD (MAKO)*

Co-investigator, 2016–

*Phase II, multicenter, randomized, single-masked, sham-controlled study of safety, tolerability and evidence of activity of intravitreal APL-2 therapy in patients with geographic atrophy (GA)*

Co-investigator, 2015–2018

*Phase III double masked study of safety and efficacy of abicipar pegol in patients with neovascular age-related macular degeneration*

Co-investigator, 2015–

*Randomized, double-masked, multicenter, three-arm study comparing the efficacy and safety of RTH258 versus aflibercept in subjects with neovascular age-related macular degeneration*

Co-investigator, 2015–2018

*Phase III, multicenter, randomized, double-masked, sham-controlled study to assess the efficacy and safety of lampalizumab administered intravitreally to patients with geographic atrophy secondary to age-related macular degeneration (PROXIMA)*

Co-investigator, 2015–2018

*An 18-month Phase 2a open label, randomized study of Avastin, Lucentis, or Eylea (anti-VEGF therapy) administered in combination with Fovista (anti-PDGF BB pegylated aptamer)*

Co-investigator, 2015–2017

*A study of lampalizumab intravitreal injections administered every two weeks or every four weeks to patients with geographic atrophy (EXPOSURE)*

Co-investigator, 2015–2017

*Phase 3, randomized, double-masked, controlled trial to establish the safety and efficacy of intravitreal administration of Fovista (anti PDGF-B pegylated aptamer) administered in combination with either Avastin or Eylea compared to Avastin or Eylea monotherapy in subjects with subfoveal neovascular age-related macular degeneration*

Co-investigator, 2015–2017

*LHA510 proof-of-concept study as a maintenance therapy for patients with wet age-related macular degeneration*

Co-investigator, 2015–2016

*A study investigating the efficacy and safety of lampalizumab intravitreal injections in patients with geographic atrophy secondary to age-related macular degeneration (CHROMA)*

Co-investigator, 2014–2018

*Phase 2, multi-center study to compare the efficacy and safety of a chemokine CCR2/5 receptor antagonist with ranibizumab in adults with diabetic macular edema*

Co-investigator, 2014–2016

*Phase 3, randomized, double-masked, controlled trial to establish the safety and efficacy of intravitreal administration of Fovista (anti PDGF-B pegylated aptamer) administered in combination with Lucentis compared to Lucentis monotherapy in subjects with subfoveal neovascular age-related macular degeneration*

Co-investigator, 2013–2017

*Phase 2b/3 multicenter, randomized, double-masked, dose-ranging study comparing the efficacy and safety of emixustat hydrochloride (ACU-4429) with placebo for the treatment of geographic atrophy associated with dry age-related macular degeneration (SEATTLE)*

Co-investigator, 2013–2016

*Prospective, randomized, double-masked, multicenter, two arm study comparing the efficacy and safety of ESBA1008 versus Eylea® in subjects with exudative age-related macular degeneration*

Co-investigator, 2013–2014

*Prospective, two-cohort, single-masked study to evaluate the effect of ESBA1008 applied by microvolume injection or infusion in subjects with exudative age-related macular degeneration*

Co-investigator, 2013

*A multicenter, randomized, sham-control, proof-of-concept study of intravitreal LFG316 in patients with geographic atrophy associated with age-related macular degeneration*

Co-investigator, 2012–2015

*Safety and efficacy study of gevokizumab to treat active non-infectious uveitis (EYEGUARD™-A)*

Co-investigator, 2012–2015

*Safety and efficacy study of gevokizumab to treat non-infectious uveitis controlled with systemic treatment (EYEGUARD™-C)*

Co-investigator, 2012–2015

*Efficacy and safety of squalamine lactate eye drops in subjects with neovascular (wet) age-related macular degeneration*

Co-investigator, 2012–2015

*Ocriplasmin for treatment for symptomatic vitreomacular adhesion including macular hole (OASIS)*

Co-investigator, 2012–2014

*Safety and tolerability of intravenous LFG316 in wet age-related macular degeneration*

Co-investigator, 2012–2013

*Single and repeat dose study of the safety and efficacy of AGN-150998 in patients with exudative age-related macular degeneration*

Co-investigator, 2012

*Phase 1 multicenter open-label safety and tolerability clinical trial of ciliary neurotrophic factor (CNTF) in patients with macular telangiectasia Type 2 (Mactel)*

Co-investigator, 2011–2016

*A study of safety, tolerability, and evidence of activity of FCFD4514S administered monthly or every other month to patients with geographic atrophy*

Co-investigator, 2011–2013

*Multicenter, 2 stage (open label, dose escalation, followed by masked, randomized) single dose study of the safety and efficacy of AGN-208397 in patients with macular edema (ME) associated with retinal vein occlusion (RVO)*

Co-investigator, 2011–2012

*Phase 2b dose-ranging study of pazopanib eye drops versus ranibizumab intravitreal injections for the treatment of neovascular age-related macular degeneration*

Co-investigator, 2010–2011

*Phase 2, randomized, double-masked, controlled trial to establish the safety and efficacy of intravitreal injections of E10030 (anti-PDGF pegylated aptamer) given in combination with Lucentis® in subjects with neovascular age-related macular degeneration*

Co-investigator, 2010–2011

*Impact of Lucentis on psychological morbidity in patients with macular edema and neovascularization secondary to retinal vein occlusion*

Co-investigator, 2009–2012

*Geographic Atrophy Treatment Evaluation (GATE) Study*

Co-investigator, 2009–2012

*Phase II, randomized, double-masked, placebo- controlled, add-on study to assess the efficacy of oral aliskiren 300 mg one daily for diabetic macular edema*

Co-investigator, 2009–2010

*Phase 1, single ascending dose and parallel group trial to establish the safety, tolerability, and pharmacokinetic profile of multiple intravitreal injections of Volociximab ( $\alpha 5\beta 1$  integrin antagonist) as monotherapy or given in combination with Lucentis 0.5mg/eye in subjects with neovascular AMD (Ophthotech 3000)*

Co-investigator, 2008–2011

*Phase 2, randomized, double-masked, placebo-controlled, dose-ranging clinical study to assess the safety and efficacy of subconjunctival injections of sirolimus in patients with diabetic macular edema secondary to diabetic retinopathy*

Co-investigator, 2008–2010

*Natural History of Geographic Atrophy Progression (GAP) Study*

Co-investigator, 2008–2009

*A study of ranibizumab injection in subjects with clinically significant with macular edema center involvement secondary to diabetes mellitus (RIDE)*

Co-investigator, 2007–2012

*Phase II randomized, double-masked, placebo-controlled, dose-comparison study of the safety and efficacy of fenretinide in the treatment of geographic atrophy in age-related macular degeneration (Sirion Therapeutics)*

Co-investigator, 2007–2010

*A multicenter, randomized, placebo-controlled, double-masked, parallel group, dose-ranging clinical trial of intravitreal microplasmin in patients undergoing surgical vitrectomy: The MIVI III (Microplasmin for Vitreous Injection III) Trial*

Co-investigator, 2007–2009

*A masked, multicenter, randomized, controlled trial to assess the safety and efficacy of 700 µg dexamethasone posterior segment drug delivery system (DEX PS DDS) applicator system in combination with laser photocoagulation compared with laser photocoagulation alone in the treatment of subjects with diffuse diabetic macular edema*

Co-investigator, 2007–2009

*Age-related Macular Degeneration: Detection of Onset of new Choroidal neovascularization (AMD DOC) study comparing preferential hyperacuity perimetry (PHP) with supervised Amsler grid in detecting AMD for earlier treatment in high-risk fellow eyes (Johns Hopkins)*

Co-investigator, 2007–2009

*OMEGA: A randomized, double-masked, dose-ranging, multi-center, phase II study comparing the safety and efficacy of OT-551 with placebo to treat geographic atrophy associated with age-related macular degeneration*

Co-investigator, 2007–2009

*COBALT: COmbining Bevasiranib And Lucentis Therapy. A phase III, randomized, double-masked, parallel-assignment study of intravitreal bevasiranib sodium, administered every 8 or 12 weeks as maintenance therapy following three injections of Lucentis®, compared with Lucentis® monotherapy every 4 weeks in patients with exudative age-related macular degeneration (AMD)*

Co-investigator, 2007–2008

*Small Interfering RNA In Macular Degeneration Study (SIRIUS): A 2 year, multicenter, randomized, controlled, masked, dose-finding trial to assess the safety and efficacy of multiple intravitreal injections of AGN211745 in subjects with subfoveal choroidal neovascularization secondary to age-related macular degeneration*

Co-investigator, 2007–2008

*Phase 1, single ascending dose trial to establish the safety, tolerability, and pharmacokinetic profile of intravitreal injections of E10030 (anti-PDGF pegylated aptamer) monotherapy and of E10030 given in combination with Lucentis 0.3mg/eye in subjects with neovascular AMD*

Co-investigator, 2007



*Natural history study of macular telangiectasia (MacTel)*

Co-investigator, 2005–

*A 6-month, Phase III, multicenter, masked, randomized, sham-controlled trial (with 6-month open-label extension) to assess the safety and efficacy of 700 µg and 350 µg dexamethasone posterior segment drug delivery system (DEX PS DDS) applicator system in the treatment of patients with macular edema following branch retinal vein occlusion or central retinal vein occlusion*

Co-investigator, 2005–2007

*A 3-year, Phase III, multicenter, masked, randomized, sham-controlled trial to assess the safety and efficacy of 700 µg and 350 µg dexamethasone posterior segment drug delivery system (DEX PS DDS) applicator system in the treatment of patients with diabetic macular edema.*

Co-investigator, 2005–2007

*RNAi Assessment of Cand5 in Diabetic Macular Edema (RACE)*

Co-investigator, 2005–2007

*An open label study for the evaluation of tolerability of four dose levels of Cand5 administered by single intravitreal injection in patients with wet age-related macular degeneration*

Co-investigator, 2005–2007

*Cand5 Anti-VEGF RNAi Evaluation (CARE): Dose comparison of Cand5 for subfoveal choroidal neovascularization associated with wet age-related macular degeneration.*

Co-investigator, 2005–2007

*A Phase II, dose ranging, open-labeled, multi-center study to evaluate the safety and efficacy of combretastatin A4 phosphate for treating subfoveal choroidal neovascularization in subjects with pathologic myopia*

Co-investigator, 2005–2006

*Protocol A43221001: A Phase I / 2 randomized, masked, placebo-controlled, single and multiple-dose, sequential dose escalation study of the safety and efficacy of AG-013958 in subjects with subfoveal choroidal neovascularization associated with age-related macular degeneration*

Co-investigator, 2004–2006

*A randomized, double-masked, placebo-controlled, parallel group, multicenter, dose-ranging study of denufosol tetrasodium (INS37217) intravitreal injection in subjects with rhegmatogenous retinal detachment*

Co-investigator, 2004–2005

*Ranibizumab (Lucentis) treatment in subjects with neovascular age-related macular degeneration (multiple studies)*

Co-investigator, 2003–2007

*The Implantable Miniature Telescope (IMT™) in patients with central vision impairment associated with age-related macular degeneration or Stargardt's macular dystrophy*

Co-investigator, 2003–2005

*Pegaptanib sodium (Macugen) in patients with exudative age-related macular degeneration (multiple studies)*

Co-investigator, 2001–2010

*Oculex Study: A Phase 2 randomized, multicenter, dose-ranging, controlled, parallel-group trial to assess the safety and effectiveness of dexamethasone posterior segment drug delivery system (DEX PS DDS®) in the treatment of persistent macular edema*

Co-investigator, 1999–2008

*Evaluation of anecortave acetate in patients with exudative age-related macular degeneration (multiple studies)*

Co-investigator, 1999–2008

*Protein Kinase C  $\beta$  inhibitor ruboxistaurin treatment for diabetic macular edema study and diabetic retinopathy (multiple studies)*

Co-investigator, 1998–2010

*Visudyne photodynamic therapy treatment of neovascular age-related macular degeneration (multiple studies)*

Co-investigator, 1997–2006

#### **SELECTED PRESENTATIONS AT LOCAL, NATIONAL, AND INTERNATIONAL MEETINGS AND SYMPOSIA**

1. Treatments for retinitis pigmentosa. Optometric Retinal Update Seminar. Cleveland, Ohio, June 7, 2018
2. Non-organic visual loss. Optometric Retinal Update Seminar. Beachwood, Ohio, March 28, 2017.
3. The clinical and prognostic value of retinal images. Optometric Retinal Update Seminar. Cleveland, Ohio, June 16, 2016.
4. The clinical and prognostic value of retinal images. Featured Speaker, III International Congress of Retina and Vitreous. Lima, Peru, February 18-20, 2016.
5. Chronic conjunctivitis and choroidal folds. Optometric Retinal Update Seminar. Warren, Ohio, September 1, 2015.
6. Bilateral conjunctivitis and choroidal folds. Optometric Retinal Update Seminar. Cleveland, Ohio, June 18, 2015.

7. Retinal cases. Cleveland Clinic North Coast Retina Symposium. Cleveland, Ohio, May 15, 2015.
8. Screening for Plaquenil toxicity: the value of autofluorescence. Optometric Retinal Update Seminar. Warren, Ohio, September 16, 2014.
9. Retinal cases. Cleveland Clinic North Coast Retina Symposium. Cleveland, Ohio, May 30, 2014.
10. The progression of chloroquine and hydroxychloroquine retinal toxicity: the value of imaging. Cleveland Ophthalmological Society. Cleveland, Ohio, October 15, 2013.
11. Eylea for chronic pigment epithelial detachments (ARMD). Optometric Retinal Update Seminar. Youngstown, Ohio, September 10, 2013.
12. Retinal cases. Cleveland Clinic North Coast Retina Symposium. Cleveland, Ohio, May 22, 2013.
13. Retinal update on anti-VEGF therapy (with Drs. Coney, Miller, Novak, Schartman, and Zegarra). Ophthalmologists' Update Seminar. Vermilion, Ohio, December 20, 2012.
14. Eylea for chronic pigment epithelial detachments (ARMD). Ophthalmologists' Update Seminar. Vermilion, Ohio, August 2012.
15. 1) Co-moderator, Central serous chorioretinopathy symposium; 2) Speaker, Management of central serous chorioretinopathy. Pan-American Retina-Vitreous Society Congress and 14th GLADAOF (Grupo Latinoamericano de Angiografía y Fotocoagulación) Forum. San Jose, Costa Rica, May 18, 2012
16. The value of OCT, autofluorescence photography, and multifocal ERG in chloroquine retinopathy. Optometric Retinal Update Seminar. Beachwood, Ohio, March 15, 2012.
17. Chloroquine retinopathy. Cleveland Ophthalmological Society. Cleveland, Ohio, October 11, 2011.
18. Retinopatía tóxica por cloroquina e hidroxycloquina (Chloroquine retinopathy). Fiftieth Anniversary of the Cayetano Heredia University Medical School. Lima, Peru, September 2011.
19. Chronic central serous choroidopathy. Optometric Retinal Update Seminar. Youngstown, Ohio, September 1, 2011.
20. Eighteen years of recurrent central serous choroidopathy. North Coast Retina Symposium. Cole Eye Institute, Cleveland Clinic Foundation, May 13, 2011.
21. Co-moderator, Medical Retina Symposium. Speaker, 1) Long-term therapy of central retinal vein occlusion with anti-VEGF agents; 2) Photodynamic therapy in the treatment

- of central serous choroidopathy. Croatian Ophthalmological Society. Zagreb, Croatia, October 2010.
22. Long-term therapy of central retinal vein occlusion with anti-VEGF agents. Cleveland Ophthalmological Society. Cleveland, Ohio, October 12, 2010.
  23. Unilateral progressive hyperopia. Optometric Retinal Update Seminar. Beachwood, Ohio, March 25, 2010.
  24. Chloroquine retinopathy. Optometric Retinal Update. Westlake, Ohio, June 18, 2009.
  25. Anti-VEGF therapy for central retinal vein occlusion. Retinal Update for Ophthalmologists. Beachwood, Ohio. May 13, 2009.
  26. Anti-VEGF therapy for central retinal vein occlusion. Retinal Update for Ophthalmologists. Youngstown, Ohio. March 18, 2009.
  27. Retinal imaging (with DG Miller). Optometric Continuing Education Program and Open House. Lorain, Ohio. January 13, 2009.
  28. Anti-VEGF therapy for central retinal vein occlusion. Retinal Update for Ophthalmologists. Youngstown, Ohio. November 20, 2008.
  29. Central retinal vein occlusion: evolution in the diagnosis, management, and treatment. Optometric Retinal Update. Youngstown, Ohio. September 18, 2008.
  30. Photodynamic therapy with Visudyne in the treatment of central serous retinopathy. Optometric Retinal Update. Westlake, Ohio, July 15, 2008.
  31. Central serous choroidopathy: current management and new therapies. Optometric Retinal Update. Beachwood, Ohio. February 21, 2008.
  32. Anti-VEGF agents in retinal disorders. Optometric Retinal Update. Westlake, Ohio. July 17, 2007.
  33. The role of anti-VEGF agents in retinal disorders. Optometric Retinal Update. Mentor, Ohio. October 25, 2006.
  34. Current management of retinal vein occlusion. Optometric Retinal Update. Youngstown, Ohio. September 25, 2006.
  35. Current management of retinal vein occlusion. Optometric Retinal Update. Westlake, Ohio. August 9, 2006.
  36. Newest information, research, and treatments for macular degeneration. Seminar on Nutrition and Macular Degeneration (joint presentation of Retina Associates of Cleveland and Macula Vision Research Foundation SupportSight). Middleburg Heights, Ohio. October 29, 2005.

37. Case review: retinal vascular and macular degenerative diseases. Optometric Retinal Update. Westlake, Ohio. August 11, 2005.
38. Pigmented fundus lesions. Optometric Retinal Update. Westlake, Ohio. July 29, 2004.
39. Unilateral retinitis pigmentosa. Optometric Retinal Update. Beachwood, Ohio. February 19, 2004.
40. Retinal case presentations and management. Optometric Continuing Medical Education. Vermilion, Ohio. December 11, 2003.
41. Unilateral retinitis pigmentosa. Optometric Retinal Update. Westlake, Ohio. August 12, 2003.
42. 1) Manejo practico de la enfermedad retinal vascular. 2) Tratamiento de la neovascularizacion coroidea con terapia fotodinamica combinada con otros modalidades terapeuticas. National Congress of Ophthalmology. Lima, Peru. July 2–6, 2002.
43. Management and prevention of retinal vascular disease. Optometric Retinal Update. Youngstown, Ohio. August 29, 2001.
44. Photodynamic therapy. Pan American Congress of Ophthalmology. Llao Llao, Argentina. July 23, 2001.
45. Management and prevention of retinal vascular disease. Ohio Optometric Association Zone 2 meeting. June 13, 2001.
46. 1) What's new in vitreoretinal diseases and surgery (Panelist). 2) Branch and central vein occlusion workshop (Instructor). 3) Manejo Práctico Actualizado de la Retina Diabética (Instructor). 4) Enfermedad Macular Tratable (Instructor). American Academy of Ophthalmology and the Pan-American Association of Ophthalmology. Orlando, Florida. October 24–27, 1999.
47. What's new in vitreoretinal diseases and surgery (Panelist). American Academy of Ophthalmology and the Pan-American Association of Ophthalmology. New Orleans, Louisiana. November 1998
48. What's new in vitreoretinal diseases and surgery (Panelist). American Academy of Ophthalmology and the Pan-American Association of Ophthalmology. San Francisco, California. October 1994.
49. Symposium on indocyanine green angiography. Latin American Group of Angiography and Laser Photocoagulation. Santiago, Chile. October 1994.
50. 1) Symposium in retinal diseases. 2) Conference on retinitis pigmentosa and vitamin A. Fifteenth Peruvian Symposium of Ophthalmology. Lima, Peru. September 1994.

51. Edema and retinal ischemia and retinal vascular occlusions. The Nineteenth Pan-American Congress of Ophthalmology. Caracas, Venezuela; July 1993.
52. 1) Treatment of subfoveal choroidal neovascularization. 2) Pneumatic retinopexy. 3) Current indications and management of retinal vein occlusion. The Northwest Mexican Ophthalmology Society Annual Meeting. Tucson, Arizona; May 1993.
53. 1) What's new in vitreoretinal diseases (Panelist). 2) Branch and central vein occlusion workshop (Instructor). 3) Discussant of two papers on choroidal neovascularization. American Academy of Ophthalmology Annual Meeting. Dallas, Texas. November 8–12, 1992.
54. Evaluation of retinal ischemia: clinical, angiographic, and electrophysiological findings; Review of interesting fluorescein cases (coordinator). Latin American Group for Fluorescein Angiography and Laser. Cancun, Mexico. July 16–18, 1992.
55. Acquired retinopathies simulating retinal dystrophies. Cleveland Ophthalmological Society. April 14, 1992.
56. Ophthalmological Workshop. Ohio Academy of Family Physicians. January 11, 1992.
57. What's new in vitreoretinal diseases (in Spanish). Senior Instructor, American Academy of Ophthalmology Annual Meeting. Anaheim, California. October 13–17, 1991.
58. Alternative techniques to scleral buckling surgery. Case Western Reserve University Grand Rounds. Cleveland, Ohio. December 6, 1989.
59. Reoperations following pneumatic retinopexy (Ambler J, Meyers S, Zegarra H). American Academy of Ophthalmology Annual Meeting. New Orleans, Louisiana. October 29–November 2, 1989.
60. 1) Pneumatic retinopexy, technique, indications, and limitations. 2) Management of retinal branch vein occlusion. 3) Clinical applications of dye laser. 4) Ischemia in central retinal vein occlusion. 5) Management of retinoschisis complicated with retinal detachment. Guest lecturer, Decentro Oftalmologico Campinas. October 20–21, 1989.
61. Update on pneumatic retinopexy experience at the Cleveland Clinic. Pneumatic Retinopexy Symposium. Tampa, Florida. October 6–7, 1989.
62. 1) Update on laser photocoagulation for retinal vein occlusion. 2) Current status of retinal venous occlusive disease (central retinal vein occlusion). 3) Acute maculopathies. 4) Management of proliferative diabetic retinopathy. 5) Free paper: Failure and reoperation following pneumatic retinopexy. Pan-American Ophthalmological Society Meeting. Rio de Janeiro, Brazil. September 3–6, 1989.
63. Current indications and limitations of pneumatic retinopexy. Ohio Ophthalmological Society Meeting. Cleveland, Ohio. June 2–4, 1989.

64. Pneumatic retinopexy for retinal redetachments after buckling surgery (Zegarra H, Parker C, Meyers S). Aegean Retina. Crete, Greece. July 10–14, 1989.
65. Chronic macular detachment following otherwise successful pneumatic retinopexy (Ambler JS, Zegarra H, Meyers SM). Combined Meeting of the Retina Society and Macula Society. Boston, Massachusetts. June 21–24, 1989.
66. Clinical applications of electrophysiology. Grand Rounds St. Luke's Hospital. Cleveland, Ohio. February 3, 1989.
67. 1) Overview of macular degeneration. 2) An alternative technique to scleral buckling surgery: pneumatic retinopexy. Update on Vitreoretinal Disease. Christ Hospital. September 10, 1988.
68. Reoperation following pneumatic retinopexy. 2) CCF experience with pneumatic retinopexy. Pneumatic Retinopexy Symposium. San Diego, California. August 5–6, 1988.
69. Acute bilateral maculopathies. 2) Coordinator, Round Table on retinal vascular disease. 3) Retinal vascular disease: current therapy. Latin American Group of Angiography and Photocoagulation. Caracas, Venezuela. June 19–25, 1988.
70. A new approach for the repair of retinal detachment associated with retinoschisis. The Retina Society Meeting. Philadelphia, Pennsylvania. June 16–18, 1988.
71. 1) Complications of CRNVM treatment. 2) Laser photocoagulation for retinal tears and lattice degeneration. 3) Macular edema secondary to CRVO. Retina Research and Development Foundation Mid-Winter Course and Fluorescein Angiography Workshop. St. Louis, Missouri. February 5–6, 1988.
72. 1) Persistent macular detachment after pneumatic retinopexy. 2) Simultaneous gas-fluid exchange in nonvitrectomized eyes. Vitreous Society Meeting. St. Thomas, Virgin Islands. December 2–6, 1987.
73. Comparison of pneumatic retinopexy with alternative surgical techniques. American Academy of Ophthalmology Annual Meeting. Dallas, Texas. November 8–12, 1987.
74. Retinal venous occlusive disease — current management and treatment. Pam American Association of Ophthalmology. Santo Domingo, Dominican Republic. April 5–7, 1987.
75. Cataract surgery and intraocular lenses in diabetic patients. Vitreous Society Meeting. Palm Springs, California. December 3–6, 1986.
76. New techniques for retinal detachments. Peruvian Congress of Ophthalmology. Lima, Peru. November 2–7, 1986.
77. Retinal angiography: basic interpretation and current use of lasers in the treatment of eye disorders. Ohio Optometric Association. Huron, Ohio. October 8–9, 1986.

78. Temporary closure of retinal breaks — new approach for retinal detachment repair. Dedicatory Symposium, Department of Ophthalmology, Cleveland Clinic Foundation. Cleveland, Ohio. June 14, 1986.
79. Treatment of macular edema secondary to partial central retinal vein occlusion. Ohio Ophthalmological Society. Columbus, Ohio June 7–8, 1986.
80. Temporary closure of retinal breaks. Hilton Rocha Institute Meeting. Belo Horizonte, Brazil. April 20–21, 1986.
81. Dye lasers — use of dye lasers in ophthalmology: management of neovascularization secondary to intraocular inflammation. Latin American Group of Angiography and Photocoagulation. Belo Horizonte, Brazil. Angiography Workshop (organizer). April 18–19, 1986.
82. Common retinal disorders: recognition and management. Primary Care Conference, Cleveland Clinic Foundation. Cleveland, Ohio. February 25, 1986.
83. Ophthalmic dye lasers: A. Applications of retinal clinical trials. B. The use of different wavelengths. Joint Ophthalmology Conference of Case Western Reserve University School of Medicine and Cleveland Clinic Foundation. Cleveland, Ohio. February 15, 1986.
84. Retinal manifestations of carotid occlusive disease. Peripheral Vascular Disease Conference, Cleveland Clinic Foundation. Cleveland, Ohio. January 29, 1986.
85. Vascular occlusive disease. Erie County Medical Center case presentation. Buffalo, New York. October 17, 1985.
86. Management of retinal vascular occlusion. Buffalo Ophthalmological Society. Buffalo, New York. October 17, 1985.
87. The management of retinal venous occlusive disease. Postgraduate course, American Academy of Ophthalmology. San Francisco, California. October 3, 1985.
88. Retinal vascular diseases. Postgraduate course, XV Pan-American Congress of Ophthalmology. New Orleans, Louisiana. April 21, 1985.
89. The use of the Lincoff balloon in retinal detachment surgery. Cleveland Ophthalmological Society. Cleveland, Ohio. April 9, 1985.
90. Complications in ophthalmology: complications of intraocular lenses in diabetic patients. Postgraduate course, Cleveland Clinic Foundation. Cleveland, Ohio. November 30 to December 1, 1984.
91. 1) Evaluation of retinal ischemia by fluorescein angiography. 2) Round table on diabetic retinopathy (coordinator). 3) Intraocular lenses in diabetic patients. Latin-



- American Forum — Angiography and Photocoagulation. Buenos Aires, Argentina. October 24–26, 1984.
92. Intraocular lenses on diabetic patients. Retina Society Annual Meeting. Detroit, Michigan. September 13–16, 1984.
  93. Symposium on diabetic retinopathy. Lima, Peru. July 6, 1984.
  94. Photocoagulation of intraocular tumors. International Congress on Intraocular Tumors. Lima, Peru. July 6, 1984.
  95. Lasers in ophthalmology. Peruvian-American Medical Society. Arequipa, Peru. July 2–5, 1984.
  96. First Congress, Aristides de Athayde Eye Foundation, Ophthalmology 1984. Curitiba, Parana, Brazil. June 20–23, 1984.
  97. Preretinal neovascularization secondary to intraocular inflammation. Cleveland Ophthalmological Society. Cleveland, Ohio. May 2, 1984.
  98. Role of photocoagulation in retinal venous occlusions. Lasers in ophthalmology, postgraduate course. Cleveland Clinic Foundation. Cleveland, Ohio. December 2–3, 1983.
  99. 1) Clinicophysiological evaluation of visual dysfunction. 2) Current concepts in venous occlusive disease. 3) Round table on photocoagulation. Venezuelan National Congress of Ophthalmology. Barquisimeto, Venezuela. November 20–24, 1983.
  100. 1) New concepts in the diagnosis and treatment of retinal venous occlusive disease. 2) Round table on different modalities of laser therapy. XII Argentinean National Congress of Ophthalmology. Buenos Aires, Argentina. September 18–23, 1983.
  101. Decreased vision: diagnosis for the non-ophthalmologist. Peruvian-American Medical Society. San Francisco, California. September 13–17, 1983.
  102. 1) Retinal vein occlusion. 2) Management of the diabetic patient. 3) Course on macular diseases. XIV Pan-American Congress of Ophthalmology. Lima, Peru. July 3–8, 1983.
  103. A practical course in laser eye surgery: venous occlusive disease. St. Francis General Hospital. Pittsburgh, Pennsylvania. June 4, 1983.
  104. Improvement in retinal circulation after extracranial-intracranial bypass surgery for carotid occlusive disease. Association for Research in Vision and Ophthalmology Annual Meeting. Sarasota, Florida. May 1–5, 1983.
  105. Management of central retinal vein occlusion. Cleveland Ophthalmological Society. Cleveland, Ohio. April 12, 1983.

106. 1) The role of laser therapy in the management of diabetic retinopathy. 2) Ocular manifestations of diabetes. Cleveland Clinic Foundation Diabetes Update Course. Cleveland, Ohio. October 27–28, 1982.
107. 1) Fluorescein angiography in diabetic retinopathy. 2) Branch vein occlusion, natural history and management. 3) Central retinal vein occlusion, types and management. Peruvian-American Medical Society. Lima, Peru. July 5–9, 1982.
108. Fluorescein angiography in neuro-ophthalmology. Latin-American Course and Symposium of Neuro-Ophthalmology. Lima, Peru. December 6–11, 1981.
109. Fluorescein angiography and laser photocoagulation. Guest of Honor, Fundacion Oftalmologica Nacional of Bogota, Colombia. Bogota, Colombia. December 4–6, 1981.
110. Symposium on Complications of Diabetes mellitus. Peruvian-American Medical Society. Bal Harbour, Florida. November 24–28, 1981.
111. Common retinopathies. Veterans Administration Hospital. Brecksville, Ohio. June 19, 1981.
112. Partial central retinal vein occlusion. Association for Research in Vision and Ophthalmology. Sarasota, Florida. April 27–May 1, 1981.
113. Retinal detachment: diagnosis and classification. Peruvian-American Medical Society. Spain. November 22–30, 1980.
114. Partial central retinal vein occlusion. 2) Photocoagulation in branch retinal vein occlusion. Retina Society. Philadelphia, Pennsylvania. October 10–11, 1980.
115. Natural course of central retinal vein occlusion. Erie Eye Clinic. Erie, Pennsylvania. April 8–9, 1980.
116. Ocular manifestations of diabetes mellitus. Hospital de la Fuerza Aerea. Lima, Peru. January 10, 1980.
117. 1) Complications of cataract surgery. 2) Retinal detachment. Universidad Federico Villareal. Lima, Peru. January 4, 1980.
118. Ocular manifestations of diabetes mellitus. Hospital de Policia. Lima, Peru. January 4, 1980.
119. Fluorescein angiography in choroidal disease. Peruvian Ophthalmological Society. Lima, Peru. December 28, 1979.
120. 1) Photocoagulation in diabetic retinopathy. 2) Retinal detachment — surgical technique. 3) Round Table on retinal disease — Case Presentation. Peruvian-American Medical Society. Lima, Peru. December 16–22, 1979

121. Retinal photocoagulation. Perspectives in ophthalmology, Cleveland Clinic Foundation. Cleveland, Ohio. December 6–7, 1979.
122. Diabetic retinopathy. Department of Endocrinology, Cleveland Clinic Foundation. Cleveland, Ohio. September 28, 1979.
123. Retinal Vascular Diseases Course. First International Congress of Surgery. Lima, Peru, July 2–5, 1979.
124. Retinal Angiography Course. Ophthalmic Photographers Society, Eastern Regional Fourth Meeting. Erie, Pennsylvania, June 16, 1979.
125. Retinal manifestations of rheumatic disease. Department of Rheumatology, Cleveland Clinic Foundation. Cleveland, Ohio. May 21, 1979.
126. Natural course of central retinal vein occlusion. Pan-American Association of Ophthalmology. Miami, Florida. February 25 to March 2, 1979.
127. Ocular electrophysiology: clinical applications. Perspectives in ophthalmology, Postgraduate course, Cleveland Clinic Foundation. Cleveland, Ohio. December 2, 1978.
128. Natural course of central retinal vein occlusion. Retina Society. Houston, Texas. November 10–11, 1978.
129. Natural course of central retinal vein occlusion. American Academy of Ophthalmology. October 24, 1978.
130. Ocular complications in cardiac surgery. Peruvian-American Medical Society. Sandom, Puerto Rico. August 2, 1978.
131. Leukemic retinopathy. American Medical Association. St. Louis, Missouri. June 21, 1978.
132. Diabetic retinopathy. Department of Endocrinology, Cleveland Clinic Foundation. Cleveland, Ohio. February 17, 1978.
133. Ocular manifestations of diabetes mellitus. Diagnosis and management of common problems in medical practice (Course for general practitioners). Cleveland Clinic Foundation. Cleveland, Ohio. May 5, 1977.
134. Usher Syndrome. Retinitis Pigmentosa Foundation, Cleveland Chapter. September 18, 1977.
135. Ocular vaso-occlusive disease. Department of Medicine, Cleveland Clinic Foundation. Cleveland, Ohio. September 16, 1977.
136. Management of diabetic retinopathy. Perspectives in Ophthalmology, Cleveland Clinic Foundation. Cleveland, Ohio. December 1976.

137. Fluorescein angiography course, Part II (Course Director). Cleveland Clinic Foundation, Cleveland, Ohio. November 3, 1976.
138. Fluorescein angiography course, Part I (Course Director). Cleveland Clinic Foundation. Cleveland, Ohio. April 8, 1976.
139. A perspective on the diagnosis and management of diabetic retinopathy. Endocrinology Postgraduate Course, Cleveland Clinic Foundation. Cleveland, Ohio. February 1976.
140. 1) Basics in fluorescein angiography. 2) Diabetic retinopathy. Cayetano Heredia University. Lima, Peru. March 1976.

## PUBLICATIONS

### *Journal Articles*

1. Chew EY, Clemons TE, Jaffe GJ, Johnson CA, Farsiu S, Lad EM, Guymer R, Rosenfeld P, Hubschman JP, Constable I, Wiley H, Singerman LJ, Gillies M, Comer G, Blodi B, Elliott D, Yan J, Bird A, Friedlander M; Macular Telangiectasia Type 2-Phase 2 CNTF Research Group. Effect of ciliary neurotrophic factor on retinal neurodegeneration in patients with macular telangiectasia type 2: a randomized clinical trial. *Ophthalmology*. 2018 Oct 4. pii: S0161-6420(18)31427-1. doi: 10.1016/j.ophtha.2018.09.041. [Epub ahead of print]
2. Yu JJ, Agrón E, Clemons TE, Domalpally A, van Asten F, Keenan TD, Cukras C, Chew EY; Age-Related Eye Disease Study 2 Research Group. Natural history of drusenoid pigment epithelial detachment associated with age-related macular degeneration: Age-Related Eye Disease Study 2 report no. 17. *Ophthalmology*. 2018 Aug 22. pii: S0161-6420(18)31752-4. doi: 10.1016/j.ophtha.2018.08.017. [Epub ahead of print]
3. Keenan TD, Agrón E, Domalpally A, Clemons TE, van Asten F, Wong WT, Danis RG, Sadda S, Rosenfeld PJ, Klein ML, Ratnapriya R, Swaroop A, Ferris FL 3rd, Chew EY; AREDS2 Research Group. Progression of geographic atrophy in age-related macular degeneration: AREDS2 Report Number 16. *Ophthalmology*. 2018;125:1913-1928.
4. Purnell JQ, Braffett BH, Zinman B, Gubitosi-Klug RA, Sivitz W, Bantle JP, Ziegler G, Cleary PA, Brunzell JD; DCCT/EDIC Research Group. Impact of excessive weight gain on cardiovascular outcomes in Type 1 Diabetes: results from the Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Study. *Diabetes Care*. 2017;40:1756-1762.
5. DCCT/EDIC Research Group, Nathan DM, Bebu I, Hainsworth D, Klein R, Tamborlane W, Lorenzi G, Gubitosi-Klug R, Lachin JM. Frequency of evidence-based screening for retinopathy in Type 1 diabetes. *N Engl J Med*. 2017 Apr 20;376:1507-1516.

6. Mansour AM, Sheheitli H, Kucukerdonmez C, Sisk RA, Moura R, Moschos MM, Lima LH, Al-Shaar L, Arevalo JF, Maia M, Foster RE, Kayikcioglu O, Kozak I, Kurup S, Zegarra H, Gallego-Pinazo R, Hamam RN, Bejjani RA, Cinar E, Erakgün ET, Kimura A, Teixeira A. Intravitreal dexamethasone implant in retinitis pigmentosa-related cystoid macular edema. *Retina*. 2017 Feb 17. doi: 10.1097/IAE.0000000000001542. [Epub ahead of print]
7. Chen Z, Miao F, Paterson AD, Lachin JM, Zhang L, Schones DE, Wu X, Wang J, Tompkins JD, Genuth S, Braffett BH, Riggs AD; DCCT/EDIC Research Group, Natarajan R. Epigenomic profiling reveals an association between persistence of DNA methylation and metabolic memory in the DCCT/EDIC type 1 diabetes cohort. *Proc Natl Acad Sci U S A*. 2016;113(21):E3002-11.
8. Lenherr SM, Clemens JQ, Braffett BH, Cleary PA, Dunn RL, Hotaling JM, Jacobson AM, Kim C, Herman W, Brown JS, Wessells H, Sarma AV; DCCT/EDIC Research Group. Glycemic control and urinary tract infections in women with type 1 diabetes: Results from the DCCT/EDIC. *J Urol*. 2016;196:1129-1135.
9. Sharma S, Toth CA, Daniel E, Grunwald JE, Maguire MG, Ying GS, Huang J, Martin DF, Jaffe GJ; Comparison of Age-related Macular Degeneration Treatments Trials Research Group. Macular morphology and visual acuity in the second year of the Comparison of Age-Related Macular Degeneration Treatments Trials. *Ophthalmology*. 2016;123:865-875.
10. Shah N, Maguire MG, Martin DF, Shaffer J, Ying GS, Grunwald JE, Toth CA, Jaffe GJ, Daniel E; Comparison of Age-related Macular Degeneration Treatments Trials Research Group. Angiographic cystoid macular edema and outcomes in the Comparison of Age-Related Macular Degeneration Treatments Trials. *Ophthalmology*. 2016;123:858-864.
11. AREDS2 Research Group, Al-Holou SN, Tucker WR, Agrón E, Clemons TE, Sperduto RD, Ferris FL 3rd, Chew EY. The Association of statin use with cataract progression and cataract surgery: AREDS2 Report Number 8. *Ophthalmology*. 2016;123:916-917.
12. Daniel E, Shaffer J, Ying GS, Grunwald JE, Martin DF, Jaffe GJ, Maguire MG; Comparison of Age-Related Macular Degeneration Treatments Trials (CATT) Research Group. Outcomes in eyes with retinal angiomatous proliferation in the Comparison of Age-Related Macular Degeneration Treatments Trials (CATT). *Ophthalmology*. 2016;123:609-616.
13. Eny KM, Orchard TJ, Miller RG, Maynard J, Grant DM, Costacou T, Cleary PA, Braffett BH, Paterson AD; DCCT/EDIC Research Group. Caffeine consumption contributes to skin intrinsic fluorescence in type 1 Diabetes. *Diabetes Technol Ther*. 2015;17:726-734.
14. Willoughby AS, Ying GS, Toth CA, Maguire MG, Burns RE, Grunwald JE, Daniel E, Jaffe GJ; Comparison of Age-Related Macular Degeneration Treatments Trials

- Research Group. Subretinal hyperreflective material in the Comparison of Age-Related Macular Degeneration Treatments Trials. *Ophthalmology* 2015;122:1846-1853.
15. Chew EY, Clemons TE, Peto T, Sallo FB, Ingerman A, Tao W, Singerman L, Schwartz SD, Peachey NS, Bird AC; MacTel-CNTF Research Group. Ciliary neurotrophic factor (CNTF) for macular telangiectasia Type 2 (MacTel): Results from a phase I safety trial. *Am J Ophthalmol* 2015;159:659-666.
  16. Aref AA, Scott IU, Oden NL, Ip MS, Blodi BA, VanVeldhuisen PC; SCORE Study Investigator Group. Incidence, risk factors, and timing of elevated intraocular pressure after intravitreal triamcinolone acetonide injection for macular edema secondary to retinal vein occlusion: SCORE Study Report 15. *JAMA Ophthalmol.* 2015;133:1022-1029.
  17. Altaweel MM, Daniel E, Martin DF, Mittra RA, Grunwald JE, Lai MM, Melamud A, et al; Maguire MG; Comparison of Age-related Macular Degeneration Treatments Trials (CATT) Research Group. Outcomes of eyes with lesions composed of >50% blood in the Comparison of Age-Related Macular Degeneration Treatments Trials (CATT). *Ophthalmology* 2015;122:391-398.
  18. Simpson CL, Wojciechowski R, Oexle K, Murgia F, Portas L, Li X, Verhoeven VJ, et al; DCCT/EDIC Research Group. Genome-wide meta-analysis of myopia and hyperopia provides evidence for replication of 11 loci. *PLoS One* 2014 Sep 18;9(9):e107110. doi: 10.1371/journal.pone.0107110. eCollection 2014.
  19. Mansour AM, Arevalo JF, Al Kahtani E, Zegarra H, Abboud E, Anand R, Ahmadi H, et al. Role of intravitreal anti-vascular endothelial growth factor injections for choroidal neovascularization due to choroidal osteoma. *J Ophthalmol.* 2014;2014:210458. doi: 10.1155/2014/210458. Epub 2014 Jul 23.
  20. Mansour AM, Arevalo JF, Badal J, Moorthy RS, Shah GK, Zegarra H, Pulido JS, Charbaji A, Amselem L, Lavaque AJ, Casella A, Ahmad B, Paschall JG, Caimi A, Staurenghi G. Paraproteinemic maculopathy. *Ophthalmology* 2014;121:1925-1932.
  21. Hagstrom SA, Ying GS, Pauer GJ, Sturgill-Short GM, Huang J, Maguire MG, Martin DF; Comparison of Age-Related Macular Degeneration Treatments Trials (CATT) Research Group. VEGFA and VEGFR2 gene polymorphisms and response to anti-vascular endothelial growth factor therapy: comparison of age-related macular degeneration treatments trials (CATT). *JAMA Ophthalmol* 2014;132:521-527.
  22. Kim BJ, Ying GS, Huang J, Levy NE, Maguire MG; CATT Research Group. Sporadic visual acuity loss in the Comparison of Age-Related Macular Degeneration Treatments Trials (CATT). *Am J Ophthalmol.* 2014;158:128-135.
  23. Nathan DM, Bayless M, Cleary P, et al; DCCT/EDIC Research Group. Diabetes control and complications trial/epidemiology of diabetes interventions and complications study at 30 years: advances and contributions. *Diabetes* 2013;62:3976-3986.

24. Cheng CY, Schache M, Ikram MK, et al; Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions, and Complications Research Group. Nine loci for ocular axial length identified through genome-wide association studies, including shared loci with refractive error. *Am J Hum Genet* 2013;93:264-277.
25. Jacobson AM, Braffett BH, Cleary PA, Gubitosi-Klug RA, Larkin ME; DCCT/EDIC Research Group. The long-term effects of type 1 diabetes treatment and complications on health-related quality of life: a 23-year follow-up of the Diabetes Control and Complications/Epidemiology of Diabetes Interventions and Complications cohort. *Diabetes Care* 2013;36:3131-3138.
26. Orchard TJ, Lyons TJ, Cleary PA, et al; DCCT/EDIC Research Group. The association of skin intrinsic fluorescence with type 1 diabetes complications in the DCCT/EDIC study. *Diabetes Care* 2013;36:3146-3153.
27. Jaffe GJ, Martin DF, Toth CA, et al; Comparison of Age-related Macular Degeneration Treatments Trials Research Group. Macular morphology and visual acuity in the comparison of age-related macular degeneration treatments trials. *Ophthalmology* 2013;120:1860-1870.
28. Danis RP, Domalpally A, Chew EY, et al; AREDS2 Study Group. Methods and reproducibility of grading optimized digital color fundus photographs in the Age-Related Eye Disease Study 2 (AREDS2 Report Number 2). *Invest Ophthalmol Vis Sci* 2013;54:4548-4554.
29. Lopes-Virella MF, Baker NL, Hunt KJ, Cleary PA, Klein R, Virella G; DCCT/EDIC Research Group. Baseline markers of inflammation are associated with progression to macroalbuminuria in type 1 diabetic subjects. *Diabetes Care* 2013;36:2317-2323.
30. Verhoeven VJ, Hysi PG, Wojciechowski R, et al; Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Research Group. Genome-wide meta-analyses of multiethnicity cohorts identify multiple new susceptibility loci for refractive error and myopia. *Nat Genet* 2013;45:314-318.
31. Hagstrom SA, Ying GS, Pauer GJ, et al; Comparison of AMD Treatments Trials Research Group. Pharmacogenetics for genes associated with age-related macular degeneration in the Comparison of AMD Treatments Trials (CATT). *Ophthalmology* 2013;120:593-599.
32. Ying GS, Huang J, Maguire MG, et al; Comparison of Age-related Macular Degeneration Treatments Trials Research Group. Baseline predictors for one-year visual outcomes with ranibizumab or bevacizumab for neovascular age-related macular degeneration. *Ophthalmology* 2013 Jan;120:122-129.
33. Comparison of Age-related Macular Degeneration Treatments Trials (CATT) Research Group, Martin DF, Maguire MG, Fine SL, Ying GS, Jaffe GJ, Grunwald JE, Toth C,

- Redford M, Ferris FL 3rd. Ranibizumab and bevacizumab for treatment of neovascular age-related macular degeneration: two-year results. *Ophthalmology* 2012;119:1388-1398.
34. Lopes-Virella MF, Baker NL, Hunt KJ, Lyons TJ, Jenkins AJ, Virella G; DCCT/EDIC Study Group. High concentrations of AGE-LDL and oxidized LDL in circulating immune complexes are associated with progression of retinopathy in type 1 diabetes. *Diabetes Care* 2012;35:1333-1340.
35. DCCT/EDIC Research Group, de Boer IH, Sun W, Cleary PA, Lachin JM, Molitch ME, Steffes MW, Zinman B. Intensive diabetes therapy and glomerular filtration rate in type 1 diabetes. *N Engl J Med* 2011;365:2366-2376.
36. Haller JA, Bandello F, Belfort R Jr, et al; Ozurdex GENEVA Study Group, Li J. Dexamethasone intravitreal implant in patients with macular edema related to branch or central retinal vein occlusion twelve-month study results. *Ophthalmology* 2011;118:2453-2460
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39. CATT Research Group, Martin DF, Maguire MG, Ying GS, Grunwald JE, Fine SL, Jaffe GJ. Ranibizumab and bevacizumab for neovascular age-related macular degeneration.. *N Engl J Med* 2011 May 19;364:1897-1908. Epub 2011 Apr 28.
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### **Book Chapters**

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**Posters**

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