

CURRICULUM VITAE

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PROFESSIONAL POSITIONS

Retina Associates of Cleveland, 1998–
Practice limited to retinal diseases and surgery
President, 2009–
Associates: Lawrence J. Singerman, MD; Michael A. Novak, MD; Hernando Zegarra, MD;
Z. Nicholas Zakov, MD; Scott D. Pendergast, MD; Joseph M. Coney, MD; Jerome P.
Schartman, MD; Llewelyn J. Rao, MD; Lili G. Kaplan, MD; Shawn A. Lewis, MD

Cleveland Eye and Laser Surgery Center
Founder
Medical Director, 2007–
President of Governing Board, 2007–

EDUCATION/TRAINING

Fellowship Vitreo-Retinal Surgery and Disease Fellowship
Massachusetts Eye and Ear Infirmary
Harvard Medical School – Clinical Instructor
Boston, Massachusetts
1997–1998

<i>Residency</i>	Ophthalmology Indiana University Medical Center Indianapolis, Indiana 1994–1997 Chief Resident, 1996–1997
<i>Internship</i>	Internal Medicine University Hospital Cincinnati, Ohio 1993–1994
<i>Medical School</i>	University of Cincinnati Cincinnati, Ohio 1989–1993, MD Alpha Omega Alpha Medical Honor Society, junior year inductee Medical Student Research Award College of Medicine Merit Award James R. Nicholl Memorial Scholar
<i>College</i>	The Ohio State University Columbus, Ohio 1985–1989, BS (Chemistry) Summa cum laude with Honors in the Liberal Arts Outstanding Senior in Chemistry Award Phi Beta Kappa Ohio Regents Scholar Ohio State University Distinguished Scholar President’s Award for Excellence in Scholarship

LICENSURE AND BOARD CERTIFICATION

Licensed to practice medicine in Ohio

Diplomate, American Board of Ophthalmology, 1999 (Passed Maintenance of Certification 2009, 2019)

ACADEMIC AND TEACHING ACTIVITIES

Surgical Eye Expeditions (SEE) International (nonprofit to third-world ophthalmic surgery instruction)

Volunteer Faculty, 2016–

ORBIS International (nonprofit organization devoted to blindness prevention and treatment in developing countries)

Volunteer Faculty, 2013–

International Consultant, CyberSight Telemedicine Program (web-based telemedicine initiative for training, education, and clinical support), 2013–

Ohio Eye Injury Registry
Chairman, 2002–

Chief Teaching Resident, Indiana University Medical Center, Department of Ophthalmology;
1996–1997
Medical student lectures and testing, grand rounds scheduling, guest speakers,
interdepartmental education

Medical Biochemistry Recitation Leader, University of Cincinnati; 1990–1991
Biochemical problem-solving guidance for first-year medical students

Research Intern, National Institutes of Health, Bethesda, Maryland; 1989
Biochemical studies concerning ozone oxidation of proteins

PROFESSIONAL SOCIETIES AND COMMITTEES

Cleveland Ophthalmological Society
President, 2004–2005
President-elect, 2003–2004
Vice President, 2002–2003
Treasurer, 2000–2002

Diabetic Retinopathy Clinical Research Network Group
Protocol Development Committee, 2005

Scientific reviewer, *Survey of Ophthalmology*

Scientific reviewer, *Journal of Cataract and Refractive Surgery*

Scientific reviewer, *Retina, The Journal of Retinal and Vitreous Diseases*

MEMBERSHIPS

Best Doctors in America, 2011-2015
Member, Phi Beta Kappa
Alpha Omega Alpha Medical Honor Society
American Academy of Ophthalmology
American Eye Study Club
American Medical Association
American Society of Retinal Specialists (formerly the Vitreous Society)
Association for Research in Vision and Ophthalmology
Massachusetts Eye and Ear Infirmary Alumni Association
Ohio State Medical Association
Ohio Ophthalmological Society
Phi Beta Kappa

HOSPITAL & ASC AFFILIATIONS

Cleveland Eye and Laser Surgery Center; Cleveland, Ohio
Cleveland Clinic Health System; Cleveland, Ohio
Summa Health; Akron, Ohio

RESEARCH ACTIVITIES

NIH-funded Grants

DRCRnet Protocol V. Treatment for central involved diabetic macular edema in eyes with very good visual acuity

Principal Investigator, 2014–

DRCRnet (Diabetic Retinopathy Clinical Research Network) Protocol T. A comparative effectiveness study of intravitreal aflibercept, bevacizumab and ranibizumab for diabetic macular edema

Principal investigator, 2012–

DRCRnet Protocol K. Course of response to focal photocoagulation for diabetic macular edema

Principal investigator, 2007–2008

DRCRnet Protocol D. Evaluation of vitrectomy for diabetic macular edema

Principal investigator, 2006–2012

DRCRnet Protocol I. Intravitreal ranibizumab or triamcinolone acetonide in combination with laser photocoagulation for diabetic macular edema

Principal investigator, 2007–2014

DRCRnet Protocol W. Intravitreal anti-vascular endothelial growth factor treatment for prevention of vision threatening diabetic retinopathy in eyes at high risk

Co-investigator, 2016–

DRCRnet Protocol AA. Peripheral diabetic retinopathy lesions on ultrawide-field fundus images and risk of diabetic retinopathy worsening over time

Co-investigator, 2015–

DRCRnet Protocol U. Short-term evaluation of combination corticosteroid+anti-VEGF treatment for persistent central-involved diabetic macular edema following anti-VEGF therapy in pseudophakic eyes

Co-investigator, 2014–

Study of COmparative Treatments for REtinal Vein Occlusion 2 (SCORE2)

Co-investigator, 2014–

DRCRnet Protocol S. Prompt panretinal photocoagulation versus intravitreal ranibizumab with deferred panretinal photocoagulation for proliferative diabetic retinopathy
Co-investigator, 2012–

DRCRnet: Genes in Diabetic Retinopathy Project
Co-investigator, 2012–

Home vision monitoring in AREDS2 for progression to neovascular age-related macular degeneration
Co-investigator, 2011–2013

DRCRnet Protocol M. Effect of diabetes education during retinal ophthalmology visits on diabetes control
Co-investigator, 2011–

DRCRnet Protocol R. Phase II evaluation of topical NSAIDS on eyes with non-central involved DME
Co-investigator, 2011–2013

DRCRnet Protocol N. An evaluation of intravitreal ranibizumab for vitreous hemorrhage due to proliferative diabetic retinopathy
Co-investigator, 2010–2012

DRCRnet Protocol O. Comparison of time-domain OCT and spectral domain OCT retinal thickness measurement in diabetic macular edema
Co-investigator, 2009–2010

Age-Related Eye Disease Study 2
Co-investigator, 2006–2012

DRCRnet Protocol H. A Phase 2 evaluation of anti-VEGF therapy for diabetic macular edema: bevacizumab (Avastin)
Co-investigator, 2006–2008

DRCRnet Protocol E. A pilot study of peribulbar triamcinolone acetonide for diabetic macular edema
Co-investigator, 2005–2007

Standard Care vs. COrticosteroid for REtinal Vein Occlusion (SCORE) Study
Co-investigator, 2005–2007

DRCRnet Protocol B. A randomized trial comparing intravitreal triamcinolone acetonide and laser photocoagulation for diabetic macular edema
Co-investigator, 2004–2007

DRCRnet) Protocol #1A. A pilot study of laser photocoagulation for diabetic macular edema
Co-investigator, 2003–2007

Family Investigation of Nephropathy and Diabetes – FIND (National Institute of Diabetes and Digestive and Kidney Diseases/NIH)

Co-investigator/Study Ophthalmologist. 2000–

Epidemiology of Diabetes Interventions and Complications Trial – EDIC (National Institute of Diabetes and Digestive and Kidney Diseases/NIH)

Co-investigator, 1998–

Complications of Age-related Macular Degeneration Prevention Trial – Laser treatment of drusen – CAPT

Co-investigator, 1998–2007

Other National Clinical Trials

Ocriplasmin for treatment of systematic vitreomacular adhesion including macular hole (OASIS)

Principal investigator, 2011–2014

A randomized, placebo controlled, double-masked, multicenter trial of microplasmin intravitreal injection for non-surgical treatment of focal vitreomacular adhesion

Principal investigator, 2008–2010

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

Principal 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)

Principal investigator, 2007–2008

FVF3689g (SAILOR): A Phase IIIb, multicenter study to evaluate the safety and tolerability of ranibizumab in naïve and previously treated subjects with choroidal neovascularization (CNV) secondary to age-related macular degeneration (AMD)

Principal investigator, 2006–2007

Protocol FVF3426g (HORIZON): An open-label, multicenter extension study to evaluate the safety and tolerability of ranibizumab in subjects with subfoveal choroidal neovascularization (CNV) secondary to age related macular degeneration (AMD) who have completed the treatment phase of a Genentech-sponsored ranibizumab study

Principal investigator, 2006–2007

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

Principal investigator, 2005–2007

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

Principal investigator, 2005–2007

RNAi Assessment of Cand5 in Diabetic Macular Edema (RACE)

Principal investigator, 2005–2007

The effect of ruboxistaurin on clinically significant macular edema in patients with diabetes mellitus, as assessed by optical coherence tomography

Principal investigator, 2005–2011

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

Principal investigator, 2004–2005

Protocol FVF2587g: a Phase III, multicenter, randomized, double-masked, active treatment-controlled study of the efficacy and safety of rhuFabv2 (ranibizumab) compared with verteporfin (Visudyne[®]) photodynamic therapy in subjects with predominantly classic neovascular age-related macular degeneration

Principal investigator, 2003–2006

Intravitreal Steroid Injection Studies (ISIS)

Principal investigator, 2002–2006

Phase II multicenter, randomized, active treatment-controlled study of the efficacy and safety of the ranibizumab port delivery system for sustained delivery of ranibizumab in patients with subfoveal neovascular age-related macular degeneration

Co-investigator, 2016–

Randomized, double-masked, placebo-controlled, dose-finding, non-inferiority study of X-82 plus prn intravitreal (IVT) anti-VEGF compared to prn IVT anti-VEGF monotherapy in neovascular AMD

Co-investigator, 2016–

Phase I dose-escalation study evaluating the safety, pharmacokinetics and pharmacodynamics of OPT-302 in combination with ranibizumab in subjects with wet AMD

Co-investigator, 2016–

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

Co-investigator, 2016–

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

Co-investigator, 2015–

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–

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–

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

Co-investigator, 2015–

Randomized, double-masked, multicenter, three-arm study comparing the efficacy and safety of RTH-258 versus aflibercept in subjects with neovascular age-related macular degeneration

Co-investigator, 2015–

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

Co-investigator, 2015–

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–

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–

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–

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–

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–

Phase 2 multicenter randomized clinical trial of ciliary neurotrophic factor (CNTF) for macular telangiectasia type 2 (MacTel)

Co-investigator, 2013–

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–

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

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

Co-investigator, 2012–

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

Co-investigator, 2012–

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

Co-investigator, 2012–

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–

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–

Dose-ranging study of pazopanib to treat neovascular age-related macular degeneration

Co-investigator, 2010–2011

Phase 1a, multicenter, open-label, single-dose, dose-escalation study of the safety, tolerability, pharmacokinetics, and immunogenicity of intravitreal injections of FCFD4514S in patients with geographic atrophy

Co-investigator, 2009–2010

Phase III, double-masked, multicenter, randomized, active treatment-controlled study of the efficacy and safety of 0.5 mg and 2.0 mg ranibizumab administered monthly or on an as-needed basis (PRN) in patients with subfoveal neovascular age-related macular degeneration (HARBOR)

Co-investigator, 2009–2012

Geographic Atrophy Treatment Evaluation (GATE) Study

Co-investigator, 2009–2012

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

Co-investigator, 2009–2012

Randomized, double-masked, placebo-controlled, add-on study to assess the efficacy of oral aliskiren 300 mg once daily for diabetic macular edema

Co-investigator, 2009–2010

Natural History of Geographic Atrophy Progression (GAP) Study

Co-investigator, 2008–2009

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

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

Co-investigator, 2008–2012

Anecortave acetate for treatment of steroid-induced intraocular pressure (IOP) elevation

Co-investigator, 2008–2009

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 (Ophthotech 1000)

Co-investigator, 2007–2008

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, 2007–2008

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

Co-investigator, 2007–

Indocyanine green (ICG) angiographic evaluation of ranibizumab (Lucentis®) treatment of pigment epithelial detachment (PED) associated with age-related macular degeneration (AMD)

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, 2007–2008

Denali: a 24-month randomized, double-masked, controlled, multicenter, phase IIIB study assessing safety and efficacy of verteporfin (Visudyne® photodynamic therapy administered in conjunction with ranibizumab (Lucentis®) versus ranibizumab (Lucentis®) monotherapy in patients with subfoveal choroidal neovascularization secondary to age-related macular degeneration

Co-investigator, 2007–2008

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

Co-investigator, 2007–2010

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

Co-investigator, 2007–2009

Phase IV, open label, multicenter trial of maintenance intravitreal injections of Macugen® (pegaptanib sodium) given every 6 weeks for 48 weeks in subjects with subfoveal neovascular age-related macular degeneration (AMD) initially treated with a modality resulting in maculopathy improvement (Eyeteck 1023)

Co-investigator, 2006–2008

Efficacy and safety of intravitreal injection of Macugen for recent onset neovascular lesions of AMD

Co-investigator, 2006–2008

Phase III, multicenter, masked, randomized, sham controlled trial to assess the safety and efficacy of DEX PS DDS (700 micrograms, 350 micrograms, or placebo) in the treatment of patients with diabetic macular edema

Co-investigator, 2006–2008

Macugen (pegaptanib sodium) for angioid streaks complicated by choroidal neovascular membrane

Co-investigator, 2006–2010

Macugen (pegaptanib sodium) for pathological myopia complicated by subfoveal choroidal neovascularization

Co-investigator, 2006–2010

Phase III, multicenter, masked, randomized, sham controlled trial to assess the safety and efficacy of DEX PS DDS (700 micrograms, 350 micrograms, or placebo) in the treatment of patients with macular edema following central retinal vein occlusion or branch retinal vein occlusion

Co-investigator, 2005–2008

Protocol OT-551-002: a multi-center, double-masked, randomized, vehicle-controlled, parallel group evaluation of the safety and efficacy of OT-551 ophthalmic solution to prevent formation or delay progression of nuclear cataract formation in post-vitrectomy patients

Co-investigator, 2005–2007

Ocular side effects of Cialis vs. Viagra vs. placebo

Co-investigator, 2005–2006

Natural and family history studies of macular telangiectasia (MacTel)

Co-investigator, 2005–

Interval Dose Evaluation of Anecortave Acetate (IDEAA) Study

Co-investigator, 2005–2008

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

A 24-month randomized, double-masked, sham controlled, multicenter, phase IIIB study comparing photodynamic therapy with verteporfin (Visudyne[®]) plus two different dose regimens of intravitreal triamcinolone acetonide (1 mg and 4 mg) versus Visudyne[®] plus intravitreal pegaptanib (Macugen[®]) in patients with subfoveal choroidal neovascularization secondary to age-related macular degeneration

Co-investigator, 2005–2006

Phase 4, randomized, active controlled, double-masked, single dummy, to compare the safety and efficacy of Macugen every 6 weeks plus sham PDT to Macugen every 6 weeks with PDT in patients with predominantly classic CNV (Eyetechnology 1012)

Co-investigator, 2005–2006

A Phase II randomized, double-masked, safety, efficacy, and pharmacokinetics study of Macugen vs. placebo given every 6 weeks for 30 weeks for vision loss due to macular edema secondary to CRVO (Eyetechnology 1011)

Co-investigator, 2004–2006

A Phase II prospective, randomized, double-masked, sham controlled, dose-ranging, multi-center trial to assess the effect of pegaptanib sodium on fovea thickening in patients with exudative subfoveal age-related macular degeneration (Eyetechnology 1009)

Co-investigator, 2005–2007

A Phase 1/2, randomized, masked, 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

Anecortave Acetate Risk-Reduction Trial

Co-investigator, 2004–2008

Protein Kinase C β Inhibitor Study B7A-MC-MBDL. Reduction in the occurrence of center-threatening diabetic macular edema

Co-investigator, 2004–2010

Multicenter, open label, flexible-dose, parallel-group evaluation of the cataractogenic potential of quetiapine fumarate (Seroquel™) and risperidone (Risperdal™) in the long term treatment of patients with schizophrenia or schizoaffective disorder

Co-investigator/Evaluating ophthalmologist, 2003–2008

Visudyne Patient Registry

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

A randomized, double-masked, multi-center trial of the safety, tolerability and pharmacokinetics of 1 mg/eye and 3 mg/eye intravitreal injections of pegaptanib sodium (anti-VEGF pegylated aptamer) given every 6 weeks for 54 weeks, in patients with exudative age-related macular degeneration (Eyetechnology 1006)

Co-investigator, 2002–2006

A Phase II randomized, controlled, double-masked, dose-finding, multi-center, comparative trial, in parallel groups, to establish the safety and preliminary efficacy of intravitreal injections of EYE001 (anti-VEGF pegylated aptamer), given every 6 weeks for 12 to 30 weeks to patients with clinically significant diabetic macular edema (CSME) involving the center of the macula (Eyeteck 1005)

Co-investigator, 2002–2003

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, 2001–2003

Fluocinolone Acetonide in Diabetic Macular Edema (FAME 4) Study: A multicenter, randomized, masked, controlled study to evaluate the safety and efficacy of Retisert[™], an intravitreal fluocinolone acetonide implant, in the treatment of patients with diabetic macular edema

Co-investigator, 2001–2007

Visudyne[™] Early Retreatment (VER) Study: Multicenter, randomized, parallel group, double-masked, controlled phase IIIb, 2-year study comparing the efficacy and safety of Visudyne[™] therapy with early retreatment to standard treatment in predominantly classic subfoveal choroidal neovascularization secondary to age-related macular degeneration

Co-investigator, 2001–2003

Phase II/III randomized, double-masked, controlled, dose-ranging, multicenter comparative trial, in parallel groups, to establish the safety and efficacy of intravitreal injections of EYE001 (anti-VEGF pegylated aptamer) given every 6 weeks for 54 weeks in patients with age-related macular degeneration (Eyeteck 1004)

Co-investigator, 2001–2005

Transpupillary thermotherapy for the treatment of subfoveal occult choroidal neovascular membranes in patients with age-related macular degeneration

Co-investigator, 2000–2004

Verteporfin in Age-related Macular degeneration (VAM) Study: Open-label, multicenter, safety study of the treatment of predominantly classic choroidal neovascularization secondary to age-related macular degeneration using photodynamic therapy with verteporfin for injection

Co-investigator, 1999–2000

Evaluation of safety and duration of efficacy of anecortave acetate sterile suspension versus placebo following a single sub-Tenon's injection for the inhibition of neovascularization in patients with exudative age-related macular degeneration

Co-investigator, 1998–2001

Verteporfin in Photodynamic Therapy Study

Co-investigator, 1998–2003

Protein kinase C β inhibitor studies: Diabetic Macular Edema Study and Diabetic Retinopathy Study

Co-investigator, 1998–2002

Metalloprotease inhibitor for subfoveal choroidal neovascular membranes in patients with macular degeneration

Co-investigator, 1998–2001

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

1. Clinical trials in macular disease. Cleveland Ophthalmological Society. Cleveland, Ohio. December 13, 2016.
2. Facility location and retinal surgery. American Eye Study Club Meeting. Amelia Island, Florida. August 2016.
3. Retinal surgical techniques and video potpourri. Optometric Retinal Update Seminar. Cleveland, Ohio. June 16, 2016.
4. FA and OCT interpretation for retinal diseases. Optometric Retinal Update Seminar. Akron, Ohio. April 16, 2016.
5. Moderator, Scientific Session III. American Eye Study Club Meeting. Mackinac Island, Michigan. July 30, 2015.
6. Retina Associates cases of 2015. Optometric Retinal Update Seminar. Cleveland, Ohio. June 18, 2015.
7. Miller DG, Miller AG, Rao LJ, Rowland DY, Hornik JH. The effect of patient-specific prescriptions on selection of anti-VEGF agents. American Eye Study Club. Vail, Colorado. July 2014.
8. Home monitoring for early detection of wet macular degeneration. Optometric Retinal Update Seminar. Cleveland, Ohio. June 26, 2014.
9. Bevacizumab vs. ranibizumab in the treatment of diabetic macular edema. Optometric Retinal Update Seminar. Beachwood, Ohio. March 20, 2014.
10. Bevacizumab vs. ranibizumab in the treatment of diabetic macular edema. Squaw Valley Retina Symposium. The Ritz-Carlton, Lake Tahoe. Truckee, California. February 6-9, 2014.
11. Use of surgical adjuncts for visualization during vitrectomy surgery. Cleveland Ophthalmological Society. Cleveland, Ohio. October 15, 2013.
12. Lucentis vs. Avastin for the treatment of diabetic macular edema. American Eye Study Club Annual Meeting. Atlantis Resort. Paradise Island, Bahamas. August 2, 2013.

13. Flashes and floaters. Optometric Retinal Update Seminar. Westlake, Ohio. June 18, 2013.
14. 1) Retinal surgery in the ambulatory surgical center. 2) A case of posterior uveitis-associated retinal detachment. 3) Chemical vitrectomy: microplasmin for the treatment of vitreoretinal traction. American College of Eye Surgeons/Surgical Excellence in Eyecare Caribbean Eye Meeting. San Juan, Puerto Rico. February 8-12, 2013.
15. Retinal update on anti-VEGF therapy (with Drs. Coney, Novak, Rao, Schartman, and Zegarra). Ophthalmologists' Update Seminar. Vermilion, Ohio, December 20, 2012.
16. Selection and implementation of electronic health record system. Cleveland Ophthalmological Society. Cleveland, Ohio. December 11, 2012.
17. Retinal update on anti-VEGF therapy (with Drs. Coney, Miller, Novak, Rao, Schartman, and Zegarra). Ophthalmologists' Update Seminar. Vermilion, Ohio, August 12, 2012.
18. Subspecialty boarding in ophthalmology: a medico-legal issue? American Eye Study Club Annual Meeting. The Grand Del Mar Resort. San Diego, California. July 31, 2012.
19. Retinal surgical cases: a video presentation. Optometric Retinal Update Seminar. Westlake, Ohio. June 5, 2012.
20. Retinal surgery in an ambulatory surgery center. The Many Faces of a Retina Practice, American Academy of Ophthalmic Executives Seminar, American Academy of Ophthalmology Annual Meeting. Orlando, Florida. October 22, 2011.
21. Introducing electronic health records to a retina practice. Cleveland Ophthalmological Society. Cleveland, Ohio. October 11, 2011.
22. Implementation of retinal electronic health records system. Retinal Update Seminar. Westlake, Ohio. June 28, 2011.
23. Unresponsive wet AMD. North Coast Retina Symposium. Cole Eye Institute, Cleveland Clinic Foundation. Cleveland, Ohio. May 13, 2011.
24. Chemical vitrectomy. Optometric Retinal Update Seminar. Beachwood, Ohio. March 3, 2011.
25. Recent developments in the etiology, treatment, and research of age-related macular degeneration. Cleveland Eye Clinic Update on Macular Degeneration, OCT Imaging, and Retinal Disease. Cleveland, Ohio. January 26, 2011.
26. Chemical vitrectomy. Cleveland Ophthalmological Society. Cleveland, Ohio. October 12, 2010.
27. Neovascular glaucoma. Optometric Retinal Update Seminar. Westlake, Ohio. August 19, 2010.

28. Surgery for neovascular glaucoma: two birds with one stone? American Eye Study Club Annual Meeting. Nemacon Woodland Resort; Farmington, Pennsylvania. August 3–7, 2010.
29. Singerman LJ, Novak MA, Miller DG, Coney JC, et al. Ranibizumab treatment for pigment epithelial detachment (PED) in age-related macular degeneration (AMD). Retina Congress 2009, Combined Meeting of the American Society of Retina Specialists, The Macula Society, and The Retina Society. New York, New York. September 30–October 4, 2009.
30. Coney JM. Retina surgery videos (with David G. Miller, MD). National Medical Association Annual Meeting. Las Vegas, Nevada. July 25–29, 2009.
31. Chemical vitrectomy: clinical trial of intravitreal microplasmin. American Eye Study Club. Colorado Springs, Colorado. July 23, 2009.
32. Participant, Practice Management Symposium. American Eye Study Club. Colorado Springs, Colorado. July 24, 2009.
33. Interesting retinal cases. Northeast Ohio Vision Source meeting. Ashland, Ohio. July 8, 2009.
34. Chemical vitrectomy: clinical trial of intravitreal microplasmin. Optometric Retinal Update Seminar. June 18, 2009.
35. Berlon NR, Miller DG, Novak MA, Pendergast SD, Coney JM. Safety and efficacy of 25-gauge vitrectomy surgery by experienced vitreoretinal surgeons. Association for Research in Vision and Ophthalmology Annual Meeting. Program # 5202. Fort Lauderdale, Florida. May 7, 2009.
36. Retinal imaging (with H. Zegarra). Optometric Continuing Education Program and Open House. Lorain, Ohio. January 13, 2009.
37. Surgical techniques for epiretinal membrane removal. Retinal Update for Ophthalmologists. Cleveland, Ohio. November 20, 2008.
38. Small-gauge vitrectomy in our practice: expanded indications. Optometric Retinal Update Seminar. Westlake, Ohio. July 15, 2008.
39. Small-gauge vitrectomy in our practice: expanded indications. 8th Congress of the Croatian Ophthalmological Society. Sibenik, Croatia. May 8–10, 2008.
40. 25-gauge surgery for macular hole repair. American Eye Study Club, 50th Annual Meeting. Ritz Carlton Bachelor Gulch, Beaver Creek, Colorado. July 22–26, 2007.
41. Update on diabetic retinopathy: diagnosis and treatment. Optometric Retinal Update Seminar. Westlake, Ohio. July 17, 2007.

42. Macular hole repair. Optometric Retinal Update Seminar. Beachwood, Ohio. February 15, 2007.
43. Results of surgical management of senile macular holes by 25-gauge trans-conjunctival sutureless vitrectomy compared to standard vitrectomy systems. Annual meeting of the American Society of Retina Specialists. Cannes, France. September 8–13, 2006.
44. Treating macular degeneration with ranibizumab (Lucentis). Optometric Retinal Update Seminar. Westlake, Ohio. August 10, 2006.
45. Vitrectomy surgery. Parma Community General Hospital Retinal Update. Parma, Ohio. March 21, 2006.
46. Angiography in macular degeneration: Avastin and Lucentis. Optometric Retinal Update Seminar. Beachwood, Ohio. February 9, 2006.
47. Pharmacotherapy for age-related macular degeneration. Michigan Ophthalmological Society. Detroit, Michigan. November 16, 2005.
48. Update on treatments for age-related macular degeneration. Buffalo Eye Club. Buffalo, New York. October 27, 2005.
49. Modern retinal imaging. Optometric Retinal Update Seminar. Westlake, Ohio. August 11, 2005
50. Flashes & floaters. Optometric Retinal Update Seminar. Beachwood, Ohio. February 15, 2005
51. Cataract surgery and retinal disease. Optometric Retinal Update Seminar. Westlake, Ohio. July 29, 2004.
52. Retinal detachment: principles and treatment. Ohio Ophthalmological Society Annual Meeting. March 20, 2004.
53. Cataract surgery and macular disease. Ohio Ophthalmological Society Annual Meeting. March 20, 2004.
54. Co-chair, Cleveland Ophthalmological Society. Cleveland, Ohio. February 10, 2004.
55. Photodynamic therapy and macular degeneration. Optometric Continuing Medical Education. Vermilion, Ohio. December 2003.
56. Retinal complications of toxoplasmosis retinitis. Cleveland Ophthalmological Society. Cleveland, Ohio. October 2003.
57. Cataract surgery and retinal diseases. Cleveland Ophthalmological Society. Cleveland, Ohio. October 2003.

58. Update on diabetic retinopathy. East-West Eye Conference. Cleveland, Ohio. October 2003.
59. Diagnosis of vitreous opacities (vitreous amyloidosis). Cleveland Ophthalmological Society. Cleveland, Ohio. April 15, 2003.
60. Pharmacotherapy of treatment of diabetic retinopathy. Optometric Retinal Update Seminar. Westlake, Ohio. August 12, 2003.
61. Implantable miniature telescope. Optometric Retinal Update Seminar. Beachwood, Ohio. February 20, 2003.
62. Update on macular degeneration. Cuyahoga Community College Encore Campus. Cleveland, Ohio. November 1, 2002.
63. Posterior segment complications and other challenges of LASIK in the high myope (with Mohinder K. Gupta, MD, co-instructor). American Society of Cataract and Refractive Surgery. Philadelphia, Pennsylvania. June 4, 2002.
64. Intravitreal triamcinolone acetonide for the treatment of macular edema. Cleveland Ophthalmological Society. Cleveland, Ohio. February 12, 2002.
65. The future of retinal care. Ohio Optometric Society. The Symposium of the Future. Cleveland, Ohio. February 4, 2002.
66. The myopic retina. Optometric Refractive Surgery Society, 6th Annual Symposium; August 2001. 1) Update on Diabetic Retinopathy; 2) Update on Age-related Macular Degeneration; and 3) Retinal Complications of High Myopia. Society for Excellence in Eyecare Conference; Aruba. January 27–31, 2002.
67. Update on photodynamic therapy with Visudyne. State University of New York, Visiting Professor. May 2001.
68. Unusual presentation of posterior scleritis. Cleveland Ophthalmological Society. Cleveland, Ohio. 2001.
69. Controversy in the management of posterior segment trauma. Cleveland Ophthalmological Society. Cleveland, Ohio. 2000.
70. Surgical management of macular hole. East-West Eye Conference. Cleveland, Ohio. 1999.
71. What's new in macula? East-West Eye Conference; Cleveland, Ohio, 1999.
72. Update on the management of age-related macular degeneration. East-West Eye Conference. Cleveland, Ohio. 1999.
73. Treatment of macular hole. Massachusetts Eye and Ear Infirmary Seminar, Surgical Advances in Ophthalmology. 1998.

74. Presumed ocular histoplasmosis syndrome and corticosteroids. Indiana University. 1997.
75. The use of corticosteroids in the treatment of histoplasmosis-related subfoveal choroidal neovascularization. Association for Research and Vision in Ophthalmology Annual Meeting. Fort Lauderdale, Florida, 1997.
76. Patient satisfaction with orbicectomy in the treatment of blepharospasm. Indiana University, 1996.

PUBLICATIONS

Journal Articles

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2. 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.
3. 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.
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5. 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.
6. 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: The AREDS2 Report Number 8. *Ophthalmology*. 2016;123:916-917.
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8. Wells JA, Glassman AR, Jampol LM, Aiello LP, et al; Diabetic Retinopathy Clinical Research Network. Association of baseline visual acuity and retinal thickness with 1-year efficacy of aflibercept, bevacizumab, and ranibizumab for diabetic macular edema. *JAMA Ophthalmol.* 2016;134:127-134.
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11. Aiello LP, Ayala AR, Antoszyk AN, Arnold-Bush B, Baker C, Bressler NM, Elman MJ, Glassman AR, Jampol LM, Melia M, Nielsen J, Wolpert HA; Diabetic Retinopathy Clinical Research Network. Assessing the effect of personalized diabetes risk assessments during ophthalmologic visits on glycemic control: a randomized clinical trial. *JAMA Ophthalmol.* 2015;133:888-896.
12. 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.
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- digital fundus photographs in eyes of individuals with diabetes mellitus. *Invest Ophthalmol Vis Sci.* 2011;52:6168-6173.
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