

Illinois Retina Associates and Rush University School of Medicine



Fellowship in Retinal-Vitreous Surgery & Diseases

Zac Ravage, MD Retinal Fellow, 2006 - 2008

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Fellowship in Retinal-Vitreous Diseases & Surgery

Greetings From the Vitreo-Retinal Surgery Fellowship Director

Welcome to the start of your retinal career!

All of the previous years of education and medical training have established the principals upon which you will now build. During your fellowship, you learn your craft. The decision on where to train is one of your most important career decisions. Medical and surgical training in particular is based on the principal of "building on the learning curves of others." Just like our parents guided us as children on what to do, and importantly what not to touch for fear of burning our fingers, so too our fellowship mentors guide us on what to do, what to touch, what not to touch and how to treat . . . based on their past experiences. That is why choosing who to train with is so critical. Fellows carry with them the minds of their mentors. We call this . . . **the Ripple Effect**.

The doctors of Rush University and Illinois Retina Associates bring to the fellowship over 300 years of clinical experience as practicing retinal specialists. We have been training fellows for 30 years. Just as we are all "extensions" of our parents, so too our fellows are extensions of us all. But like our children, our fellows are their own people too, which is what is most exciting to us about training new specialists. We are proud of our reputation and the care we deliver to our patients, the teaching we do, and the clinical research we perform. We are proud that our fellows are part of that mission . . . and our mission is to be the best!

The faculty of this fellowship work at the training ... it is not a passive pursuit. Our fellows don't simply watch us. We are proud to offer diversity of approach - which is one of the great assets of this fellowship. We are proud to offer strong numbers of patients. We are proud that we train our fellows not only to operate, but how to manage patients both preoperatively and postoperatively. We are proud to guide our fellows on how to observe and report those observations as part of clinical research & publications. We are proud to offer our fellows the tricks and nuances of having a successful practice with great patient and referral satisfaction. We are in the end, very proud of our fellowship graduates.

The goal of our fellowship is not only to build a strong foundation on how to treat various retinal diseases but also to teach our fellow how to provide the best and most passionate care to the patients.

We invite you to look at the fellowship at Rush University & Illinois Retina Associates and see if this is the type of training you want.

We welcome your interest in our fellowship program!

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Kourous A. Rezaei, MD Associate Professor & Director Vitreo-Retinal Surgery Fellowship

Mission Statement

The mission of the Illinois Retina Associates-Rush University Medical School Retinal Fellowship is to provide an infrastructure for the training of retinal fellows through the hands-on delivery of state of the art diagnostic and therapeutic patient care within all areas of medical and surgical retinal disease management, with oversight by the finest retinal specialists, utilizing the best equipment available, and the most modern and up to date techniques accepted, through methods of direct patient care, participation in clinical research, contributions to the sharing of knowledge to colleagues at meetings and in the medical literature, and through participation in the teaching of ophthalmology residents and medical students.

HISTORY OF FELLOWSHIP

Illinois Retina Associates began its strong academic association with the Department of Ophthalmology at Rush University Medical Center in 1985 when Dr. Packo joined Drs. Orth and Flood. The retinal-vitreous fellowship was founded and directed by Drs. Orth and Packo the following year in 1986 in conjunction with Rush University, with Dr. Preston Richmond graduating as the program's first fellow. The program is funded at the Rush PGY-5 and 6 levels. As is typical of all ophthalmology fellowships, it is non-ACGME approved. The fellowship combines training in both medical and surgical retinal disease management.

During the initial years from 1986-96, the fellowship was an intensive, one year training in both medical and surgical retina, with fellows matching though the San Francisco Ophthalmology Matching Program (now the SFMatch). Ten retinal fellows were trained during the first decade. The fellowship was then voluntarily suspended for the next six years during which no fellows were trained. The program restarted again in 2002, under the direction of Dr. David Chow. In it's new direction, the fellowship was expanded to two years, with one fellow entering each year, again matching through the SFMatch. Upon Dr. Chow's return to practice in his home in Canada in 2005, the direction of the fellowship continued under Dr. Mathew MacCumber for 7 years. Dr. Rezaei has currently served as the fellowship director since 2012.

GOAL AND SCOPE OF FELLOWSHIP

The goal of the fellowship is to provide an advanced level of training in the diagnosis and management of medical and surgical disorders of the retina and vitreous. Fellows will acquire the necessary clinical skills for the treatment of patients with vitreoretinal diseases by initial evaluation and long term follow-up of outpatients; pre, intra-, and post-operative care of patients and in-depth reading of subspecialty journals and texts as well as discussions and lectures. It is the desire to train "end of the line" retinal specialists ... fellow graduates should be able to handle both medical and surgical problems without the need to refer them to other specialists because they are unprepared to deal with that type of pathology. This includes ocular oncology, uveitis & infectious diseases, posterior segment trauma, hereditary diseases, and pediatric retinal conditions. The only subset of retinal disease that is not taught in the Rush University/Illinois Retina Fellowship is the management of surgical retinopathy of prematurity, which are typically referred away.

Besides proficiency in surgery and disease management, fellows obtain education with regards to the economics of a retinal practice and practicalities that apply to everyday clinical practice as well as university practice. Because of the unique combination of university/academic and private practice retina by the fellowship faculty, the fellows are positioned to be able to compete for future employment at top positions in both private practice and universityemployed settings.

THE HANDS-ON APPROACH

Proper training in the management of retinal and vitreous diseases mandates the necessity for hands-on surgical experience. The fellow is expected to actively participate in the surgical management of patients and not merely to be an observer throughout the entire fellowship. As was stated by the director's welcoming statement above, surgical training is built on the principal of constantly "building on the learning curves of others." For that reason, the Rush/ IRA mentors feel strongly that every surgical experience should be always guided by an experienced surgeon at the side of the fellow at every case, continuing to build on this learning curve. Fellows never operate with each other or alone with residents. Fellowships in other programs rationalize that this gives fellows the opportunity to "make decisions in the OR." The Rush fellowship avoids this practice since it is felt that fellows should always strive to absorb as much of the experience of their mentors as they can.

It is expected that by the end of the fellowship, the trainee should feel comfortable in the actual management of the most complicated vitreous cases.

LEARN BY TEACHING

The fellowship has a strong interaction with the Rush residency program. Fellows function as full attendings in the retina and uveitis clinics. Although there are also faculty present in the clinics, this gives the fellow the charge of overseeing clinical decisions with the residents, forcing the fellow to think in an organized fashion and implement the algorithms learned. Fellows attend one clinic on Monday afternoons in which they are the sole retinal attending present forcing even more decision making. Fellows take a very active role in teaching the residents by presenting morning lectures, moderating retinal journal clubs, and overseeing resident laser and injection procedures.

DIVERSITY OF THOUGHT

One of the strongest assets of the Rush fellowship is the contact with multiple experienced and accomplished faculty mentors. The faculty provide expertise in several "retinal schools" of approach such as the "Milwaukee School" vs. "The Duke School" vs. "The Wilmer School" and so on. Clinical management of retinal diseases can often be successfully managed with various types of approaches. Fellows are exposed to a multiple of well accepted methodologies both in the office and in the operating room. At the completion of the two years, fellows develop and take away those approaches that work the best for them. The have developed their "own school" but in reality are taking with them the best of each of their mentors.

THE STRIVE FOR EXCELLENCE

The faculty practice each day and manage each patient with the goal of providing the best possible care available. The faculty are committed to be contributors by participation in clinical research. The faculty are recognized international thought leaders and strive to share knowledge at all times. Fellows are an integral part of the strive for excellence exhibited by the all the faculty. Fellows from the program become lifelong reflections of the mission of the faculty here at Rush and in Illinois Retina. They become part of our family.

AUPO Compliance

The Association of University Professors in Ophthalmology (AUPO) established uniform educational standards for ophthalmology fellowships in 2009, and has continued oversight through the AUPO Fellowship Compliance Committee (AUPO FCC). The Illinois Retina-Rush University fellowship achieved AUPO compliance in the first year of the AUPO FCC program.



26 years of retinal fellowship history. Preston Richmond, MD, first retinal fellow 1986-87 (left) reminisces with Kirk Packo, MD (center) and Renaud Duval, MD, retinal fellow 2011-2013 (right). Dr. Richmond passed away in 2017.



Illinois Retina Associates History & Commitment to Patient Care, Clinical Research, Leadership and Teaching

The practice of retina in Chicago in the early 1970's was relatively new with only a handful of "retinal specialists." Nationally, vitreous surgery was just beginning and another new invention called the "LASER" was only a few years old and had just been introduced into ophthalmology. Buckle surgery and cryopexy for retinal tears were the main activities of the retinal specialist. Also, fluorescein angiography was still in its infancy and was just beginning to become available usually in only a few select locations.

"Being an academician is a frame of mind... It is not determined by where you get your paycheck"

Dr. David Orth completed a retinal fellowship at the Wilmer Eye Institute in 1975 and was among the first to bring laser technology to Chicago. In 1976, he opened a retina-only practice in downtown Chicago with the first and only red wavelength laser in the area. He offered fluorescein angiography services to any ophthalmologist needing the testing.

The mid 70's saw the introduction of the "Ocutome" vitrectomy platform by Dr. Conor O'Malley - the first 20 ga. widely accepted vitrectomy system. At that time, vitrectomy had not yet been taught in a fellowship setting. In order to teach this new surgical technique, a series of national Ocutome workshops were organized for practicing eye surgeons. Dr. Orth led the Chicago area by organizing and teaching several Ocutome Workshops with Dr. O'Malley, along with several other early vitrectomy thought leaders such as Drs. Steve Charles, Ronald Michels and Jay Federman. Dr. Orth would set the tone of providing the latest state-of-the-art equipment and techniques for the Chicago area. He also demonstrated his commitment to share this knowledge as a true thought leader from the beginning. Orth's philosophy would later serve to establish the culture for Illinois Retina for years to come.

Orth joined the teaching faculty at the University of Illinois Eye & Ear Infirmary, establishing the first Macula Clinic. His commitment to clinical research began early in his career too with participation in the landmark NIH trials of the 70's and 80's including the Macular Photocoagulation Study (MPS), the Early Treatment Diabetic Retinopathy Study (ETDRS) and the Branch Vein Occlusion Study (BRVOS) all as principal investigator. This commitment to clinical research again set the culture for Illinois Retina which would follow with over 60 more multicenter industry and NIH clinical trials proving that great clinical research can be done from a private practice setting.

Timothy Flood joined Orth in 1981. When Kirk Packo joined the team in 1985, the three changed the name to Illinois Retina Associates. Although the name would change, the culture continued. In 1983, the group began its strong academic ties to Rush University and the department of ophthalmology at Rush. Packo became the first Retinal Section director in 1985. The retinal fellowship would begin the following year in 1986 under the direction of Drs. Packo and Orth, and with sponsorship of Rush Medical College. Serge de Bustros would join the culture of Illinois Retina next, from his position at the Wilmer Institute where he achieved a national reputation through his extensive work and publications with Ron Michels. Joseph Civantos would be the first fellow trained at Rush to join the group next, followed by another Rush trained fellow, Jack Cohen. Cohen would expand the expertise of the group with an additional full fellowship in ocular oncology. Mathew MacCumber joined shortly thereafter after his chief residency at Wilmer. Pauline Merrill and John Pollack joined the same year in 1997. Kourous Rezaei left his position at the University of Chicago to join in 2005, followed by Drs. Hasan, Ravage, Chaturvedi and Sabherwal. Of tribute to the quality of the fellowship training was the fact that six of the current IRA group are former Rush/ IRA fellows. Dr. Orth retired from clinical practice in 2016, and Dr. Flood retired in 2020, but the culture they created continues to be integral to the group.

Leadership typifies the group's national and international contributions. Dr. Orth has served as president of the Macula Society and on the executive committees of several NIH trials. Dr. Packo served for 18 years on the board of the ASRS as well as past president. Pollack served as vice-president and president-of the ASRS. Rezaei and MacCumber also sit on the ASRS board. Orth, Packo, MacCumber, Ravage and Chaturvedi have all served on the board of the Chicago Ophthalmological Society. MacCumber is on the board of the AAO. Hasan is president of the Illinois Society of Eye Physicians & Surgeons. The list of board and committee positions goes on and on.

Academics is a frame of mind. You don't become an academician simply because your paycheck comes from a university. You can be in private practice and still define what "academics" and being a thought leader is all about. What most defines Illinois Retina is *teaching*. Collectively the group has delivered thousands of papers, abstracts, videos, book chapters, and courses. The group administrates the residency program at Rush and is intimately involved in residency and medical student training. The dedication to retinal fellowship training is at the top of the priority list of the teaching culture. It is what defines the group as

culture. It is what defines the group as true academicians.

Faculty Mentors

Joseph M. Civantos, MD

Assistant Professor of Ophthalmology

Joseph M. Civantos, MD, specializes in the medical and surgical treatment of diseases of the retina and vitreous, including macular degeneration, retinal detachment, diabetic retinopathy, trauma to the eye, and retinopathy of prematurity. He has been associated with Illinois Retina Associates since 1994, and is also an Assistant Professor of Ophthalmology at Rush University Medical Center, in Chicago.

A native of Miami, Dr. Civantos inherited his passion for the practice of medicine from his father, who is also a physician. He received his undergraduate degree in biology from Harvard College, in Cambridge, MA, and his medical training at Columbia University College of Physicians and Surgeons, in New York. He completed an ophthalmology residency at the Bascom Palmer Eye Institute in Miami, FL, followed by a retina-vitreous fellowship at Rush University Medical Center. Dr. Civantos is certified by the American Board of Ophthalmology.

Dr. Civantos has participated in several ground-breaking clinical studies aimed at identifying the most effective treatments for conditions, such as macular degeneration, retinal detachment, and diabetic retinopathy; and has published studies in academic specialty journals, and presented his research at ophthalmology meetings throughout the US.

Dr. Civantos has been listed in Best Doctors in America and the Guide to America's Top Ophthalmologists, and he holds memberships in several professional organizations, including the American Academy of Ophthalmology, the American Board of Ophthalmology, for which he is an associate examiner, and the American Society of Retina Specialists.

Dr. Civantos and his wife, Lilliam, have seven children and eight grandchildren. In his free time, he and his family enjoy outdoor sports and activities, including hiking, camping, bicycling, and photography.

Undergraduate

BA - Harvard College

Medical School

MD - Columbia University College of Physicians and Surgeons

Residency

Bascom Palmer Eye Institute

Fellowship

Rush University School of Medicine

Leadership Positions

President and Managing Partner, Illinois Retina Associates, SC

Board of Directors, Deicke Center for Visual Rehabilitation

Examiner, American Board of Ophthalmology

Awards

Best Doctors in America



Years post fellowship: 29 Years in Illinois Retina: 29

Undergraduate

BS - University of Illinois

Medical School

MD - Rush University School of Medicine Residency

Rush University Medical Center

Chief Residency

Rush University Medical Center

Fellowships

Retina - Rush University Medical Center

Ocular Oncology - University of California, San Francisco

Heed Foundation

Leadership Positions

Examiner, American Board of Ophthalmology Reviewer, ACGME Residency Review Team Physician, Chicago White Sox Team Physician, Chicago Bulls

Awards

Achievement Award, AAO Teacher of the Year, Chicago Curriculum in Ophthalmology Golden Apple Award, Rush University



Years post fellowship: 27 Years in Illinois Retina: 27

Jack A. Cohen, MD, FACS

Associate Professor of Ophthalmology Associate Program Director Section Director, Ocular Oncology

Jack A. Cohen, MD, FACS, is a nationally recognized expert in the medical and surgical treatment of the retina, macula, and vitreous. He treats macular degeneration, diabetic retinopathy, retinal detachments, retinopathy of prematurity in infants and ocular cancers.

Dr. Cohen joined Illinois Retina Associates in 1995. He is one of a select group of specialists who has expertise in both vitreoretinal diseases and ocular oncology. In addition to his medical practice with Illinois Retina Associates, Dr. Cohen serves as the Director of Ocular Oncology and as Associate Professor of Ophthalmology in the Department of Ophthalmology at Rush University Medical Center. He was also the Residency Program Director for the Department of Ophthalmology at Rush University for over 23 years.

Born and raised in the Chicago area, Dr. Cohen graduated from the University of Illinois in Champaign- Urbana and attended Rush Medical College in Chicago, where he was Valedictorian of his graduating class. He completed an Ophthalmology residency at Rush University Medical Center, which was followed by a fellowship in Ocular Oncology at the University of California in San Francisco and a fellowship in Vitreoretinal Surgery at Rush University Medical Center. He is certified by the American Board of Ophthalmology.

Dr. Cohen has been an investigator in a number of major clinical trials related to Age-Related Macular Degeneration, Diabetic Retinopathy and Retinopathy of Prematurity.

Dr. Cohen is the author of a number of articles and publications and he has participated in hundreds of presentations. He enjoys reaching out to the community, teaching support groups and discussing the latest new treatments for retinal diseases.

Dr. Cohen has received numerous honors including the American Academy of Ophthalmology's Senior Achievement Award, as well as many Golden Apple awards for excellence in resident clinical and surgical education. He loves teaching residents and staff.

He holds memberships in many professional organizations such as the American Academy of Ophthalmology, the American Society of Retina Specialists, the American College of Surgeons, the Association for Research in Vision and Ophthalmology and the Illinois Society of Eye Physicians and Surgeons. He is also a test examiner for the American Board of Ophthalmology.

Dr. Cohen is pleased to hold the position of Head Ophthalmologist for the Chicago Bulls, Chicago White Sox and the Chicago Fire.

When he is not seeing patients, Dr. Cohen and his wife enjoy spending time with their children who are pursuing careers in medicine and pharmaceutical marketing. He and his wife are looking forward to world traveling in the future. As an avid runner and health enthusiast, Dr. Cohen is constantly training for his next new athletic challenge.

Mathew W. MacCumber, MD, PhD

Professor of Ophthalmology Associate Chairman for Research

Mathew W. MacCumber, MD, PhD, is a nationally recognized expert in the medical and surgical treatment of vitreoretinal disease.

He completed his undergraduate studies at Princeton University. He earned his medical degree and PhD, in neurosciences, at the Johns Hopkins University School of Medicine, and served as the Assistant Chief of Service at the Wilmer Eye Institute, at Johns Hopkins. He received the prestigious Ronald G. Michels and Heed Fellowships while completing his retina training at Duke University Eye Center.

In 1996, Dr. MacCumber joined Illinois Retina Associates and Rush University Medical Center, where he now holds the positions of Professor and Director of Research for the Department of Ophthalmology. Dr. MacCumber is an active participant in national and local ophthalmic associations. He was Chair of the American Academy of Ophthalmology (AAO) Council, as well as a member of the AAO Board of Trustees. He has served on the Board of Directors of the Macula Society and the American Society of Retina Specialists (ASRS), and is a Past-President of the Chicago Ophthalmological Society. He currently serves on the board of the Illinois Society for the Prevention of Blindness.

Dr. MacCumber directed the Vitreoretinal Fellowship program at Rush University Medical Center and Illinois Retina Associates for 8 years. He has received the AAO Achievement Award, the AAO Senior Achievement Award, the ASRS Honor Award, the ASRS Senior Honor Award, as well as two Secretariat Awards from the AAO for Education and Advocacy.

He authored or co-authored 39 peer-reviewed articles, 161 total articles, 12 book chapters, and edited the text Management of Ocular Injuries and Emergencies. Dr. MacCumber is a frequent speaker nationally and internationally, and has served as Principal Investigator for more than 20 multicenter clinical trials. He currently serves as the Vice Chair of the Diabetic Retinopathy Clinical Research Network.

Dr. MacCumber lives in Chicago with his wife, Judith. They enjoy visiting their daughter who received a Fulbright Scholarship and resides in Paris, France. Their twin sons attend Northwestern University and University of Chicago respectively. In his free time, Dr. MacCumber loves spending as much time as he can with his family and enjoys playing tennis, biking, hiking, and skiing.

Undergraduate

AB - Princeton University

Medical School

MD - Johns Hopkins University School of Medicine PhD - The Johns Hopkins University

School of Medicine

Residency

The Wilmer Ophthalmological Institute

Fellowships

Duke University School of Medicine Heed Foundation Ronald G. Michels Foundation

Chief Residency

The Wilmer Ophthalmological Institute

Leadership Positions

Vice Chair, DRCR Retina Network Past Chairman, AAO Council Board of Trustees, AAO Past Board of Directors, ASRS Past Delegate, AMA Examiner, ABO Past President, COS

Board of Directors, ISPB

Awards

Senior Achievement Award, AAO Senior Honor Award, ASRS Secretariat Awards (2), AAO Best Doctors in America



Years post fellowship: 27 Years in Illinois Retina: 26

Undergraduate

BA - Washington University

Medical School MD - Georgetown University School of Medicine

Residency Washington University School of Medicine

Fellowship Medical College of Wisconsin

Leadership Positions

Past-president, ASRS and the Foundation of the ASRS

Co-Founder, The Winning Pitch Challenge, ASRS PAT Survey and ASRS History of Retina Initiative

Co-Founder Vestrum Health, Covalent Medical, and Clarus Acuity Group

Board of Directors, IL Society for Prevention of Blindness and Notal Vision, Inc

Awards

ASRS Sr. Honor Award AAO Achievement Award Charter Inductee, Retina Hall of Fame Ocular Surgery News Retina 150 Innovators in Retina Best Doctors in America Illinois Top Doctors



Years post fellowship: 26 Years in Illinois Retina: 26

John S. Pollack, MD

Assistant Professor of Ophthalmology

John Pollack, MD has been with Illinois Retina Associates and Rush University Medical Center since 1997. A recognized leader and innovator in the field of retina, he has delivered over 200 scientific presentations across the globe and has published over 60 scientific papers and book chapters.

Dr. Pollack's passion for ophthalmology was inspired by his father, who was also an ophthalmologist. He received his undergraduate degree at Washington University in St. Louis and his M.D. at Georgetown University. He completed his ophthalmology residency at Washington University and his retina fellowship at the Medical College of Wisconsin, in Milwaukee.

Dr. Pollack has held a number of national leadership positions and received many honors. He is Past- President of both the American Society of Retina Specialists (ASRS), the largest organization of retina specialists in the world, and the Foundation of the ASRS, which supports patients and the retina community through education, awareness, and fundraising. Dr. Pollack serves on the Board of Directors of multiple non-profit and commercial medical entities, is co-founding Editor of the widely referenced annual ASRS Preferences and Trends Survey and is co-founder of 'The Winning Pitch Challenge', a medical competition that accelerates innovation in ophthalmology.

Dr. Pollack is recipient of the ASRS Senior Honor Award, the AAO Achievement Award, and has been identified by Ocular Surgery News as one of "OSN Retina 150," a select group of retina specialists identified by the publication's editors and publisher as leading innovators in the field of medical and surgical retina. He has been listed in "Best Doctors in America", "Guide to America's Top Ophthalmologists", and "IL Top Doctors" for many years. In 2017, Dr. Pollack became a Charter Inductee into the Retina Hall of Fame, in recognition of exceptional lifetime achievements and contributions to the field of retina.

Dr. Pollack's research interests include retinal cell therapy, retinitis pigmentosa, MacTel, macular degeneration, diabetic retinopathy, retinal vein occlusion, and epiretinal membranes. He has served as chairman, principle investigator, or co-investigator in over 20 major national research studies, and is an advisor to pharma, biotech and device companies seeking to develop more effective retina therapies.

In their spare time, Dr. Pollack, his wife Susan, and their three children share an enthusiasm for fishing, skiing, and travel.

Sohail J. Hasan, MD, PhD, FRCSC

Assistant Professor of Ophthalmology

Sohail J. Hasan, MD, PhD, FACS, FRCSC, is a renowned vitreoretinal specialist who has received recognition for his clinical and surgical skills and innovative clinical research in the US and Canada. He holds certifications from the American Board of Ophthalmology, American College of Surgeons, and Royal College of Physicians and Surgeons of Canada. Dr. Hasan's passion for vision and the eye started at a young age, as evidenced by his first place win in the Los Angeles County Science Fair with his project "The Electric Eye."

Dr. Hasan completed his undergraduate degree in psychology and pursued vision research at Dalhousie University in Nova Scotia. He then earned a PhD in neuroscience at the University of British Columbia and continued his pioneering research in spinal cord regeneration as a post-doctoral fellow at the University of Zürich's Brain Research Institute. He earned his medical degree with honors and completed his residency at the University of Toronto, where he served as chief resident. He later completed a fellowship in retinal surgery at Rush University Medical Center.

Dr. Hasan has published numerous articles and abstracts in leading academic journals and written chapters for prestigious ophthalmology textbooks. He holds several leadership positions within national and international ophthalmology associations, including the American Academy of Ophthalmology (AAO). He has received multiple awards and honors for his contributions to the field, including an achievement award, lifelong education award, and physician recognition award from the AAO and the American Medical Association. He has also earned two highly coveted Secretariat awards from the AAO, one for his exceptional leadership and dedication to high-quality patient care in Illinois, and another for his contributions to teaching.

Dr. Hasan is a strong and effective political advocate for his patients and profession. He frequently travels to the nation's capital to participate in important discussions with legislators regarding medical policies. With his prominence in legislative circles, Dr. Hasan helps establish strong relationships between Congressional Advocates and key members of Congress.

Dr. Hasan is on staff at several Chicago-area hospitals and sees patients at Illinois Retina's Orland Park and Flossmoor locations. Outside of work, he enjoys traveling with his wife and daughter. His linguistic proficiency is noteworthy as he is fluent in several languages. Additionally, he is a semi-professional photographer. He and his daughter are also keen practitioners and instructors of Shotokan karate. He holds a black belt in the discipline and regularly judges at tournaments.

Undergraduate

B.Sc. - Dalhousie University

Medical School

MD - University of Toronto School of Medicine

Residency

University of Toronto School of Medicine

Chief Residency

University of Toronto School of Medicine

Fellowships

Post-doc - University of Zurich, Switzerland

Retina - Rush University School of Medicine

Leadership Positions

Board of Directors, Illinois Society of Eye Physicians & Surgeons (ISEPS) President, ISEPS

Awards

Michael Shea Award for Research Sigmund Vail Award for Surgery



Years post fellowship: 18 Years in Illinois Retina: 18

Medical School

MD - University of Cologne, Germany

Residency University of Chicago

Chief Residency University of Chicago

Fellowship Kresge Eye Institute

Leadership Positions

Board of Directors, American Society of Retina Specialists (ASRS)

International Course Director, Retinaws Video Symposium Series

Director, ChannelR Website

Board of Directors and Officer, Retina Word Congress

Organizing Committee, FLORetina Chief Medical Officer, Ophthotech

Awards

Albert M. Potts Award for Research Beem Fisher Award of the COS Ronald G. Michels Fellowship Award Senior Honor Award, ASRS Achievement Award AAO Best Doctors in America



Years in Illinois Retina: 18 Previous Employment: Univ. of Chicago (2003-2005)

Kourous A. Rezaei, MD Associate Professor of Ophthalmology Director, Retinal-Vitreous Fellowship

Kourous A. Rezaei, MD, is an internationally recognized retina specialist with expertise in medical and surgical treatment of vitreoretinal diseases. Dr. Rezaei is a distinguished inductee in the Retina Hall of Fame, he is certified by the American Board of Ophthalmology, and is listed in Illinois Top Doctors.

Dr. Rezaei is the President of the Retina World Congress and is a member of the Board of Directors at EURETINA, the largest retina organization in the world. He is a founding member of FLORetina, one of the largest retina conferences in Europe. He has served on the Board of the American Society of Retina Specialists (ASRS) and is a member of the prestigious Retina Society, Association for Research in Vision and Ophthalmology (ARVO), American Academy of Ophthalmology (AAO), Chicago Ophthalmological Society, American Society of Gene and Cell Therapy, and American Medical Association.

Dr. Rezaei has served as principal/co-investigator in numerous clinical trials, and has been frequently invited to speak in more than 40 countries. He has produced over 200 abstracts, presentations, publications and book chapters; and has served as an editorial board member for Investigative Ophthalmology and Visual Science (IOVS), Retina Times (ASRS), and Retina Today (BMC). Dr. Rezaei has received numerous awards including the University of Chicago's Albert M. Potts Award, Chicago Ophthalmological Society's Beem- Fisher Award, ASRS Senior Honor Award, and AAO Achievement Award; he is also the ARVO Silver Fellow and a Fellow of ASRS.

Dr. Rezaei completed his medical degree at the University of Cologne in Germany, continued his research in cell transplantation for age related macular degeneration at the University of Chicago, where he completed his ophthalmology residency and served as Chief Resident. He performed a vitreoretinal surgery fellowship at the Kresge Eye Institute in Detroit, and received the prestigious Ron G. Michels Fellowship Award, which is given to the most outstanding retina fellows in the country.

Dr. Rezaei became the Director of Vitreoretinal Service and also the Director of Vitreoretinal Fellowship at the University of Chicago. In 2005, he joined Illinois Retina Associates and became Associate Professor of Ophthalmology and Director of the Vitreoretinal Fellowship at the Rush University Medical Center. Dr. Rezaei is Director of Retina Center in Munster and is involved in teaching at the Rush University Medical Center.

Dr. Rezaei and his wife enjoy spending time with their two sons watching them play baseball and rugby; he also enjoys running, and watching Formula One racing. Dr. Rezaei is fluent in English, German, and Persian.

Zac B. Ravage, MD

Assistant Professor of Ophthalmology

Zac B. Ravage, MD, is an expert in the medical and surgical treatment of retinal disease and injury, with particular expertise in retinal detachment, diabetic retinopathy, age-related macular degeneration, epiretinal membranes, macular holes, and central serous chorioretinopathy. He is an Assistant Professor of Ophthalmology at Rush University Medical Center, in Chicago; and joined Illinois Retina Associates, in 2008.

A native of New York, Dr. Ravage knew he wanted to be a doctor from an early age. He graduated from the University of Michigan, with a degree in biology and cultural anthropology, providing him a well-rounded foundation for becoming a physician.

Dr. Ravage earned his medical degree from Tel Aviv University, in Israel. He performed an ophthalmology residency at Case Medical Center in Cleveland, OH, and completed a fellowship in vitreo-retinal medicine and surgery, at Illinois Retina Associates and Rush University Medical Center. He is certified by the American Board of Ophthalmology.

Passionate about research since his college years, Dr. Ravage has been involved in numerous clinical trials, including several comparing treatments for macular degeneration and diabetic retinopathy. Dr. Ravage has written several articles that were published in peer reviewed journals, and has made presentations at international retina conferences. Dr. Ravage is a member of the American Academy of Ophthalmology, the American Society of Retina Specialists, the Illinois Society of Eye Physicians and Surgeons, and the Chicago Ophthalmological Society.

Dr. Ravage's background in cultural anthropology led him to pursue an interest in international medicine. He has traveled overseas to remote regions of the Himalayas, where he volunteered as both an ophthalmologist and clinical instructor.

A sports enthusiast, he follows professional and college teams, especially those from his alma mater, the University of Michigan. He is an avid runner and participates in marathons; and is also a music aficionado and enjoys Chicago jazz. When he's not seeing patients, Dr. Ravage enjoys spending time with his wife, who is a pediatrician, and their two children.

Undergraduate

BS - University of Michigan

Medical School

MD - Sackler School of Medicine, New York/Tel Aviv

Residency

Case Western Reserve University

Fellowship

Rush University School of Medicine

Leadership Positions

Team Physician, Chicago White Sox Team Physician, Chicago Bulls



Years post fellowship: 15 Years in Illinois Retina: 15

Undergraduate

BS - Washington University

Medical School

MD - University of Oklahoma College of Medicine

Residency

Tufts-New England Eye Center

Fellowship

Rush University School of Medicine

Leadership Positions

Director, Retina Section, Rush University School of Medicine Director, Marketing & Social Media Illinois Retina Associates

Awards

OKAP Award - Tufts University



Years post fellowship: 12 Years in Illinois Retina: 10 Previous Employ: Ret. Assoc., S.C. (2011-2013)

Vivek Chaturvedi, MD

Assistant Professor of Ophthalmology Section Director, Retinal-Vitreous Surgery & Diseases

Vivek Chaturvedi, MD, is an American Board of Ophthalmology certified ophthalmologist specializing in medical and surgical treatment of retina and macular diseases.

He is a native of Fargo, North Dakota, and a graduate of Washington University in St. Louis, where he double majored in philosophy and biology. Dr. Chaturvedi wrote his philosophy thesis about peripheral vision and consciousness, and earned the summa cum laude designation.

Dr. Chaturvedi completed his medical training at the University of Oklahoma College of Medicine, where he graduated Alpha Omega Alpha. After completing an ophthalmology residency at Tufts-New England Eye Center, in Boston, he performed a vitreo-retinal fellowship at Illinois Retina Associates and Rush University Medical Center, in Chicago.

Dr. Chaturvedi is a member of the American Academy of Ophthalmology and American Society of Retina Specialists, and he serves on several local and national committees, where he primarily shares his skills and interest in marketing and communications, including: Communications Chair for Illinois Retina, Communications Committee for the ASRS, Board Member for Chicago Ophthalmology Society.

Dr. Chaturvedi is committed to the education of future ophthalmologists and is the Section Director of Retina for the Department of Ophthalmology at Rush Medical Center. He was recognized with Teaching Awards, by the residents, in 2019 & 2022.

Dr. Chaturvedi is committed to furthering developments within the retina specialty, and ophthalmology as a whole; he has been the principal and sub-investigator for multiple clinical trials as well as co-authored multiple studies that have been presented at local and national meetings. Dr. Chaturvedi is on staff at several area hospitals and sees patients at Illinois Retina's Loop and Lincoln Park locations.

Dr. Chaturvedi is an avid sports fan, and supports many Chicago professional teams; however, his greatest passion is for Oklahoma Sooner football, and he is hoping for another National Championship or Heisman Trophy every season!

In addition to sports, Dr. Chaturvedi enjoys cooking and writing poetry. His creative works have been published on several websites, as well as in print publications. He and his wife, Mahima Keswani, MD, a pediatric nephrologist at Lurie Children's Hospital, reside in Chicago.

Naryan "Ryan" Sabherwal, MD

Assistant Professor of Ophthalmology Section Director, Retinal-Vitreous Surgery & Diseases

Ryan Sabherwal, MD, is a board-certified ophthalmologist specializing in the medical and surgical treatment of retina and macular diseses. He joined Illinois Retina Associates in 2020.

Dr. Sabherwal developed an early respect for the practice of eyecare growing up as the son, grandson and nephew of optometrists and opticians, in Erie, PA. As a frequent witness to the gratitude his father's patients expressed, he became acutely aware of the vital role that vision plays in everyone's life.

Dr. Sabherwal graduated summa cum laude with a degree in Health Sciences and a minor in Biology from James Madison University, and then attended Drexel University College of Medicine, in Philadelphia, where he was inducted into the AOA honors society. Dr. Sabherwal did his residency at Loyola University Medical Center, where he was elected Chief Resident, in his final year. He followed that up with a vitreo-retinal surgery fellowship at Rush University and Illinois Retina Associates. He is certified by the American Board of Ophthalmology.

Dr. Sabherwal is an Assistant Professor of Ophthalmology at Rush University Medical Center, and has an interest in clinical education of medical students, residents, and fellows. As Chief Resident at Loyola, he worked with the faculty to change the didactic curriculum to include more interactive learning sessions. He also has an interest in global health and treating underserved populations. He has traveled to Cameroon, Africa, on a medical mission trip, and hopes to make international work a consistent part of his career. Dr. Sabherwal has co-authored multiple peer reviewed research articles, and has given presentations at national symposia including the Association for Research in Vision and Ophthalmology meeting, the American Society of Retina Specialists (ASRS) meeting, and the Loyola Alumni Day conference, where he was awarded the Robert Barnes award for best presentation. He is a member of several specialty medical organizations including ASRS, the American Academy of Ophthalmology, and the Chicago Ophthalmologic Society.

In his free time, Dr. Sabherwal enjoys exploring the city's restaurants, museums and parks, with his wife, two young sons, and his dog. He was an avid tennis player in high school and college and still enjoys playing; and since moving to Chicago he has taken up axe-throwing, as a hobby.

Undergraduate

BS - James Madison University

Medical School

MD - Drexel University College of Medicine

Residency

Loyola University Medical Center

Fellowship

Rush University School of Medicine

Leadership Positions

Chief Resident - Loyola University Medical Center

Board member- Illinois Society for Eye Physicians and Surgeons

Awards

Robert J Barnes Award for Research Presentation at Loyola Alumni Day

OKAP Award- Loyola University Medical Center

"Rookie of the Year" award for Resident Education- Rush University Medical Center



Years post fellowship: 4 Years in Illinois Retina: 4

Undergraduate

BS - Johns Hopkins University

Medical School MD - Harvard Medical School

Residency

University of Southern California Roski Eye Institute

Fellowship

Associated Retinal Consultants, William Beaumont Hospital

Awards

The Retina Society Advocacy Ambassador Award

Dr. John D. and Mrs. Gretchen H. Bullock Ophthalmology Award



Years post fellowship: 3 Years in Illinois Retina: 3

Ramon Lee, MD

Assistant Professor of Ophthalmology

Ramon Lee, MD, specializes in the medical and surgical treatment of retina and macular diseases. His areas of expertise include treatment of age-related macular degeneration, diabetic retinopathy, retinal tears, retinal detachments, epiretinal membranes, macular holes and secondary intraocular lenses. He is an Assistant Professor of Ophthalmology at Rush University Medical Center, in Chicago, and he joined Illinois Retina Associates, in 2021. Dr. Lee is certified by the American Board of Ophthalmology. He is fluent in English and Cantonese.

After earning his undergraduate degree in neuroscience from Johns Hopkins University, Dr. Lee went on to earn his medical degree from Harvard Medical School. Following an internship at MacNeal Hospital and an ophthalmology residency at the University of Southern California and Los Angeles County Medical Center, Dr. Lee was chosen for a prestigious vitreoretinal surgery fellowship at Associated Retinal Consultants and William Beaumont Hospital in Royal Oak, Michigan, which is nationally known for training surgeons of the highest caliber.

Throughout his career, Dr. Lee has been recognized by his colleagues and national institutions. He has published numerous peer reviewed articles in specialty medical journals such as Ophthalmology, The American Journal of Ophthalmology, and Retina. Dr. Lee has presented his research to fellow ophthalmologists at the annual meetings of the American Academy of Ophthalmology and the American Society of Retinal Specialists, and has been granted the Retina Society Advocacy Ambassador Award and the Dr. John D. and Mrs. Gretchen H. Bullock Ophthalmology Award from Harvard Medical School.

Dr. Lee is a participating investigator in numerous clinical research trials including studies of neovascular age-related macular degeneration, intravitreal injections in patients with age-related macular degeneration, and several studies evaluating treatments for macular edema. He is a member of the American Academy of Ophthalmology, the American Society of Retinal Specialists, the Association for Research in Vision and Ophthalmology, Chicago Ophthalmological Society, and the American Medical Association.

Born and raised in Chicago, Dr. Lee appreciates the opportunity to provide care to patients in and around his hometown. When he's not seeing patients, Dr. Lee enjoys spending time with his wife, who is a pediatric dentist. Some of his hobbies and interests include trying new restaurants, cooking for friends and family, traveling, and cheering for the Chicago Bulls.

Veena Raiji, MD, MPH Assistant Professor of Ophthalmology Section Director of Uveitis and Inflammatory Disease

Veena Raiji, MD, MPH, specializes in diseases of the retina and macula, as well as ocular inflammatory disease. She joined Illinois Retina Associates in 2021, and is a Clinical Assistant Professor and Director of Uveitis and Inflammatory Disease Section at the Department of Ophthalmology at Rush University Medical Center. Dr. Raiji is certified by the American Board of Ophthalmology. She is fluent in English and Spanish.

After completing her undergraduate studies, Dr. Raiji earned a Master of Public Health degree from the University of Michigan's School of Public Health, and then attained her medical degree from Michigan State University. Following medical school, Dr. Raiji completed an ophthalmology residency at George Washington University, where she served as chief resident. She completed her fellowship training at the University of Southern California's prestigious Doheny Eye Institute, in Los Angeles. Dr. Raiji was the recipient of the Dr. Sacit Eren Award for Bedside Manner and Compassion from Harbor Hospital, in Baltimore, Maryland.

Dr. Raiji enjoys collaborating with her colleagues and attending national and international ophthalmology conferences. She has co-authored numerous medical journal articles and textbook chapters on topics such as hypertensive retinopathy, infectious scleritis, sympathetic uveitis, and non-neovascular age related macular degeneration. She frequently presents her research at the annual meeting of the Association for Research in Vision and Ophthalmology. Dr. Raiji has been awarded several research grants including one from the Illinois Society for the Prevention of Blindness that supports the study of ocular and non-ocular sarcoidosis. Dr. Raiji is a member of the American Uveitis Society, the American Society of Retina Specialists, and the American Academy of Ophthalmology.

Dr. Raiji has provided ophthalmic care to underserved populations internationally, as a volunteer at the Lions Eye Hospital-Department of Ophthalmology, in Blantyre, Malawi and at the Tarabai Desai Eye Hospital, in Jodhpur, India. These outreach efforts have included screening patients for eye disease, assisting in pediatric and adult cataract surgery, and attending and giving lectures to local students and residents.

When Dr. Raiji is not caring for patients, she enjoys running, practicing hot yoga, reading historical fiction, traveling and spending time with her husband and two children.

Undergraduate

BS - Michigan State University

Medical School MD - Michigan State University Residency

George Washington University

Fellowship

University of Southern California Doheny Eye Institute

- Leadership Positions Chief Resident - GWU
 - Examiner and Exam Question Writer, ABO

AAO Communications Sub-Committee Member

Director, Uveitis Section-RUMC

Board of Directors, American Diabetes Association

Board of Directors, Kalapriya Foundation

Board of Directors, Illinois Prison Project

Awards

ARVO Travel Grant

Dr. Sacit Eren Award for Bedside Manner and Compassion-Harbor Hospital



Years post fellowship: 11 Years in Illinois Retina: 3 Undergraduate BS - The University of Chicago Medical School MD - Rutgers Robert Wood Johnson Medical School

Residency Duke University Eye Center

Chief Residency Duke University Eye Center

Fellowship Duke University Eye Center

Awards

Master Contributor Award, Journal of Vitreoretinal Disease

Golden Apple Teaching Award, Duke University Eye Center



Years post fellowship: 2 Years in Illinois Retina: 2

Henry Feng, MD

Assistant Professor of Ophthalmology

Henry Feng, M.D. specializes in the medical and surgical treatment of conditions involving the retina, vitreous, and macula. He is an expert in managing the full spectrum of vitreoretinal diseases, including retinal detachment, retinal holes/tears, macular degeneration, diabetic retinopathy, retinal vascular occlusion, epiretinal membrane, vitreomacular traction syndrome, macular hole, dislocated intraocular lens, as well as other rare and complex retinal conditions. He joined Illinois Retina Associates in August 2022 and is an Assistant Professor of Ophthalmology at Rush University Medical Center.

Dr. Feng graduated from the University of Chicago with academic honors in biochemistry, chemistry, and biology, where he also served as a global health volunteer for several charity hospitals in India. He then earned his medical degree from Rutgers Robert Wood Johnson Medical School in New Jersey and developed his passion for ophthalmology and retinal disease through a summer research fellowship. Dr. Feng was inducted into the AOA honor society and went on to complete his ophthalmology residency, chief residency, and vitreoretinal surgery fellowship at the prestigious Duke University Eye Center in Durham, North Carolina.

As a physician-scientist, Dr. Feng combines his clinical and research expertise to deliver the highest quality medical and surgical retinal treatments to patients in a personalized and compassionate manner. His experience is highlighted by over 20 scientific publications in leading academic journals and numerous presentations at national meetings and professional ophthalmology societies. Dr. Feng is involved in multiple clinical trials and has earned a number of awards throughout his career, including the Master Contributor Award from the Journal of Vitreoretinal Disease, which represents the highest level of achievement within the official journal of the American Society of Retina Specialists. He is also an editor for All About Your Eyes, a concise reference book aimed at helping patients better understand their eye condition. Dr. Feng sees patients at Illinois Retina's Rush, Hinsdale, Oak Park, and Harvey office locations.

Outside the clinical setting, Dr. Feng enjoys tennis, swimming, and cooking a variety of cuisines ranging from Chinese food to guacamole. He also enjoys spending time with his wife, two children, and golden-lab retriever.

Samuel Minaker, MD, MSc Assistant Professor of Ophthalmology

Samuel (Sam) A. Minaker, MD, MSc is board-certified in both the United States and Canada in Ophthalmology and specializes in the medical and surgical treatment of diseases affecting the retina, vitreous and macula. He serves as an Assistant Professor of Ophthalmology at Rush University Medical Center.

He completed a Bachelor of Science in Chemistry with First-Class Honors at St. Francis Xavier University. His honors thesis was focused on the Synthesis of N-Hetrocyclic Carbene Diadducts & Diruthenium (II,III) Tetraacetate Based Polymers. He then completed a Master of Science in Chemistry at the University of Victoria where his thesis focused on the Development of New Supramolecular Tools for Studying the Histone Code. This research led to a US Patent for a Method and Array for Identifying Histone-Code-Related Analytes, which he is co-inventor of. He then went on to pursue medicine at the University of British Columbia. His research in medical school prospectively studied the use of transabdominal ultrasound by General Surgeons to improve the safety of laparoscopic port placement. During medical school he took on numerous leadership roles including representing the Vancouver Island Medical Program distributed site on the Medical Undergraduate Student Society, lobbying the provincial government to implement a more transparent and independent drug assessment procedure in British Columbia, and organizing events at the Canadian Cancer Society Relay for Life in Victoria. He then went on to pursue Ophthalmology Residency at the University of Toronto where he won awards for his clinical performance including the Chan Award for Excellence in Pediatric Ophthalmology, the Gordon C. Kelly award for Excellence as a Junior Resident in Ophthalmology and was elected co-chief resident. He completed his vitreoretinal surgery fellowship at Rush University Medical Center and Illinois Retina Associates.

His research interests include assessing the color performance of the NGENUITY 3D visualization system, systematic reviews and meta-analyses of cytokines in various retinal diseases and is co-investigator on several ongoing trials at Illinois Retina Associates. He has over 30 national and international conference presentations including podium and poster presentations at the ASRS, EURETINA, ARVO and COS meetings. Additionally, he has 18 peer reviewed publications. He has also authored a Retina book chapter in the Toronto guide to clinical ophthalmology: for general physicians, residents and medical students, which is part of the University of Toronto Medical School curriculum. He serves as a reviewer for the Journal of Vitreoretinal Diseases and was recognized with a Distinguished Contributor Award for his service.

He was born and raised in Kitimat a town of 5,000 in northern British Columbia (about a 4-hour drive from Hyder Alaska) and has lived in communities as small as 200 only accessible by boat or helicopter.

In his free time, he enjoys golfing, weight-lifting and travel.

Undergraduate

BS (Chemistry) First Class Honors St. Francis Xavier University, Antigonish, Nova Scotia

Graduate School

MSc (Chemistry)- University of Victoria, British Columbia

Medical School

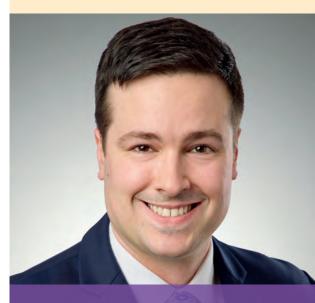
MD - University of British Columbia, Vancouver, British Columbia

Residency

University of Toronto, Toronto, Ontario

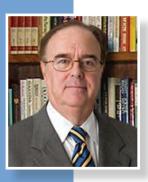
Fellowship

Rush University School of Medicine



Years post fellowship: 1 Years in Illinois Retina: 1

Emeritus Faculty



David Orth

Leadership Positions

Medical Director, Irwin Retina Center Past President, Macula Society Past President, Chicago Ophthalmological Society Editorial Board, Retina Team Physician, Chicago White Sox Chairman Board of Directors, Ingalls Health System Chairman, Ingalls Foundation Board of Trustees, University of Chicago

Awards

Senior Honor Award, ASRS American Publishers Association Award Top 500 Doctors in Chicago Best Doctors in America



Timothy Flood, MD

Awards Honor Award, AAO



Kirk Packo, MD

Leadership Positions

- Past President, American Society of Retina Specialists (ASRS)
- Past President, Chicago Ophthalmological Society

Board, Ophth. Mutual Insurance (OMIC) Co-Founder, ASRS PAT Survey Founder & 1st Editor, *The Retina Times*

Awards

The Packo Service Award, ASRS Lifetime Achievement Award, AAO Senior Honor Award, ASRS ASRS Founders Lecture Award Relja Živojnović Lifetime Achievement Mediterranean Retina Society, Lifetime Achievement Teacher of the Year, Chicago Curriculum Golden Apple, Rush & University of Illinois Crystal Apple, ASRS Best Doctors in America Best Doctors in Chicago



Serge De Bustros, MD

Leadership Positions

Past Director, Wilmer Eye Trauma Center Advisory Board, National Eye Trauma System

Awards

Achievement Award, AAO



Pauline Merrill

Leadership Positions

Board Member, Ophthalmic Mutual Insurance Company Founding Board Member, Women in Retina Examiner, American Board of Ophthalmology

Awards

Senior Honor Award, ASRS Achievement Award, AAO Best Doctors in America

Dr. Sabherwal performing a vitrectomy with membrane peel using the NGenuity viewing system. Dr. Packo is thus able to supervise without sitting at the microscope.

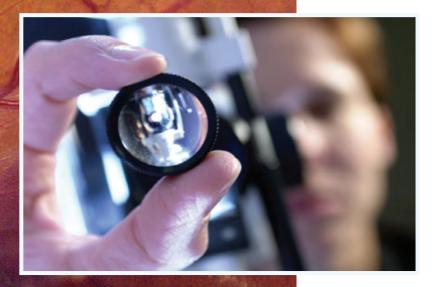
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15

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NERGINE

Medical Retina Training



The fellow is exposed to one of the busiest clinics in the management of retinal & macular disease in the Midwest.

Intravitreal injections of all available brand and off-label drugs are utilized. The fellow also gradually obtains experience in the fine points of panretinal photocoagulation, grid photocoagulation, focal photocoagulation, and photodynamic therapy.

The proper use and ability to correctly evaluate OCTs, fluorescein angiography, RPE autofluorescence, and ICG angiography is critical to competency in medical retinal diseases and the fellow is expected to gain proficiency of these modalities.

All fluorescein angiograms are read by the staff faculty. B-Scan ultrasonography is also utilized as needed. Specialty imaging such as Optos fundus photography and angiography, Nidek MP1 microperimetry, multifocal ERG and full field ERG, EOG, and dark adaptometry is also performed. Fellows will be expected to become knowledgeable/proficient in the following medical retinal skills:

1. Clinical Skills

Indirect Ophthalmoscopy Scleral Depression Fundus Contact Lenses 78D and 90D Biomicrosopy Slit Lamp Examination Fluorescein Angioscopy Ophthalmodynomometry

2. Diagnostic Tools

- Angiography
 - Digital Fluorescein and ICG
 - Wide field and standard
- Ultrasonography
 - Dynamic B-Scan Ultrasound
 - Exposure to 3D Ultrasound
 High Frequency Ultrasound

Autofluorescence of RPE

Optical Coherence Tomography

- Maps & Line Scans
- OCT-angiography
- ERG Full field & Multifocal Electro-oculography (EOG) Dark Adaptometry Nidek Microperimetry Color vision analysis
- 3. Diabetic Retinopathy & macular edema
- Classification and management Role of Anti-VEGF therapy Role of Steroid therapy Role of Laser therapy Management of rubeosis and NV
- 4. Various laser techniques
 Standard slit lamp focal and PRP
 Pascal pattern laser
 Laser indirect ophthalmoscope
- 5. Age Related Macular Degeneration
 Classification and management
 Role of Anti-VEGF therapy
 Role of Steroid therapy
 Role of Laser therapy
 Pneumatic blood displacement
- 5. Retinal Vascular Occlusive Disease
 Classification and management
 Role of Anti-VEGF therapy
 Role of Steroid therapy
 Role of Laser therapy
 Management of rubeosis and NV

6. Peripheral Retina Disease

Classification and management Diagnostic Skills

- Indirect Ophthalmoscopy with Scleral Depression
- Contact Lens Evaluation of Peripheral Retina
 - 1. Goldmann 3 Mirror Lens
 - 2. Super Quad 160 Wide Lens
 - 3. 78D and 90D biomicroscopy

Retinal Breaks

- Recognition

- Therapy with cryopexy/laser Peripheral neovascularization

- Recognition & Differential
- Therapy with cryopexy/laserRole of angioscopy
- 7. Uveitis

Classification and management Diagnostic blood test work-up Specialty history assessment Role of PCR testing Immune suppression management

8. Pediatric Retina

Retinopathy of Prematurity

- Screening Programs
- Classification
- Management with laser

- Management with Anti-VEGF Toxocariasis

Persistent Fetal Vasculature FEVR

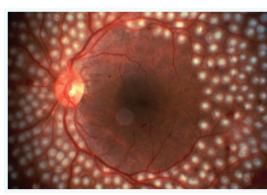
Norrie's Disease Juvenile Retinoschisis

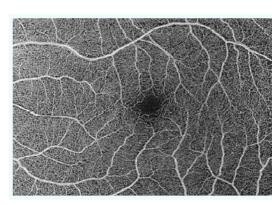
8. Ocular Oncology

Recognition and classification Role of imaging and ultrasound Therapy with I¹²⁵ plaque Therapy with thermotherapy Therapy with enucleation Role of Laser therapy Role of fine needle biopsy Understanding systemic workup

9. Hereditary Diseases Recognition and classification History taking & Pedigree Role of electrophysiology Management & Low Vision Aids Fellows are exposed to specifics of office management including encounter coding, referral management, reporting, and patient discussions. The economic issues related to anti-VEGF therapy are learned and contrasted.

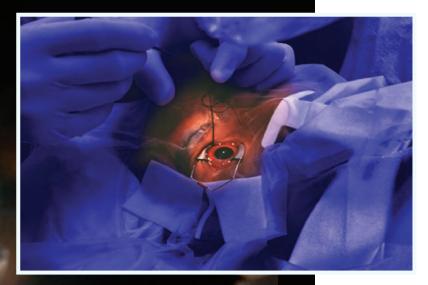






The diversity of management by the various Illinois Retina faculty members adds to the power of medical retina education. Fellows contrast various techniques, including management decisions and algorithms, intraocular injection techniques, and use of diagnostic resources throughout the two years.

Surgical Retina Training



Proper training in the management of retinal and vitreous diseases mandates the necessity for hands-on surgical experience. The fellow is expected to actively participate in the surgical management of patients and not merely to be an observer throughout the entire fellowship.

It is expected that by the end of the fellowship, the trainee should feel comfortable in the actual management of the most complicated vitreous cases.

Learning retinal surgery is not purely in the operating room. While the number of cases is important, equally as vital is the preoperative assessment of the patient in the office and following their progress and needs in the office Post-Op. The fellowship is carefully designed to allow fellows to learn surgery in both the OR and the office.

During each rotation of the fellowship, fellows will average about one to three days a week in the OR. This equates to an exposure of about 4-8 cases per week. This number slowly increases over the course of the fellowship. As typical nationally, the majority of the cases are vitrectomies with or without combined scleral buckles. Scleral buckling is employed throughout the practice along with pneumatic retinopexy. The fellow is expected to become proficient in all of these techniques. Because of the increased rarity of buckles, fellows are notified of all scheduled buckles to give the opportunity of altering the schedule to allow a fellow to participate.

The fellow begins his/her training as an observer for the first four to six weeks, handling only the initial and ending portions of the case. The performance of the vitrectomy portion then follows, with observation of all surface retinal work continuing for the first two - three months. There is then a graded increase in the attention to the surface retinal work and membrane removal. Complicated procedures such as retinotomies, liquid fluorocarbons, silicone oil, etc., take place in a graded fashion. This philosophy is a guideline and the fellow may progress at a faster or slower rate at the faculty's discretion.

All surgery is done under the supervision of a faculty member as it is felt that the fellow should avail himself/ herself of the advice of the faculty member at all times. Fellows never operate solely with other fellows or without an attending. One strong asset of the fellowship is the variety of surgical approaches demonstrated through participation in cases by ten separate surgeons, each using slightly or occasionally markedly varied surgical techniques. The fellow's ability to function as a primary surgeon throughout the year depends purely on the complexity of the case being done and is no way related to the socio-economic or "insurance" status of the patient. There is no such thing

within our program as an "indigent patient" that is done by the fellow. Patients without insurance, and VIP executives are fit into this philosophy on surgical training with the exact same status. We feel strongly that this is the most ethical way to determine a fellow's role in a surgical case.

The Fellow is expected to keep a surgical notebook to be used to take notes on surgical procedures and also a surgical (and separate laser) log for documenting case numbers. These numbers are documented in MedHub of Rush University for AUPO compliance.

The following is a *partial* snapshot of the surgical fellowship experience:

1. Retinal Detachment

- * Classification: Exudative versus Tractional versus Rhegmatogenous
- * Rhegmatogenous RD -Localization of Retinal Breaks
 - -Drawing of Configuration -Surgical Decision Making

 - a. Pneumatic Retinopexy
 - b. Scleral Buckle
 - c. Vitrectomy
- * Surgical Skills -Pneumatic Retinopexy
 - a. Intraocular Gases
 - ~ Kinetics
 - ~ Complications
 - b. Retinopexy
 - ~ Cryopexy
 - ~ Indirect Laser
 - -Scleral Buckle
 - a. Options for Elements
 - b. Encircling versus Radial
 - c. Drainage vs Non-Drainage
 - d. Cryopexy
 - e. Complications
 - -Vitrectomy
 - a. 3 Port Pars Plana Vitrectomy
 - b. Vitreous Base Dissection
 - c. Scleral Depressed Peripheral Vitreous Shaving
 - d. Air Fluid Exchange
 - e. Endolaser Photocoagulation
 - f. Scleral Depressed Endolaser photocoaulation
- 2. Complicated Retinal Detachment
 - Proliferative Vitreoretinopathy

 Membrane Dissection
 Illumination & Wide Field Viewing
 Use of PFO Silicone Oil Gas
 Role of retinotomy and buckle

- Diabetic Tractional RD

 Dissection techniques
 Role of anti-VEGF and laser
- * Giant Retinal Tear
 -Role of gas vs. silicone
 -Role of buckle
 -Management of fellow eye

3. Macular Surgery

- Macular Hole Surgery
 -ILM peeling techniques & stains
 -Gas tamponades
- * Epiretinal Membrane & VMT -Peeling techniques & stains

4. Endophthalmitis

- * Office based management
- * Role of vitrectomy

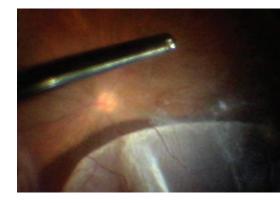
5. Management of Lens Complications

- * Retained Lens Fragments
- * Dislocated & Subluxated IOL

6. Vitrectomy Fluidics & Techniques

- * 25G+, 27G and high-speed cutters
- * Chandelier Lights







https://eyetube.net/series/retinaws



https://www.channelr.net



https://eyetube.net/series/formula-retina



http://channelr.net/6omininretina



http://bmctoday.net/retina360/

Retinal-Vitreous Surgery Cyber-Fellowship



https://vimeo.com/kirkpacko https://vimeo.com/channels/238210



http://www.illinoisretina.com/case-of-the-month/

On-Line Training

The **Internet** is the invention of the Millennium. It has revolutionized our access to information like nothing before. So too medical education is now enriched by this extraordinary tool. Illinois Retina Associates has been one of the world's leaders in on-line retinal surgery education, particularly under the brilliant efforts of fellowship director, Dr. Kourous Rezaei.

Dr. Rezaei is the mastermind of the wildly popular **RETINAWS** series, originally begun as a two day meeting in Chicago by Drs. Rezaei and Packo in 2007. The meeting brought 5 international speakers participating from their home country via video conferencing together with 15 local speakers. The meeting was webcasted live online and simultaneously translated in German, Italian, Japanese and Spanish. Online audience from around the world could actively participate in the meeting and have a discussion with the speakers in their home country moderated through Chicago. The technical tour-de-force brought the World to Chicago and Chicago to the World. But ... the RETINAWS concept was to become even more effective ... Rezaei changed the concept to shorter courses taking place during existing retinal meetings. Since the next *RETINAWS* course held at the ASRS meeting in Maui, HI in 2008, Rezaei has directed and hosted more than 60 courses, in near 30 countries, at major national and international retinal meetings. To date, more than 1,000 video presentations, each with in-depth discussions, are archived and searchable on-line. Journals may give us the science of our craft ... but tools like *RETINAWS* give us the art.

Rezaei has become the Steve Jobs of Retinal Cyber-Education. *RETINAWS* was just the first of many on-line retinal education tools he created and fueled, along with several others by his Illinois Retina partners:

ChannelR:

All the RETINAWS, Formula Retina, and 60 Minutes in Retina video discussion clips are catalogued based on topic as an online video atlas and are housed in ChannelR. It is available to retina specialists around the globe free of charge.

👖 Formula Retina:

A Rezaei creation in conjunction with EyeTube. Rather than a potpourri of surgical videos & discussions, *Formula Retina* focuses on a single medical or surgical topic. Each 30 min segment is discussed by 3 international specialists, moderated by Rezaei, and enhanced with videos and images. Over 250 presentations are on line on over 30 topics.

🚽 60 Minutes in Retina:

This Rezaei product discusses common surgical steps in detail. Topics, like prepping & draping . . . how to induce a PVD . . . trocar removal & closure, are dissected in great detail and reinforced with videos by three specialists moderated by Rezaei. Over 20 hours of valuable material are now on-line. It's amazing to learn how common steps vary from surgeon to surgeon.

🚽 Retina 360:

This on-line videocast is chaired by Drs. Packo and Rezaei and began in 2009. Over 50 videos presented on surgical techniques are archived along with 20 trade journals articles supplement this additional resource.

Retina-Vitreous Surgery Cyber-Fellowship

This Vimeo page was created by Dr. Packo and houses a variety of short and in-depth surgical videos on retinal surgery. Topics like retinal history and other novel videos can be found.

Illinois Retina Case of the Month

This resource is directed by Dr. Vivek Chaturvedi and highlights an interesting medical or surgical case archived at the Illinois Retina website. Distributed to local eye doctors each month, it is often contributed to by the retinal fellows.

How do these efforts add to the retinal fellowship? Surgical training builds on other surgeon's learning curves. Amazing resources like RETINAWS and others bring the entire world's ideas, techniques & learning curves to the faculty of Illinois Retina and ... to our fellows. It is a "Ripple Effect" unlike any other!

The world-acclaimed **RETINAWS** series directed by Dr. Kourous Rezaei is begun by a memorable video introduction produced by former retinal fellow, Dr. Renaud Duval

Countries that have hosted RETINAWS courses:

- Abu Dhabi
- Argentina
- Austria
- Belgium
- Brazil
- Canada
- China
- Columbia
- Denmark
- Egypt
- France
- Georgia
- Germany
- Greece
- India
- Indonesia
- Iran
- Italy
- Japan
- Kuwait
- Malta
- MexicoMorocco
- Peru
- Portugal
- Spain
- Opun
- Switzerland
- Turkey
- United Arab Emirates
- United Kingdom
- United States

The number of videos archived on line: The number of individual viewer hits: The educational value to Retina:

1,000 + 4,300,000 + Priceless

Equipment & Facilities

The Illinois Retina offices and operating rooms are outfitted with the finest equipment and facilities available for the care of patients. These facilities are also "real world" in that they expose fellows to the methods of patient care using equipment attainable in future practices, and not exclusively prototypes or overly expensive equipment rarely used in other practices. The following is a *partial* list of equipment utilized:

Surgical Equipment



OR Viewing Systems:

NGenuity 3D Heads-up System Zeiss ReSight 700 (wide-field & macula) Oculus BIOM - disposable & reusable Flat magnifying contact lenses Eckardt keratoprosthesis **Vitrectomy Platform:** Alcon Constellation Vision Systems **DORC EVA System** Gauges: 20, 23, 25, 27; with 10,000 cpm technology Lasers and Retinopexy: Alcon PurePoint laser Lumenis Indirect solid state laser Iridex solid state laser and laser indirect DORC & Frigitronics cryopexy **Microscopes:** Zeiss Lumera 700 with slit lamp illumination Zeiss CS & Zeiss Visulas **Adjuvants:** SF₆ and C₃F₈ gases 1000 cSt and 5000 cSt silicone oils Perfluoro-n-octane Indocyanine green & Tissue Blue ILM stains Triescence vitreous stain Hand Instruments: Alcon DSP disposable forceps, scissors, pics Grieshaber, DORC, Synergetics, and AISCO non-disposable, various **Ocular Oncology:** Iodine¹²⁵ plaque Cryospray Fine needle biopsy Buckles: Labtician silicone tires & bands

Office Equipment

Slit Lamps

Haag-Streit BQ-900 and BM-900 Zeiss model 125 **Optical Coherence Tomography & Related Imaging:** Heidelberg Spectralis OCT Zeiss Cirrus OCT Heidelberg & Optos autofluorescence Heidelberg infrared and red-free imaging Zeiss Plex Elite Swept-Source OCT-Angiography **Photography and Related Angiography:** Zeiss and Topcon digital fundus photography Optos color and ultra wide-field angiography Optos ultra wide-field autofluorescence Topcon ICG angiography Heidelberg simultaneous fluorescein & ICG angiography Zeiss slit lamp photography Canon EOS external photography **Electrophysical & Psychophysical Testing:** Humphries static visual field analysis Goldmann kinetic visual field analysis Dark-adaptometry Electro-oculography Full field electroretinography Multi-focal electroretinography Nidek MP1 microperimetry Color vision: Ishihara, D16 and FM-100 **Biologics & Drugs Utilized:** Bevacizumab (Avastin) Ranibizumab (Lucentis 0.5 & 0.3 mg) Aflibercept (Eylea) Brolicizumab (Beovu) Faricimab-svoa (Vabysmo) Dexamethasone implant (Ozurdex) Fluocinolone Implant (Iluvien) Lasers & Retinopexy: Lumenis 3-wavelength Varia Laser with Indirect Pascal pattern laser Frigitronics cryopexy **Miscellaneous:** Ophthalmodynomometry Indirect ophthalmoscope fluorescein angioscopy 1³ Ultrasonography (standard, A-Scan, high frequency)

Technology

Electronic medical records and video documentation technology are an important part of patient management and training. The following is a list of *partial* information technology and softwares:

IT and EMR Facilities

Electronic Medical Record:

MDIntellesys (MDI) for IRA Offices EPIC for Rush Eye Center and Rush OR HP Touch-screens Merge-OIS digital image management with Symphony interface

Operating Room Video Recording Technology:

Ikegami MKC-704KHD 4K microscope camera Sony external boom camera Sony "birds-eye" operating room camera AVI video camera adapter with XY control Heine video indirect ophthalmoscope Alcon Constellation Video Overlay Kodak dye sublimation video still printer Sony analog dye sublimation still printer OR live surgery webcasting capability ImageStream Medical nStream MPEG2 recorder VBrick digital storage

Wall mount & Boom mount 4K OLED 55" screens

Office Video Recording Technology:

- Ikegami MKC-500HD slit lamp camera Heine video indirect ophthalmoscope Telestar Video & Still capture slit lamp system ImageStream Medical nStream MPEG2 recorder VBrick digital storage
- Exam room live webcasting capability

Computer Technology & Softwares:

- Microsoft PowerPoint
- Apple Keynote
- Apple iMovie
- Adobe CS5 Extended PhotoShop
- Adobe Premier Video Editing
- Adobe AfterEffects
- Womble VideoWizard MPEG2 Editing

Conference Room Technology:

Mediasite Presentation Recorder (for live capture of all PowerPoint presentations) Links to operating room and exam room for presentation and web casting Tandberg telecommunications codec

Fellowship Administration



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Jennifer Puente Retinal Fellowship Coordinator

708.915.6807 jpuente@illinoisretina.com



Robert Lea, Illinois Retina Associates Administrator

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Rush University School of Medicine Department of Ophthalmology

Welcome to Rush University

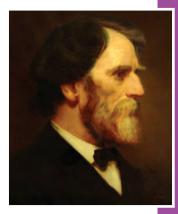
Rush University Medical Center is one of the oldest medical schools in the country with a rich 175 year history. It has grown over the years to command the respect as one of the finest university medical care and training programs in the country as well. The Department of Ophthalmology is proud to include the retinal-vitreous fellowship to its commitment to training excellence.

The Medical Center also offers many highly selective residency and fellowship programs in medical and surgical specialties and subspecialties, including Retina. Rush's unique practitioner-teacher model for health sciences education and research gives students the opportunity to learn from world-renowned instructors who practice what they teach.

The Rush ICARE values of Innovation, Collaboration, Accountability, Respect and Excellence guide our mission and vision in the entire Department of Ophthalmology. The staff, students and volunteers of this department are committed to executing these values with compassion.

The faculty of the Rush Ophthalmology department are a bit different than most classic university programs in that 100% of the faculty are in private practice rather than exclusively university employed. This creates a very interesting mind-set and commitment of these mentors. During the interview process of medical students seeking a residency position as well as of residents seeking a fellowship spot, we often hear from the interviewee that "in the future, they would most likely want a practice style where they can maintain teaching contact with residents and students." Our faculty live that dream. They come to attend because they want to. They prioritize their time to allow them to teach. They are not assigned to the duties by the chairman. Our faculty are some of the most dedicated and experienced specialists that you can find anywhere. This it exactly the kind of mentors that fill the retinal fellowship experience as well. They teach fellows because they choose to do so! And ... they are great at it.





Edward Lorenzo Holmes, MD (1828-1900) 1st Chairman of Rush Department of Ophthalmology



William F. Hughes MD Chairman 1971-1979



William E . Deutsch, MD Chairman 1979-1996



Thomas A. Deutsch, MD Chairman 1996-2004 Medical School Dean 2004-2015 Provost 2015-present

History of Rush University Department of Ophthalmology

Shortly after the great Chicago fire destroyed the Rush medical building in 1871, the campus was rebuilt at its present location on Harrison Street. There, the first department of Ophthalmology & Otolology was established by its first chairman Edward Lorenzo Holmes, MD. Holmes also served as the Chief of the Medical Staff and director of the college until the turn of the century. From 1941-1 971, the leadership of the department was held by the chairs of the Universities of Chicago and later the University of Illinois. During the 1960's, the chairman of ophthalmology was D.V.L.Brown, MD, the father of Steven Brown, MD, the current Rush section director of glaucoma.

Following the reactivation of the Rush University charter in 1972, the first chairman of ophthalmology of the current department was **William Hughes, MD**, the father of W. Frank Hughes, PhD currently professor of anatomy at Rush.

In 1979, William E. Deutsch, MD took over as chairman, leading the department for the next 18 years, when he was succeeded by his son, Thomas A. Deutsch, MD as chairman in 1996. Dr. William Deutsch passed away in 2009 at the age of 82. The Deutsch family tradition was rich in Chicago, spanning three generations of ophthalmologists beginning with William's father, Emil Deutsch, MD, in the 1920's. The Deutsch Family Endowed Chair of Ophthalmology was established in 2002, and is held by Jonathan R, Rubenstein, MD, current Chairman of the Department of Ophthalmology. Dr. Thomas Deutsch stepped down as chair to become the Dean of the Rush University School of Medicine and Senior Vice President of Rush in 2004.

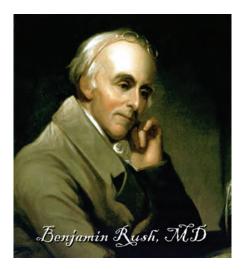
Kirk H. Packo, MD, the Director of the Retina Section at Rush since 1985, was appointed the chair in the summer of 2004. After 16 years of dedicated leadership over forty medical staff and over 20 part time physicians, he stepped down as chair in 2020. Jonathan R Rubenstien was appointed as his successor, and is the current chairman of the department. The department is also lead by Dr Annjali Tanan MD. the Program Director, Jack A. Cohen, MD, the Assistant Program Director, Anjali Hawkins, MD PHD, Associate Chairman for Education, and Mathew W. MacCumber, MD PhD, the Associate Chairman for Research.

The Joseph & Helen Regenstein Eye-Center was established in the first Rush Professional Office building in 1978, and has served as the location of the department of ophthalmology for the past 25 years. With the generous support of the Regenstein Foundation, the department completed a \$4 million expansion project, doubling its space and creating one of the finest academic facilities in the city.

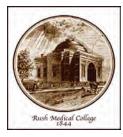
Since 1971, Rush has graduated over sixty ophthalmologists with two residents finishing per year. Since the tenure of Dr. Holmes over 130 years ago, the Rush Department of Ophthalmology remains committed to excellence in the training of its ophthalmologists.

"It's Ophthalmology as It Should Be."

History of Rush Medical College



As the oldest medical school in Chicago, Rush University celebrated its one hundred seventy-fifth anniversary in 2012. Rush Medical College's history represents an extraordinary legacy in the history of American medicine. Young Daniel Brainard, M.D., a New York native educated in Philadelphia, founded Rush not long after his arrival in the village of Chicago. The new College, like its city, gained its charter the first week of March 1837.



First Rush medical school at Grand and Dearborn. destroyed in the great Chicago fire in 1871.

Dr. Brainard named Chicago's first medical college, one of the first west of older eastern schools, in honor of Benjamin Rush, M.D., physician statesman who was a signer of the Declaration of Independence and the first Surgeon General of the US.

During the nineteenth century Rush grew with its dynamic city. In the manner of most medical schools in the 1800's Rush was a proprietary institution owned and operated by by a group of physicians who had joined Dr. Brainard in establishing practices in young Chicago.

By the beginning of our century, Rush was among the nation's largest and most distinguished medical schools. At that time Rush's faculty "proprietors" accepted a proposal to affiliate with the then new University of Chicago. It was a happy development for both institutions. University affiliation brought Rush the research academic connection central to 20th century medical school organization.

However, by World War II, Rush and the University of Chicago realized that their affiliation no longer suited their respective missions. In 1942 Rush developed an affiliation with the University of Illinois' College of Medicine. That College was the Chicago west side medical district neighbor of Presbyterian Hospital, its traditional teaching facility. Central to the new arrangement was the decision to suspend medical education during WW II except for a role at Presbyterian Hospital for clinical care teaching of advanced students.

In the late 1960's, Rush Medical College accepted the proposal of Presbyterian-St. Luke's Hospital to merge its historic charter with the large teaching hospital and to resume accepting students studying for the doctor of medicine. The charter of the medical college was reactivated in 1969 when it became part of the Medical Center, and, in 1971, it reopened with a class of 66 first-year students and 33 third year students. The first-year medical class size reached its projected maximum of 120 in 1976. Rush University is the academic component of Rush University Medical Center. Founded in 1972, the University has expanded from one college and fewer than 100 students to four colleges and over 1,400 students. It includes Rush Medical College, the College of Nursing, the College of Health Sciences, and The Graduate College.

Rush University Historical Contributions:

- 1839 Chicago's first medical dispensary
- 1847 First US use of ether anesthesia
- 1847 AMA founded by N. Davis, MD
- 1847 1st African-American, D.Peck, MD graduates from US medical School
- 1850 1st hysterectomy in Chicago
- 1898 1st surgery for undescended testes
- 1903 1st use of x-rays to treat leukemia
- 1905 1st use of blood cultures
- 1910 Discovery of sickle cell anemia
- 1911 1st description of coronary artery disease
- 1924 G. Dick discovers cause of scarlet fever & develops immunization
- 1934 R. Woodyatt synthesizes insulin

At the turn of the twenty-first century, 163 year old Rush Medical College continues to animate the Rush System for Health as the center for research, education and clinical care implicit in Dr. Brainard's 1837 hopes. During the last quarter century, Rush Medical College has reestablished its place as a locus of medical education.

Rush University Medical Center ranked in the top 20 hospitals Nationally in the 2020-21 U.S.News & World Report's Annual Best Hospitals rankings. Rush was ranked among the best in the country in 11 of 17 specialty categories.



Rush Ophthalmology Program & Retinal Fellowship Interaction

INC

Welcome to the Eye Center at Rush University

Of the seven ophthalmology training programs in Chicago, the program at Rush University is most unique and considered the "jewel" of the Chicago programs. Our residency is a small, boutique program with only two residents per year. The structure of the residency experience is based on a continuity of care principal. As residents pick up patients during the year, they continue to care for that patient for every year of their residency. Although residents rotate through subspecialty "emphasis", they never leave their patients to the care of other residents as they move from rotation to rotation. They become true comprehensive eye doctors from day one.

The faculty of the Eye Center at Rush are some of the most experienced and dedicated mentors to be found anywhere. They develop a strong "family atmosphere" with the residents. The retinal fellows are integral to the program, and take an active role seeing patients with the residents, both in the retina clinic and uveitis clinic. Fellows are credentialed at Rush as full status attendings, with the ability to attest to resident workups and procedures, such as lasers, drug injections among others. The opportunity to mentor residents and medical students greatly strengthens the fellowship by providing a forum for the fellow to teach. There is no better way for fellows to organize their thoughts and own learning than to teach. The retinal surgeries that are generated from the resident population are managed in a combined team approach with the attendingresident-and fellow. The residents typically embrace this approach, rather than view it as dilutional.

Fellows further interact with residents by providing PowerPoint lectures on retinal topics approximately 4 or more times per year. Fellows often engage in clinical research projects, teamed with a resident or medical student. Fellows run the resident retinal journal club twice a year, and take part in the departmental grand rounds presentations. Fellows assist residents on retinal emergencies on call, often overseeing emergent procedures.

Fellows are part of our team. They are part of what makes our "jewel" great.

-Jal A. Col mo



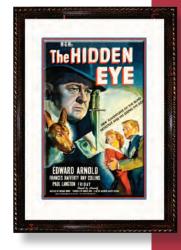
Jack A. Cohen, MD FACS Associate Professor Associate Program Director Section Director, Ocular Oncology



Michael Davis, MD (right), Retinal Fellow 2008 - 2010, mentors senior resident, Vanne Virasch, MD (left)during orbital dissection course.







The Joseph and Helen Regenstein Eye Center at Rush University Medical Center is located on the 9th floor of the Rush Professional Building. In 2005, The Eye Center completed a \$4 million renovation with an additional grant from the Regenstein Foundation. This renovation transformed the center into one of the finest, most beautiful and well equipped eye programs in the Midwest.

The Eye Center has a very unique "Hollywood" motif. "Everyone likes the movies" regardless of age, cultural or socioeconomic status. The movies are visual. Plus, the movies allow viewers to suspend reality for a brief time, often forgetting their worries or problems. This psychologic phenomenon is used as a "waiting room anxiolytic." Patients waiting to see their doctor are often very worried, especially when coming with an eye problem. The decor of the Eye Center provides a whimsical and very effective diversion for our patients. Plus, the staff likes it too . . . The walls are covered with over 250 full size, "one sheet" framed original movie posters. They represent a collection of original posters than spans the entire history of film, from silent movies to the present . . . and each poster has the treat of having the word "EYE" in the title! In the private retina suite, the motif changes to posters all containing the word "CHICAGO" or relating to the Windy City. The optical shop has glasses from famous actors, from Marilyn Monroe to Cary Grant! Silent movie projectors - metal film reels - 3D glasses from the 50's - even a popcorn machine complete the look.

And yes . . . fresh popcorn is made for the faculty and staff for every grand rounds.

The Eve Center has a truly beautiful and magical look, but the look only camouflages its extraordinary state-of-the-art facilities. Many of the exam rooms are outfitted with HD video cameras on both the slit lamps and indirect scopes, allowing masterful viewing for residents and students. Most every top quality diagnostic tool is present and digitized on line, from Heidelberg Spectralis, to Optos angiography, to electrophysiology & microperimetry, to standard and high frequency ultrasonography. Rush boasts a collection of the finest ophthalmic equipment in the city.

The conference room is akin to a the bridge of a Starship. Live links to exam rooms and to the operating room are available. Web casting is available. All lectures and presentations are recorded real time with video capture of the speaker married with the PowerPoint images.

The operating room at Rush is similarly state-of-the-art. New Zeiss Lumera scopes with dual assistant heads, and the latest Alcon Constellation equipment are at its heart. An extraordinary video recording system with 5 different video sources (microscope, microscope with Constellation overlay, indirect ophthalmoscope, external boom camera, and room birds-eye camera) feeding a spectacular dual stream MPEG recorder allow fellows to document surgical procedures perfectly.



"Toto... We're not in Kansas anymore....Welcome to Eyez !"

Locations of Fellowship Training



Rush University Medical Center Chicago, IL - West Side Medical Center



Ingalls Memorial Hospital Harvey, IL

Illinois Retina Associates has twelve offices in the Chicagoland-Northwest Indiana area. The two flagship locations of the practice are located at Ingalls Hospital, in Harvey, IL (approx. 20 miles south of the Chicago Loop) and at Rush University Medical Center (immediately west of the Loop). The practice offices are divided into a north/central group of offices and the south offices. It is not feasible nor efficient for all doctors to go to all offices. Similarly, the fellowship training location is restricted to six of the offices. The training schedule is similarly broken into a "north rotation" and a "south rotation" so as to minimize fellow driving time. Fellows are encouraged to live in the central/downtown/south loop area so as to allow a much quicker reverse commute to most locations.





St. Joseph's Provena Hospital Joliet, IL



Rush Oak Park Hospital Oak Park, IL



St. Joseph's Hospital Chicago, IL - Lincoln Park



Munster Community Hospital Munster, IN



Retinal Research

617

Commitment to Research & Academics

The physicians of Illinois Retina Associates and The Retina Center are focused on advancing the field of retina through research, clinical studies, teaching published works, and the development of new instruments and techniques. This commitment to clinical research has been the backbone of the culture that makes up Illinois Retina Associates and the retina section of Rush University.

Since 1976, the physicians have participated in numerous research studies conducted by the NIH, NEI, FDA and Pharmaceutical Companies. Projects have researched various aspects of Age Related Macular Degeneration, Diabetic Eye Disease and Vascular Occlusion Disease. The Rush retinal faculty not only participate as investigators in trials, but also frequently have participated in the executive committees and the writing teams of many multicenter clinical trials. Fellows are exposed to these activities which in turn strengthens their training, but also helps to mold a behavior that is carried into their future practice as well.

Integral to the concept of retinal research is making a contribution to the knowledge of your craft. Being a contributor may come in many forms: writing a publication or book chapter for the literature; presenting a case or topic at grand rounds; giving a paper at a national meeting; preparing a poster at a society meeting; giving a lecture to students & residents; guiding a doctor-in-training on how to perform a procedure. These are the badges of academics. The Rush faculty have chosen to wear these badges as part of their professional career. Our fellows are expected to wear these badges with us during their training. This is what sets one fellowship program from another.

Make a contribution with us.

Mar N.C





Mathew MacCumber, MD PhD Professor & Associate Chairman for Research



Richard Rothman, MD, Retinal Fellow 1990-91 (center) gathers in front of his 1991 ARVO poster in Sarasota, FL, with co-authors, Rush senior resident Mat Kay, MD (left) and Kirk Packo, MD (right)

Fellows are actively encouraged during their two years to perform clinical and basic science research studies with the faculty, leading to presentation of the material at a major meeting and publication of the material in a peer-reviewed journal. Fellows are given dedicated research time in both 1st and 2nd year to ensure that projects can be completed. The faculty has extensive clinical and surgical experience, allowing large retrospective chart reviews to be performed.

Typically the Fellow should aspire to work on at least 2 projects during the fellowship. In general, the goal of the 1st year is to have something ready to submit for the upcoming Spring ARVO Meeting (deadline is early December of the first year of fellowship). The ARVO Meeting is a meeting the 1st year Fellow should strive to attend and present.

In the second year of the fellowship, the Fellow should plan on submitting a paper/poster for the upcoming ASRS Meeting (and also possibly the AAO Meeting) typically held near the end of August (deadline is usually in March of the 1st year of fellowship).

Fellows will be able to follow the many patients involved in the multicenter clinical trials, allowing them to be exposed to the trials which will shape the future of our profession. This exposure will also enable them to learn the methodology behind running a nationally funded multicenter clinical trial.

Fellows are encouraged to take an active role in teaching . . . there is no better way to learn than to teach. Opportunities exist within the residency program at Rush, as well as with presentations at meetings.

Chicago hosts the Rabb Retina Study Club, held in honor of the late Maurice Rabb, a prominent medical retinal specialist in Chicago. The Club is held every other month in the evening during the academic year, and is open to all practicing retinal specialists along with interested residents and other retinal fellows from all Chicago programs. Approximately, 15 to 20 interesting cases are presented and discussed during the evening. Rush fellows are strongly encouraged to attend each study club and present a case.

Although publications are not a major emphasis of the program due to the heavy clinical load, fellows are encouraged to prepare 1 to 2 manuscripts per year for submission.

The faculty of Illinois Retina are dedicated to the participation in clinical trials. The development of new instrumentation for surgery is another priority, as is the sharing of knowledge by presentations at meetings and on-line. Fellows are exposed to these activities strengthening their knowledge and helping to formulate this type of behavior in their own future practices. There is a reason why five former fellows of the program chose to stay on the Illinois Retina -Rush University team ... it's because they believe in what they learned. It's part of the "culture" that they valued most.

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THE JOURNAL OF RETINAL AND VIREOUS DISEASES

Retinal Research and Academic Requirements

Research Duties

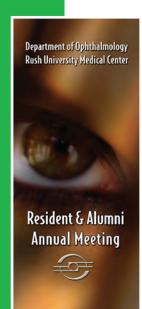
- 1. Participate in one research project per year.
- 2. Encourage to prepare at least one manuscript from the project for submission to literature

Academic Duties

- Present at Rush Alumni day each year (in June); typically presenting the results of a research project.
- Give a minimum of 2 hours of lecture (Power Point/Keynote) to the Rush residents per year
- 3. Organize and moderate one retina journal club per year with Rush residents
- Present a topic at one retina grand rounds at Rush per year ______
- 5. Attend and help moderate the Rush orbital dissection course yearly _____

Meetings to Attend:

- 1. Rabb Retina Study Club Present a case at every meeting except when on call.
- Rush Department of Ophthalmology Grand Rounds; Held the second Wednesday afternoon of each month. Fellows are encouraged to attend regard less of the subspecialty theme of the meeting
- Chicago Ophthalmological Society Monthly Meeting. Held every other month at a downtown hotel with an invited renowned speaker
- ARVO 1st Year Fellow must attend and is encouraged to present.
- 5. AAO Annual Meeting 2nd Year Fellow attends
- ASRS 2nd Year Fellow permitted to attend as a presenter
- 7. AVTT Advanced Vitreous Surgery Meeting Held each year in Chicago usually in August
- Massachusetts Eye & Ear Infirmary Vitreoretinal Surgery Fellows Symposium & Wetlab. Held in Boston, usually in July. Geared for all 1st year retinal fellows.
- 9. ASRS Fellows Forum held in Chicago in January and geared to 2nd year retinal fellows
- Chicago Curriculum in Ophthalmology -Saturday morning lecture series for all Chicago area ophthalmology residents and fellows. Lectures are given by faculty from all 7 Chicago training programs. Fellows are encouraged to attend those lectures of interest.







Training in Chicago

a sector and

Welcome to Chicago

Chicago is a great place to train as a medical resident or fellow. The medical teaching environment is terrific, with seven ophthalmology university programs, including Rush University Medical Center. There are 66 ophthalmology total residents training in Chicago, along with 6 retinal fellows, and a much greater number of other subspecialty clinical and research fellows. What is rather unique to Chicago too, is the collaborative atmosphere among all the training programs, and how well all the programs work together. There are combined lecture series, workshops, specialty meetings and study clubs supported by all of the various Chicago programs. This makes for a rich fellowship experience not usually seen in most any other city. Rush retinal fellows come to know the other retinal fellows in the city, and gain some additional learning from retinal faculty at other Chicago universities during the various collaborative meetings and events. Package this with one of the best retinal fellowships in the country at Rush, and then locate it in one of the most exciting cities in the world . . . what more can you want ?!

Chicago is one of the world's most exciting cities, indeed! From the towering skyscrapers of the Loop, to the majesty of the lakefront, to the colorful mosaic of neighborhoods that make up the city, Chicago is beautiful in the fall and buzzes with energy and excitement all season long.

There are plenty of things to do in Chicago when not seeing retinal patients . . . Window shop on The Magnificent Mile and explore the public art in Millennium Park. Enjoy the great outdoors with a Chicago Architecture Foundation river boat tour or a play date with the animals at Lincoln Park Zoo. Indoors, unwind at a leisurely pace at a luxurious spa; enjoy drinks with a view or dance the night away at a club. In Chicago, dining is an activity in itself, with over 7,300 restaurants that line the culinary landscape and boast star chefs and endless accolades.

Immerse yourself in the vibrant theater scene at Steppenwolf, Goodman or Broadway in Chicago. And take in sensational performances — be it live music, comedy, ballet or opera.... and How 'bout them Cubs, huh?

Welcome to the Windy City !



The iconic Chicago Theatre on State Street, that "Great Street"









Blues, Deep-Dish Pizza, World-Class Sports . . . Welcome to Chicago !



DEMOGRAPHICS & FACTS

Population:	2.7 million (City)
	9.6 million (Metro area)
Rank:	3rd largest city in the US
Ethnicity:	45% White - 33% Black - 5% Asian
	29% Hispanic
Foreign born:	22%
Time Zone:	Central

Incorporated: 1837 Water: Lake Michigan Chicago River Size: 234 sq miles Mean commute time to work: 33 min

Median income: \$47,000 Poverty level: 22%

Ave. High/Low:	January - 31°/16°
	April - 59°/39°
	July - 84 ° / 64 °
	October - 62°/43°
	December - 35 ° / 20 °

SPORTS TEAMS:

Baseball:	Chicago White Sox (AL) "South"
	Chicago Cubs (NL) "North"
Basketball:	Chicago Bulls (Men's)
	Chicago Sky (Women's)
Football:	Chicago Bears
Hockey:	Chicago Blackhawks (NHL)
	Chicago Wolves (AHL)
Soccer:	Chicago Fire

TRIVIA:

# Museums	200			
# Parks	552			
# Parades	36 / year			
Lakefront:	26 miles; 15 miles bathin	g beaches		
# Restaurants:	7,300			
# Ophthalmology Training Programs: 7				
# Ophthalmolog	66			
# Retinal Fellow	2			

Toddlin Town"

- Chicago offers locals and guests about 40 museums, more than 150 theaters and over 7,000 restaurants!
- Harold Washington Library Center is the world's largest public library with a collection of more than 2 million books.
- After Warsaw, Chicago has the largest Polish population.
- Chicago River is the only river in the world that flows backwards.
- The Windy City, Chi-Town, the Second City, the City of Big Shoulders, and the City That Works are just some of Chicago's many nicknames.
- The infamous "Route 66 starts in Chicago at Grant Park on Adams Street in front of the Art Institute.
- The Chicago area is home to over 30 Fortune 500 companies
- In 1893 at the World's Columbian Exposition in Chicago, the Ferris Wheel debuted.
- Encircled by the elevated ('L') train tracks, Chicago's downtown area is simply called "The Loop."
- Chicago is home to one of only three major free zoos in the US – the Lincoln Park Zoo.
- Montgomery Ward & Co. founded the first mail-order business in 1872.
- The Art Institute of Chicago holds the largest collection of Impressionist paintings outside the Louvre in Paris.
- Famous Chicago inventions include the zipper, the ferris wheel, and the Twinkie.
- An average of 35 million visitors flock to Chicago each year.

- Chicago's Home Insurance Company built the first skyscraper in 1885.
- In 1930, Chicago opened the Western Hemisphere's first ever planetarium called The Adler Planetarium.
- Dr. Bernard Fantus opened the nation's first blood bank at Chicago's Cook County Hospital in 1937.
- On September 26, 1960, John Fitzgerald Kennedy and Richard Milhouse Nixon were a part of the first televised U.S. presidential candidates' debate. It took place at Chicago's CBS Studios.
- Roller skates rolled onto the scene in 1884 in Chicago.
- Hugh Hefner started Playboy magazine in Chicago in 1950.
- The first ever daytime soap opera was filmed in Chicago and televised in 1949. The show "These are my Children" only lasted a few weeks before being canceled.
- The drive-through bank opened on November 12, 1946, in Chicago.
- Chicago has played a vital role as the setting for some of televisions most memorable shows.
 They include "Chicago Hope,""ER," "ER," "Perfect Stranche Bob Ne-Bob Newhart Show,"ng to Jim," cording to Jim," "Farried with ters," "Married with w,""Steve "Oprah Show," "Steve Havey," and "Chicago

Fire" among others.

Chicago Whitbox two-time All-Star and prior rookie of thear José Abreu excites fans at first first base.

- The name Chicago is derived from an Algonquin word "Chigagou," which translates to "onion field" because lots of onions grew on fields where the city was formed.
- Chicago is Home to the Blues. It has some of the finest blues musicians and blues bars in the world, including the world famous Kingston Mines.
- Classic Chicago food includes deep dish pizza, Italian beef, and the "Chicago Hot Dog"
- The nickname "Windy City" has nothing to do with the weather - it refers to the "wind" that the Chicago politicians blow by constantly talking in the Council.
- Illinois Retina Associates have been the eye physicians for the Chicago Bulls and White Sox since 1980.
- The Best Retinal Fellowship in the country started in Chicago at Rush University & Illinois Retina Associates. Believe it!
- Sweet Home, Chicago !



Previous & Current Fellows

Renaud Duval, MD Retinal Fellow 2011 - 2013



Preston P. Richmond, MD, OD (Deceased)

Rush Fellowship: 1986-1987 Residency: Bascom Palmer Eye Institute, Miami, FL <u>Prior Practice:</u> Central Retina Florida Consultants; Orlando, FL Single Specialty, Private Practice

Five person group; Three offices

R. Mark Hatfield, MD, OD

Retina Consultants, PLLC, Charleston, WV

304.346.4400 www.retinaconwv.com

Rush Fellowship: 1987-1988 Residency: University of Illinois Eye & Ear Infirmary, Chicago, IL

Chairman, Department Ophthalmology, Marshall University



Single Specialty, Private Practice; University Affiliated Six person group; Six offices J. Gregory Rosenthal, MD Rush Fellowship: 1988-1989

Present Practice:

Residency: St. Louis University, St. Louis, MO

<u>Present Practice:</u> Alliance Retina - Vision Alliance; Toledo, OH 419.578.2020 www.visionallianceohio.com

Muliti-Specialty, Private Practice Six practice alliance; Five offices

David D. Agahigian, MD, OD

Rush Fellowship: 1989-1990 Residency: Emory University, Atlanta, GA

Present Practice (Retired): New England Retina Consultants, PC; Springfield, MA 413.732.23333 www.neretina.com

Single Specialty, Private Practice Four person group; Single office



Richard J. Rothman, MS, MD

Rush Fellowship: 1990-1991 Residency: University of Pittsburgh, Pittsburgh, PA <u>Present Practice:</u> The Retina Institute; St. Louis, Missouri

314.367.1181 www.retinainst.com

Single Specialty, Private Practice & University Affiliate Nine person group; Fifteen offices; Fellowship program



Mohit Nanda, MD

Rush Fellowship: 1991-1992 Residency: Bascom Palmer Eye Institute, Miami, FL

Present Practice:

Virginia Retina Consultants; Charleston, VA 434.978.2040 www.virginiaretinaconsultants.com

Single Specialty, Private Practice Two person group; Two offices

John P. Rosculet, MD

Rush Fellowship: 1992-1993 Residency: Sinai Hospital, Detroit, MI

Present Practice:

Northeast Wisconsin Retina Associates; Green Bay, WI 920.751.8666 www.newretinamd.com

Single Specialty, Private Practice Five person group; Five offices

Joseph M. Civantos, MD

Rush Fellowship: 1993-1994 Residency: Bascom Palmer Eye Institute, Miami, FL

Present Practice:

Illinois Retina Associates & Rush University Medical Center; Chicago, IL 815.744.7515 www.illinoisretina.com

Single Specialty, Private Practice - University Affiliate Twelve person group; Twelve offices; Fellowship program

David S. Dyer, MD

Medical Retina Fellowship: Wilmer Eye Institute: 1994-95 Rush Fellowship: 1995-1996 Residency: University of South Carolina; Colombia, SC

Present Practice:

Retina Associates, PA; Kansas City, MO 314.367.1181 www.kcretina.com Single Specialty, Private Practice Nine person group; Eleven offices

Jack A. Cohen. MD

Ocular Oncology Fellowship: University California at San Francisco: 1995-96 Rush Fellowship: 1996-1997

Residency: Rush University Medical Center, Chicago, IL

Present Practice:

Illinois Retina Associates & Rush University Medical Center; Chicago, IL 312-942-2117 www.illinoisretina.com Single Specialty, Private Practice - University Affiliate Twelve person group; Twelve offices; Fellowship program















Sébastien Olivier, MD, OD

Rush Fellowship: 2002-2004 Residency: Université de Montréal, Montréal, Quebec, Canada

Present Practice:

Université de Montréal; Montréal, Quebec, Canada 920.751.8666 www.ophtalmologie.umontreal.ca Director Retina, Université de Montréal

Multi-Specialty, University Employed Four person retina section; Single office; Fellowship program

Sohail J. Hasan, MD, PhD

Rush Fellowship: 2003-2005 Residency: University of Toronto, Toronto, Ontario, Canada <u>Present Practice:</u> Illinois Retina Associates & Rush University Medical Center; Chicago, IL 708.647.9211 www.illinoisretina.com Single Specialty, Private Practice - University Affiliate Twelve person group; Twelve offices; Fellowship program

Eugene Y. Chang, MD, MBA

Rush Fellowship: 2004-2006 Residency: California Pacific Medical Center, San Francisco, CA <u>Present Practice:</u> Foothill Eye Institute; Pasadena, CA 626.793.3625 www.foothilleyeinstitute.com *Multi-Specialty, Private Practice*

Ten person group; Five offices



Thucanh T Multerer, MD

Rush Fellowship: 2005-2007 Residency: Wills Eye Institute, Philadelphia, PA

<u>Present Practice:</u> Northern Light Retina Care; Bangor, ME 207.973.4185 www.northernlighthealth.org

Large Multi-Specialty, Corporate Network



Zac B. Ravage, MD

Rush Fellowship: 2006-2008 Residency: Case Western Reserve, Cleveland, OH <u>Present Practice:</u> Illinois Retina Associates & Rush University Medical Center; Chicago, IL

815.744.7515 www.illinoisretina.com

Single Specialty, Private Practice - University Affiliate Twelve person group; Twelve offices; Fellowship program



Sachin Mudvari, MD

Rush Fellowship: 2007-2009 Residency: California Pacific Medical Center, San Francisco, CA

Present Practice:

North Carolina Retina Associates; Raleigh, NC 919.782.8038 ww.ncretina.com

Single Specialty, Private Practice Six person group; Seven offices

Michael Davis, MD

Rush Fellowship: 2008-2010 Residency: Rush University Medical Center, Chicago, IL

Present Practice:

Retina Institute; Los Angeles, CA 800.898.2020 www.retina2020.com

Single Specialty, Private Practice Eighteen person group; Twenty seven offices

Vivek Chaturvedi, MD

Rush Fellowship: 2009-2011 Residency: Tufts-New England Medical Center, Boston, MA

Present Practice:

Illinois Retina Associates & Rush University Medical Center; Chicago, IL 815.744.7515 ww.illinoisretina.com Single Specialty, Private Practice - University Affiliate Twelve person group; Twelve offices; Fellowship program

Anna Gabrielian, MD

Rush Fellowship: 2010-2012 Residency: University of Chicago, Chicago, IL

Present Practice:

Specialty Eye Care Medical Center: Glendale, CA 419.578.2020 www.specialtyicare.com

Multi-Specialty, Private Practice Five person group - two retina specialists; Five offices

Renaud Duval, MD

Rush Fellowship: 2011-2013 Residency: Université de Montréal, Montréal, Quebec, Canada **Present Practice:**

Université de Montréal; Montréal, Quebec, Canada 920.751.8666 www.ophtalmologie.umontreal.ca Director Fellowship Training, Université de Montréal

Multi-Specialty, University Employed Four person retina section; Single office; Fellowship program













L. Milad Haak, MD

Rush Fellowship: 2012-2014 Residency: University of California at San Diego; San Diego, CA <u>Present Practice:</u> Retinal Center of San Diego; San Diego, CA 858.943.6102 www.retinacentersd.com

Single Specialty, Private Practice Single person group; One main offices

Michael McClintock, MD

Rush Fellowship: 2013-2015 Residency: University of Florida School of Medicine, Gainsville, FL

Present Practice:

Vistar Eye Center Vision and Surgical Specialists, Roanoke, VA 540.855.5100 www.vistareye.com

Multi-Specialty, Private Practice Nineteen person group; Thirteen main offices; Ten satellite offices

George Par, MD

Rush Fellowship: 2014-2016 Residency: Weill Cornell / NY Presbyterian Medical Center; New York, NY

<u>Present Practice:</u> Wolfe Eye Clinic; Des Moines, IA 515.223.8685 www.wolfeeyeclinic.com

Multi-Specialty, Private Practice Twenty one person group; Thirty three offices



Marina Gilca, MD Rush Fellowship: 2015-2017

Residency: Université de Montréal, Montréal, Quebec, Canada <u>Present Practice:</u> Retina Consultants, Ltd.; Fargo, ND 708.293.9829 www.fargoretina.com

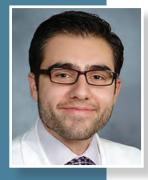
Single Specialty, Private Practice Three person group; Two offices



Elizabeth Atchison, MD

Rush Fellowship: 2016-2018 Residency: Mayo Clinic, Rochester, MN <u>Present Practice:</u> Ophthalmology, Ltd.; Sioux Falls, SD 605.336.6294 www.ophthalmologyltd.com Multi-Specialty, Private Practice Twelve person group ; Twelve offices





John "Charlie" Zeyer, MD

Rush Fellowship: 2017-2019

Residency: University of Chicago Medical Center; Chicago, IL

Present Practice:

Health Partners Specialty Center, Saint Paul, MN 952.993.3150 ww.healthpartners.com Large Multi-specialty, Corporate Network

Naryan "Ryan" Sabherwal, MD

Rush Fellowship: 2018-2020

Residency: Loyola University Medical Center, Maywood, IL

Present Practice:

Illinois Retina Associates & Rush University Medical Center; Chicago, IL 815.744.7515 ww.illinoisretina.com Single Specialty, Private Practice - University Affiliate Twelve person group; Twelve offices; Fellowship program

Omar Dajani, MD

Rush Fellowship: 2019-2021 Residency: Tufts New England Medical Center, Boston, MA

Present Practice:

Health Partners Park Nicollete, Maple Grovel, MN 952.993.3150 ww.healthpartners.com Large Multi-specialty, Corporate Network

Chirag Shah, MD, MPH

Rush Fellowship: 2020-2022 Medical School: SUNY Stony Brook School of Medicine, Stony Brook, NY Residency: University of California Irvine Medical Center, Irvine, CA

Cell: 714.366.6806

Email: chiragmph@gmail.com

Samuel Minaker, MD, MSc, FRCSC

Rush Fellowship: 2021-2023 Residency: University of Toronto

Present Practice:

Illinois Retina Associates & Rush University Medical Center; Chicago, IL 815.744.7515 ww.illinoisretina.com

Single Specialty, Private Practice - University Affiliate Thirteen person group; Twelve offices; Fellowship program











Current Fellows



Emily "Annie" Shepherd, MD

Rush Fellowship: 2022-2024 Undergraduate: University of Notre Dame Medical School: University of Tennesse Residency: Rush University Medical Center Cell: 615.737.4076 Annie.shepherd.15@gmail.com



Sarah Syeda Rush Fellowship: 2023-2025 Undergraduate: University of Glasgow Medical School: University of Glasgow School of Medicine, Dentistry, and Nursing Residency: Kresge Eye Institute Cell: 773-519-4422 Ssyeda@illinoisretina.com

The Application Process

The Rush University / Illinois Retina Associates retinal fellowship participates exclusively through the San Francisco Match Program (www.sfmatch.org). The application process opens on June 30, and interested applicants submit through the SFMatch process - **no supplemental applications are required**.





Link to SF Match

Elizabeth Atchison, MD, Fellow 2016-18, presents a research paper at the podium during the ASRS 2018 Annual Meeting in Vancouver. Elizabeth presented at the ARVO and ASRS meetings in both 2017 &18, and won first place the national Ophthalmology Times Retina Research Scholar Program in 2017.

Recent Fellow Publications and Presentations at National Meetings

> VANCOUVER ANNUAL MEETING # 2018

Fellow Publications

Patel P., Heo, J. Y., Shepherd, E. A., & Chaturvedi, V. (In press). Scleral Buckle Removal: Long term Patient Outcomes. Ophthalmology Retina.

Dajani, O., Shepherd, E. A., & MacCumber, M.. Vitreous Seeding of Renal Cell Carcinoma in a Patient Receiving Checkpoint Inhibitors. Retinal Cases and Brief Reports.

Shepherd, E. A., Sabherwal, N., & MacCumber, M. Large Pre-Retinal Hemorrhage in High Altitude Retinopathy. Retinal Cases and Brief Reports.

Dajani O, MacCumber MW. "Do Rhegmatogenous Retinal Detachment Repair and Outcomes Vary by Day of the Week?" JAMA Ophthalmol. December 19, 2019

Sabherwal N, MacCumber M. Pars Plana Vitrectomy. The Duke Manual of Vitreoretinal Surgery. 2020

Pollack JS, Sabherwal N. Small Gauge Vitrectomy: Operative Techniques. Curr Opin Ophthalmol. 2019 May;30(3):159-164. PMID: 30883444

Zeyer J, Parker P, Dajani O, MacCumber M. "Pre-Operative Domed Macular Contour Correlates with Post-Operative Visual Gain After Vitrectomy for Symptomatic Epiretinal Membrane." Retina. 2020 Jun 16 Atchison EA, Barry CN, Lum F, Mattox C, MacCumber MW. The real world effect of antiVEGF injections on IOP using the IRIS ® registry. Ophthalmology 2018; epub ahead of print

Atchison EA, Flood TP. Localization of Macular Crystals Associated with Chronic Retinal Detachment to the Posterior Hyaloid using Spectral Domain Optical Coherence Tomography. *Retina Cases & Brief Rep* 2018;

Gilca M, Merrill PT. Cystoid macular edema secondary to rituximab. Retina Cases & Brief Reports, 2017 Mar.

Herst BS, Parlitsis GJ, Shapiro MJ, Goldstein DA, Merrill PT. Multiple evanescent white dot syndrome in a 9-yearold girl. Retina Cases & Brief Reports.

Gilca M, Luneau K. Multiple concomitant cranial nerve palsies in pre-eclampsia. J. Neuroophthalmol, 2015 June; 35(2):179-81.

McClintock M et al. Spectral Domain Optical Coherence Tomography Findings in CNGB3-Associated Achromatopsia and Therapeutic Implications. *Adv Exp Med Biol.* 2014.

Chartuvedi V, Rezaei KA. Surgeon assisted scleral depressed vitreous shaving, 360 endolaser, and 14% C₃F₈ for rhegmatogenous retinal detachment. *Indian J Ophthalmol.* 2014 Jul;62(7):804-8.

Duval R, Hui JM, Rezaei KA. Rate of sclerotomy suture in 23-gauge primary vitrectomy. *Retina* 2014: Apr;34(4):679-83.

Gabrielian A, MacCumber MW, Holland GN, Mitsuyasu R, Kukuyev A, Sarraf D. Didanosine associated retinal toxicity in adult HIV patients. Arch Ophthalmology 2013;131(2): 255-259.

Hakimbashi M, Rezaei K. Rate of Elevated Intraocualar Pressure Post Primary Vitrectomy Surgery. Presented at Rush Resident and Alumni Research Symposium.

Gabrielian A, MacCumber MW. Central serous chorioretinopathy associated with the use of spironolactone – aldosterone receptor antagonist. *Retinal Cases & Brief Reports*, 2012;6:393-395.

Chi M, Bucher N, Gabrielian A, MacCumber MW, Zdunek T. Subcutaneous diffuse large B-cell lymphoma with intraocular involvement. *Future Oncology*, 2012 Jun; 8(6):757-60.

Huang DX, Master YW, Master RW, He Bachelor GG, Gabrielian A, MacCumber MW. Diagnostic and Therapeutic Challenges. *Retina* 2012 Feb;32(2):399-402.

Davis MJ, Pollack JS, Shott S. Comparison of Topical Anesthetics for Intravitreal Injections: A Randomized Clinical Trial. *Retina* 2012;32(4):701-705.

Hatef E, Ibrahim M, Nguyen QD, Do D, Davis MJ, Rezaei KA et al. Diagnostic and Therapeutic Challenges. *Retina* 2011;31(6):1218-1223.

Davis MJ, Mudvari SS, Shott S, Rezaei KA. Clinical Characteristics Affecting the Outcome of Pneumatic Retinopexy. Arch Ophthalmol 2011;129(2):163-166.

Cohen AJ, Weinberg DA. Evaluation and Management of Blepharoptosis. Chapter 30. Hakimbashi M, Kikkawa DO, Korn BS. Complications of Ptosis Repair: Prevention and Management.

Davis MJ, Packo KH, Epstein RJ, Grostern RJ, Cohen JA. Acanthamoeba endophthalmitis following penetrating keratoplasty for acanthamoeba keratitis. Arch Ophthalmol 2010;128(4):505-506.

Mudvari SS, Virasch VV, MacCumber MW. Ultra-wide Imaging for CMV Retinitis. Ophthalmic Surgery, Lasers, and Imaging. May-Jun 2010; 41(3):311-5.

Babiuch AS, Ravage ZB, Merrill, PT. Cytomegalovirus acute retinal necrosis after sub-Tenon's triamcinolone injection. *Retinal Cases and Brief Reports* 2010 Fall; 4(4): 364-365.

Mudvari SS, Ravage ZB, Rezaei KA. Retinal Detachment after Primary Pneumatic Retinopexy. Retina, Nov/Dec 2009; 29(10): 1474-8.

Rezaei KA, Mudvari SS, de Bustros S. Diagnostic and Therapeutic Challenges. Retina, June 2008; 8(6): 904-907.

Park SS, Holz HA, Ravage ZB, Merrill PT, Nguyen QD. Diagnostic and therapeutic challenges: Acute retinal necrosis syndrome. *Retina* 2008, Apr; 28(4):660-4.

Fellow Presentations at National Meetings

Shepherd, E. A., Bomdica, P., MBA, Minaker, S., Rezaei, S., Aggarwal, N., Bouchar, N., & MacCumber, M. (2023, July). Risk of Rhegmatogenous Retinal Detachment (RRD) with Proliferative Vitreoretinopathy (PVR) in a Patient's Second Eye After RRD with PVR development in the First Eye: Vestrum Database Analysis. Paper ASRS, Seattle, WA 2023.

Shepherd, E. A., & Chaturvedi, V.. (2023, April). Epiretinal Membrane Surgery within 1 year of Retinal Detachment Repair: Clinical Outcomes & Anatomic Characteristics. ARVO Meeting 2023.

Shepherd, E. A., Patel, P., & Chaturvedi, V. (2022, May). Scleral Buckle Removal: Review of Indication and Patient Outcomes. Poster presented at ARVO, New Orleans, LA.

Minaker, S. A., Abdel-Hadi, S., & Parker, M. (2022, November). Surgical Outcomes of Rhegmatogenous Retinal Detachment in Patients 30 Years of Age or Younger at 3-Month, 1-Year, and 5-Year Follow-ups. Poster Presentation at The Retina Society Annual Meeting, Pasadena, California.

Minaker, S. A., Abdel-Hadi, S., & Parker, M. (2022, July). Surgical Outcomes of Rhegmatogenous Retinal Detachment in Patients 30 Years of Age or Younger at 3-Month, 1-Year, and 5-Year Follow-ups. Oral Presentation at American Society of Retinal Specialists Annual Meeting, New York, New York.

Minaker, S. A., Abdel-Hadi, S., & Parker, M. (2022, May). Surgical Outcomes of Rhegmatogenous Retinal Detachment in Patients 30 Years of Age or Younger at 3-Month, 1-Year, and 5-Year Follow-ups. Poster at ARVO, Denver, Colorado.

Shah C., Murphy T, MacCumber M, Packo K, Merrill P, Pollack J, Hassan S, Ravage Z, Sabherwal N, Chaturvedi V. Large Operative Case Series of Degenerative Lamellar Macular Holes. ASRS Paper Presentation October 2021.

Dajani O., Gupta R, Pollack J. Impact of Preoperative EIFL and DRIL on Visual Outcomes in Pseudophakic Eyes with Epiretinal Membrane. Retina Society, 2021. Chicago, IL

Dajani O, Rezaei K. The Role of Baseline Characteristics on Final Visual Outcome of Patients Who Underwent Vitrectomy Surgery for Primary Macula-Off Rhegmatogenous Retinal Detachment. ARVO Meeting 2020

Murphy T, Shah C, Mackin A, Skondra D, MacCumber M. Stage 1 Macular Holes Potentially Closed with Topical Therapy. ARVO Annual Meeting Abstract. Investigative Ophthalmology & Visual Science June 2021, Vol.62, 2200.

Patel P, Dajani O, Minkowski J, et al. Analysis of PVD and development of complications using a large database of retina specialists. ARVO Meeting 2021

Sabherwal N., Rezaei K. (2019, May) Transitioning to a Disruptive New Technology. Presented at the Association for Research in Vision and Ophthalmology Meeting, Vancouver, Canada

Atchison, E.A., Pollack, JS. Single Intraoperative Subconjunctival Triamcinolone Acetonide Injection Versus 4-6-Week Topical Steroid Taper Following Vitreoretinal Surgery. *American Society of Retina Specialists (ASRS)* Annual Meeting, Vancouver, Canada, July, 2018

Atchison EA, Barry C, Mattox C, Wood K, Lum F, MacCumber M. The Real World Effect of Intravitreous Anti-VEGF Drugs on IOP. American Society of Retina Specialists (ASRS) Annual Meeting, Boston, MA, 2017.

Atchison EA, Barry C, Mattox C, Wood K, Lum F, MacCumber M. The Real World Effect of Intravitreous Anti-VEGF Drugs on IOP. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting,

Baltimore, MD, May 2017 (Awarded the "Hot Topic" distinction).

Gilca M, Rezaei K. Real world long term outcomes of wet AMD treatment in the US. Association of Research in Vision and Ophthalmology (ARVO) Annual Meeting, Seattle, Washington, May 2016.

Gilca M, Rezaei K. Real world long term outcomes of wet AMD treatment in the US. American Society of Retinal Specialists (ASRS) Annual Meeting, San Francisco, California, August 2016.

Parlitsis G, Rezaei K. Long Term Outcomes in Patients With Neovascular Age-Related Macular Degenera- tion (NVAMD) Treated with Anti-VEGF Therapy. *American Society of Retina Specialists (ASRS) Annual Meeting*, Vienna, Austria, July 2015

Parlitsis G, Rezaei K. Visual Acuity and Macular Thickness in Patients with Exudative Age-Related Macu- lar Degeneration (AMD) Treated with Long-Term Anti-VEGF Therapy. *Association of Research in Vision and Ophthalmology* (ARVO) Annual Meeting, Denver, Colorado, 2014

McClintock M. Serous Choroidal and Tractional/Serous Retinal Detachment Following Intravitreal Ocriplasmin. American Society of Retinal Specialists (ASRS) Annual Meeting, San Diego, California, August 2014.

McClintock, M, Rezaei, KA. Characteristics of Eyes with Rhegmatogenous Retinal Detachment Requiring Multiple Reattachment Surgeries. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Sarasota, FL, 2014.

Packo KH, Abulon, D, Hakimbashi M, An Intraocular Look at Vitreous Surgery, Part 2. Video - Rhett Buckler Award Winner. American Society of Retina Specialists (ASRS) Annual Meeting, San Diego, CA, 2014

Hakimbashi M, Rezaei KA. Rate of Elevated Intraocular Pressure Post Primary Vitrectomy Surgery. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Seattle, OR, 2013.

Duval R, Rezaei KA. Rate of suturing in 23 gauge and 25 gauge primary vitrectomy. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, 2013.

Merrill PT, **Duval R**, Packo KH. Use of Perfluoron for Large-volume Vitreous Biopsy, Or How We Learned from Aesop's Crow. Video presentation - Rhett Buckler Award Winner. *American Society of Retina Specialists (ASRS)* Annual Meeting, Las Vegas, NV, 2012

Fellow Presentations at National Meetings

Gabrielian A, Flood CT, Flood TP. Trends in the Incidence & Outcomes of Endophthalmitis After Anti-Vascular Endothelial Growth Factor (anti-VEGF) Injections in the Last Seven Years. Association for Research in Vision and Ophthalmology Meeting (ARVO), Fort Lauderdale, FL, 2012.

Gabrielian A, Basham R, MacCumber MW. Ranibizumab for the Treatment of Persistent Diabetic Retinal Neovascularization as Assessed by Super Wide-Field Angiography (Optos). American Society of Retina Specialists (ASRS), Boston, MA, 2011.

Gabrielian A, Cohen JA, Civantos JM, Pollack JS, MacCumber MM, Merrill PT, Hasan SJ, Ravage ZB, de Bustros S, Packo KH, Rezaei KA. Primary Scleral Buckling Surgery for Rhegmatogenous Retinal Detachment. *Association for Research in Vision and Ophthalmology Annual Meeting (ARVO)*, Fort Lauderdale, FL, 2011.

Doshi R, Chaturvedi V, Civantos JM. Retrospective Review of Full Thickness Traumatic Macular Holes. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, 2011.

Gabrielian A, MacCumber MW, Sarraf D. Mitochondrial toxicity manifesting as progressive midperipheral chorioretinal atrophy in patients on nucleoside reverse transcriptase inhibitors (NRTI) for the treatment of human immunodeficiency virus (HIV). Ocular Imaging Case Conference (OIC) at the American Academy of Ophthalmology (AAO) Annual Meeting. October 2011.

Gabrielian A, Merrill PT. Primary Intraocular Lymphoma Treatment. MUSE (Midwest Uveitis Society for Science and Education). University of Illinois Eye & Ear Infirmary. Chicago, IL, March 2011.

Chaturvedi V, Davis MJ, RP Basham, MacCumber M. Laser barricade for rhegmatogenous retinal detachment. Annual American Society of Retina Specialists (ASRS) Annual Meeting ,Vancouver, Canada 2010.

Rezaei KA and **Chaturvedi V.** Pars plana vitrectomy with scleral depressed vitreous shaving, 360 degree peripheral endolaser, and 14% C3F8 gas for primary repair of rhegmatogenous retinal detachment. *Annual American Society of Retina Specialists* (ASRS) Annual Meeting, Vancouver, Canada 2010.

Chaturvedi V. Update on imaging for dry AMD: OCT, autofluorescence, and potential therapies. Invited Speaker at the Ophthalmic Photographers Society at the American Academy of Ophthalmology (AAO) Annual Meeting, Chicago, IL, November 2010.

Chaturvedi V and Rezaei KA. Pars plana vitrectomy with scleral depressed vitreous shaving, 360 degree peripheral endolaser, and 14% C3F8 gas for primary repair of rhegmatogenous retinal detachment. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, May 2010.

MW MacCumber, V Chaturvedi, MJ Davis, and RP Basham. Laser barricade for rhegmatogenous retinal detachment: A review of 84 cases. Vail Vitrectomy Meeting, Vail, CO, April 2010.

Davis MJ, Haffar N, Maletich J, Merrill PT. Intraoperative Variables Affecting the Outcome of Epiretinal Membrane Surgery. *American Society of Retina Specialists (ASRS) Annual Meeting,* Vancouver, Canada, August 2010.

Chaturvedi V, Davis MJ, Basham RP, MacCumber MW. Laser barricade for rhegmatogenous retinal detachment. American Society of Retina Specialists (ASRS) Annual Meeting, Vancouver, Canada, August 2010.

Pollack JS, Davis MJ, Mudvari SS. Standardized Cannula Insertion and Removal Technique Minimizes Sclerotomy Leaks and Postoperative Hypotony after 23g Vitrectomy. American Society of Retina Specialists (ASRS) Annual Meeting, Vancouver, Canada, August 2010.

Merrill PT, Maletich J, Haffar N, Davis MJ. Postop Course of Eyes with Persistent Macular Edema Following Epiretinal Membrane Surgery. American Society of Retina Specialists (ASRS) Annual Meeting, Vancouver, Canada, August 2010.

Davis MJ, Shott S, Pollack JS. Patient Assessment of Topical Anesthetic Effectiveness for Intravitreal Injections. Association of Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale FL, May 2010.

Davis MJ, Packo KH, Epstein RJ, Grostern RJ, Cohen JA. Acanthamoeba Endophthalmitis following Penetrating Keratoplasty for Acanthamoeba Keratitis. 5th International Conference on Ocular Infections (ICOI) Meeting, Palm Beach FL, February 2010.

Davis MJ, Packo KH, Epstein RJ, Grostern RJ, Cohen JA. Acanthamoeba Endophthalmitis following Penetrating Keratoplasty for Acanthamoeba Keratitis. *Ocular Microbiology and Immunology Group (OMIG) Meeting,* San Francisco CA, October 2009.

Davis MJ, Mudvari SS, MacCumber MW, Packo KH, Merrill PT, Pollack JS, Civantos JM, Cohen JA, Flood TP, DeBustros S, Shott, S, Rezaei KA. Pneumatic Retinopexy for Rhegmatogenous Retinal Detachment: Preop characteristics determining single operation success. *Retina Congress 2009*, New York NY, October 2009.

Pollack JS, Davis MJ. Patient Assessment of Gel versus Liquid Anesthetic for Intravitreal Injections. Retina Congress 2009, New York NY, October 2009.

Merrill PT, Larsen BP, Davis MJ, Mudvari SS, MacCumber MW. Combination Lucentis and Ocular Photodynamic Therapy with Visudyne, with Evaluation-based Retreatments (CLOVER) Trial. *Retina Congress 2009*, New York NY, October 2009.

Ravage ZB. Efficacy of Combined Bevacizumab and Photodynamic Therapy for Neovascular Age-Related Macular Degeneration in Naïve versus Previously Treated Eyes. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Ft. Lauderdale, FL.

Ravage ZB. Visual Outcomes in Eyes Switched from Pegaptanib to Ranibizumab for Neovascular Age-Related Macular Degeneration. American Society of Retina Specialists (ASRS) Annual Meeting, Indian Wells, CA.

Ravage ZB. Visual Outcomes in Eyes Switched from Pegaptanib to Ranibizumab for Neovascular Age-Related Macular Degeneration. Association for Research in Vision and Ophthalmology Meeting, Ft. Lauderdale, FL.

Fellowship Policies & Perquisites

Marina Gilca, MD, Retinal Fellow, 2015-17

Salary and Benefits:

- 1st Year Rush PGY5 Equivalent
 2nd Year Rush PGY6 Equivalent
- Health and Dental Insurance
- Malpractice Insurance
- Long Term Disability Insurance

Reimbursement/Perks Supplied by Rush:

- The Fellow receives driving reimbursement through Rush GME for driving to satellite offices during the fellowship.
- Travel allowance of \$1,200 per year for one conference through the Rush Eye Center.
- An additional \$1,000 per year for LEAP to be used for tuition like registration or course fees.
- Attendance fees at COS monthly meetings

Reimbursement/Perks Supplied by Illinois Retina:

- The Fellow receives \$1,500 annually for each conference they present that is not reimbursed through the Rush Eye Center (above).
- Membership in the ASRS

Perquisites:

- Cellphone is provided
- Gas mileage reimbursement
- Keys to all offices
- Lab coats at Ingalls and Rush
- Parking at Ingalls and Rush
- Food at Rush

Special Time Requirements:

- Both first and second year IRA Fellows are required to be in attendance for the entire fellowship interviews. The second year Fellow will be conducting the Ingalls Hospital OR Tours on Saturday morning while the first year Fellow will be participating in the interviewing of the candidates.
- Vacation/Time off may NOT be taken in the last 2 weeks of June. Fellows are expected to finish the second year of their training on June 31.

Vacation Utilization:

- Fellows are allowed 4 full weeks (20 working days and 8 weekend days) of paid leave days through Rush GME. These days can be used for vacation, meetings, interviews, and other personal time off needs including sick time.
- Most Fellows take anywhere from 2-3 weeks of vacation during the 1st year of Fellowship plus meeting time. During the second year the Fellow tends to take less time off, saving days for interviewing.
- Included in the 28 leave days are 5 meeting days.
- All vacations, or any other time off including meeting days must be forwarded in advance to the fellowship coordinator in writing (e-mail) and approved by the Fellowship Director.
- It is mandatory for the First Year Fellow to attend the ARVO Meeting. The Second Year Fellow is allowed to attend the AAO Meeting and, if presenting, the ASRS Meeting.
- Registration for any additional meetings needs to be approved by the Fellowship Director.



Mathew MacCumber, MD, PhD, George Par, MD - Retinal Fellow 2014 - 2016, and Sohail Hasan, MD, PhD at the AAO Mid-Year Forum on Advocacy Day



Marina Gilca, MD, Retina Fellow 2015 - 2017, with husband Igor Mekhtiev

AUPO Requirements:

 All fellows must fulfill all requirements specified by the AUPO. Of particular importance to the AUPO is completion of the Exit Interview before leaving fellowship.

Resident Involvement:

- Fellows will be expected to aid in the education of the residents of Rush University. Resident teaching sessions should be arranged by the retina fellow to complement the teaching already given by the faculty to the residents. Fellows are expected to maintain an open and approachable attitude with the residents. There are various teaching methods used to teach the residents:
 - 1. Handouts on Topics
 - 2. Lectures
 - 3. Skills Labs
- Fellows take an active role in teaching residents & students in the Monday & Wednesday retina clinics, and the Friday uveitis clinic, as well as in the Rush OR
- Every Wednesday AM with Dr. Cohen the fellow teaches the 1st year residents how to do a diabetic laser, Focal and PRP. Fellows are expected to teach the residents the basics of lasers, lens, pathophysiology of diabetic retinopathy.

On Call Responsibilities:

- When On Call, the answering service will always call the Fellow first. Fellows should keep their pagers with them at all times and always be available when answering service pages them.
- A pager and cell phone will be provided by the practice
- Call starts at 4:30 pm on weekdays and ends at 8:00 am the following day (or Monday at 8:00 am when on call over the weekend)
- In addition to the pager the fellow has the following choices of how to have the messages delivered to them:
 - The Fellow can choose to have a text message sent to their phone.
 - 2. The Fellow can choose to have a phone call to their cell phone.
- When on call, the Fellow will receive calls from established IRA patients or referring MDs, ODs or ERs.
- During call, the Fellow should always offer the patient the opportunity to be seen, based on the clinical situation.
- - Ingalls Office, Harvey
 Rush
- The Fellow is expected to call the attending physician in the following circumstances:
 - 1. Any time the Fellow is unsure of diagnosis, treatment, etc.
 - 2. Any time the Fellow is planning on proceeding with any acute treatment (lasering a tear, cryo, pneumatic).
 - 3. For all Retinal Detachments
 - 4. For all Endophthalmitis

George Par, MD - Retinal Fellow 2014 - 2016 on Graduation Day

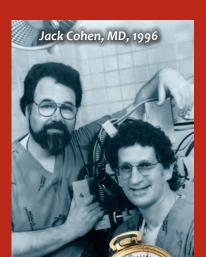


The Ripple Effect



Every eye his students touch has his touch ... Every student each student teaches has his eyes.

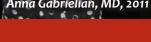


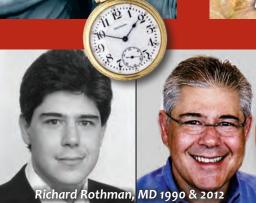


















Illinois Retina Associates and Rush University School of Medicine



Retinal-Vitreous Fellowship

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