

Dear Friends,

It is my pleasure to share *Insights 2025*, the latest annual report for the West Virginia University Eye Institute and the Department of Ophthalmology and Visual Sciences.

For more than 25 years, the WVU Eye Institute has advanced a clear mission: to improve vision, prevent blindness and expand access to high-quality eye care across West Virginia and the broader Appalachian region. As the state's only tertiary eye care center—serving a population with one of the highest rates of visual impairment in the nation—this responsibility continues to shape both our strategy and our growth.

The past year reflects meaningful and measurable progress across each pillar of our mission.

Our outreach efforts remain both a defining strength and a moral imperative. Under the leadership of Rebecca Coakley, MA, CLVT, our outreach team continues to build high-impact, visible programs that bring care directly to underserved communities. Through initiatives such as our Appalachian Vision Outreach Program and expanded community screening partnerships, we are delivering examinations, glasses and coordinated follow-up care to patients who might otherwise go without. At the same time, faculty-led global initiatives are extending this work internationally—providing surgical care while training local physicians to sustain it. We have also expanded advanced clinical services

across multiple sites in West Virginia, strengthening access closer to where patients live. Together, these efforts represent a comprehensive and scalable approach to reducing visual disparities.

Our research enterprise is increasingly focused on work that connects discovery to real-world impact. In the laboratory, investigators are advancing our understanding of retinal disease at a cellular level, including mechanisms such as protein mislocalization that contribute to inherited blindness. In parallel, our clinical research programs are addressing the practical challenges our patients face every day, including barriers to glaucoma care in rural populations. This integration of basic science and population-based research positions us to deliver solutions that are not only innovative, but implementable at scale.

Education continues to evolve alongside these efforts. Our trainees benefit from progressive responsibility in settings such as our VA rotations,

where residents manage complex patient care with a high degree of independence. These experiences are shaping physicians who are not only clinically excellent, but prepared to lead in diverse practice environments. Under the direction of Program Director Bradley Thuro, M.D., our residency program has expanded to five positions per year—an important step in addressing workforce needs across our region.

At the center of our future is the construction of the new WVU Eye Institute facility—a transformative \$233 million investment in the health of our region. This 150,000-square-foot facility will nearly double our clinical capacity, expand surgical and diagnostic capabilities, and support the recruitment of additional faculty while growing our training programs. This is not simply an expansion—it is a long-term commitment to fundamentally improving access to eye care across Appalachia.

We are now at a pivotal moment. As this facility takes shape, so does the opportunity to define what it will become—through the programs we build, the people we recruit, and the patients we serve. Philanthropic partnership will play a critical role in that process. Investments made today will directly shape the scope of our outreach, the pace of our research and the care we are able to deliver from day one. For those who share our commitment to improving

“We are now at a pivotal moment. As this facility takes shape, so does the opportunity to define what it will become—through the programs we build, the people we recruit, and the patients we serve.”

THOMAS MAUGER, M.D.

vision and expanding access across our region, this is a unique opportunity to have lasting impact.

This progress is made possible through partnership. In 2025, we were grateful to receive more than \$650,000 in philanthropic support. These investments directly enable outreach programs, expand access for underserved patients and accelerate research that will define the future of vision care. As we look ahead, continued philanthropic engagement will be essential to fully realize the promise of our new facility and the mission it represents.

Most importantly, our success reflects the commitment of our people. Our faculty, trainees and staff bring a shared sense of purpose to their work each day, and their dedication defines the culture of the Eye Institute.

Thank you for your continued support and engagement in our mission. We look forward to building on this momentum in the years ahead.

Sincerely,

Thomas Mauger MD



Thomas F. Mauger, M.D.
*Professor and Chair,
Department of Ophthalmology
and Visual Sciences*

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**RYAN
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Associate – Ramamurthy/
Liu Lab



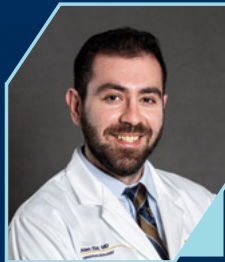
Faculty, fellows, and residents gather
for the Department of Ophthalmology
and Visual Sciences' Annual Night of
Recognition on Friday, June 20th, 2025.

FELLOWS



**GALAXY
DESIRE M.D.**

Fellow, Ophthalmic Plastic
and Reconstructive Surgery
Fellowship Program



**ALLEN
EID M.D.**

Fellow, Vitreoretinal
Fellowship Program



**AKIL
HINDS M.D.**

Fellow, Glaucoma
Fellowship Program



**AMI
PATEL M.D.**

Fellow, Vitreoretinal
Fellowship Program

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**YONAH
LEVY M.D.**



**MICHAEL
SHI M.D.**



**SANYA
YADAV M.D.**



**RAWAN
ELHAMDANI M.D.**



**ROBERT
FINLEY M.D.**



**HASEEB
MAHMUD M.D.**



**OMAR
SADAT M.D.**



**STEPHEN
CHEN M.D.**



**FORREST
CLARK M.D.**



**SABRINA
DUONG M.D.**



**DENIZ
SISO M.D.**

**PGY 1
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ABDULNABI M.D., MPH**

**KUN HSI
CHU M.D.**

**ERIC
MORAN M.D.**

**MOLLY
SHOTT M.D.**

**ASHLEY
YASKANICH M.D.**

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ELLEN
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Program Director



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AMY
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KAIT
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Program Coordinator



BETHANIE
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Academic Specialist



CVRP staff members pose with the seven students featured in "Sight Unseen," a new documentary highlighting the program, alongside the film's director at a special premiere hosted at the Erickson Alumni Center.

Construction of new WVU Eye Institute continues to progress ahead of fall 2027 grand opening

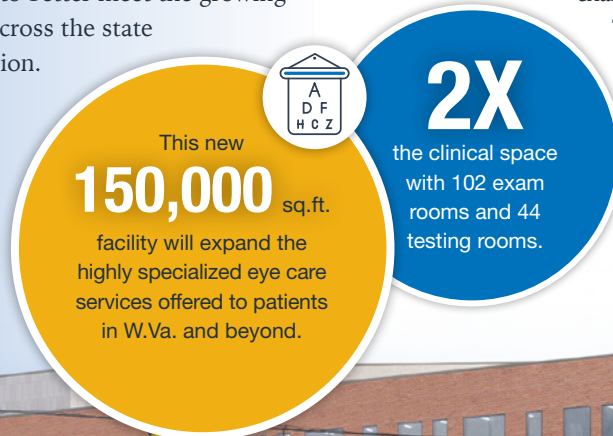
More than a year after breaking ground in January 2025, construction of the new \$233 million West Virginia University Eye Institute continues to progress, as its official unveiling in the fall of 2027 quickly approaches.

The more than 150,000 square-foot facility will be located at the intersection of Van Voorhis Road and Elmer Prince Drive, near the Erickson Alumni Center in Morgantown.

Thomas Mauger, M.D., chair for the Department of Ophthalmology and Visual Sciences, emphasized the importance of this expansion, which will allow WVU ophthalmologists to better meet the growing needs of patients from across the state and the surrounding region.

“Serving as the lone tertiary eye care center in the state with the second-highest visual disparity in the nation means there is always a great need for the services that we provide,” Dr. Mauger explained. “This expansion will serve as a significant step forward in better meeting those needs, as we work towards our ongoing goal of improving the overall visual health of patients from West Virginia and the neighboring states of Ohio, Pennsylvania and Maryland.”

This expansion will enable the Eye Institute to nearly double its available clinical space, increasing from 60 exam rooms and 13 testing rooms to 102 exam rooms and 44 testing rooms. The project also includes the addition of several new





For the latest on the construction of the new WVU Eye Institute, scan the QR code below to view a live feed of the building's ongoing progress.

surgical suites and the construction of a multi-level parking garage with more than 1,000 spaces.

Mauger explained that this substantial increase in clinical space will enable the Eye Institute to not only serve significantly more patients but also recruit more physicians and expand the highly specialized eye care services offered to patients. The new building will also allow the Eye Institute to better accommodate its growing number of trainees, including the residency program, which increased its annual cohort to five residents per year in 2025.

Construction of the four-story facility reached a significant milestone in November, as WVU Medicine leaders, faculty, and staff gathered to watch as one of the final steel beams was lowered into place.

Prior to the ceremony, Eye Institute faculty, staff, and trainees were invited to sign the beam, officially leaving their mark on the new building.

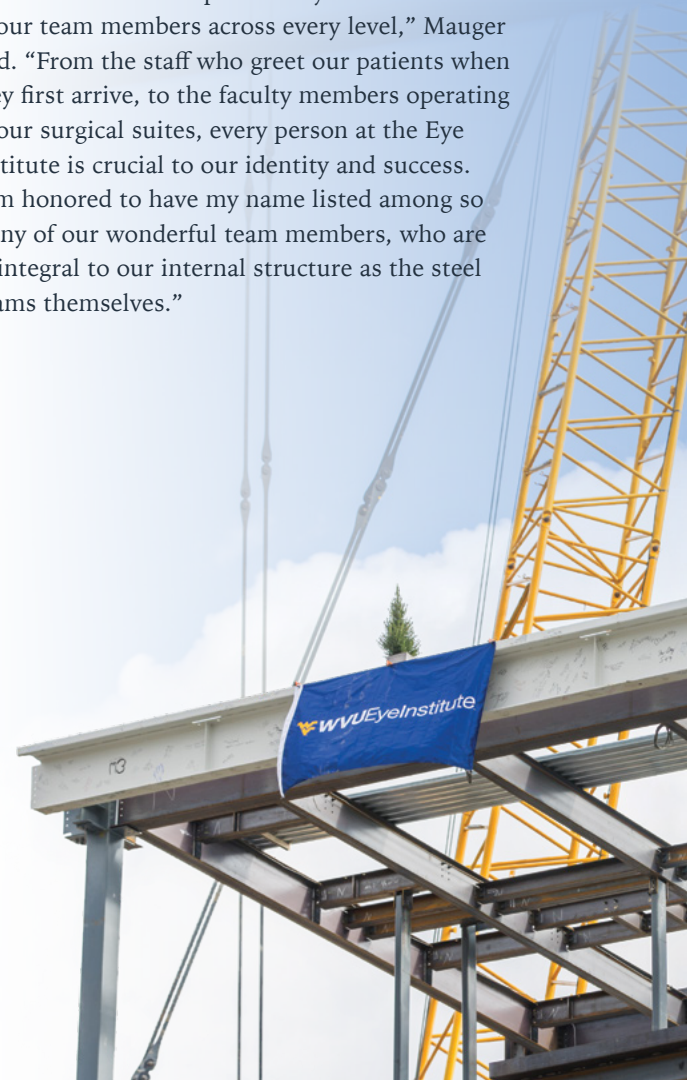
"Everything we are able to accomplish at the Eye Institute is made possible by the contributions of our team members across every level," Mauger said. "From the staff who greet our patients when they first arrive, to the faculty members operating in our surgical suites, every person at the Eye Institute is crucial to our identity and success. I am honored to have my name listed among so many of our wonderful team members, who are as integral to our internal structure as the steel beams themselves."



"I am honored to have my name listed among so many of our wonderful team members, who are as integral to our internal structure as the steel beams themselves."

THOMAS MAUGER, M.D.

chair, Department of Ophthalmology and Visual Sciences



Training the next generation of eye physicians

The West Virginia University Department of Ophthalmology and Visual Sciences offers training for the next generation of ophthalmologists through a comprehensive residency program that encompasses all areas of visual sciences, as well as four highly specialized fellowship programs.

The programs are primarily hosted at the WVU Eye Institute in Morgantown, which proudly serves as the lone tertiary eye care center in West Virginia and attracts patients from across the state and the surrounding region. The programs offer extensive and varied curricula that provide ample opportunities for trainees to become involved in various research and/or outreach initiatives.

Extensively Exploring Ophthalmology Through Residency

The Department of Ophthalmology and Visual Sciences Residency Program offers three years of extensive and comprehensive training in all areas of ophthalmology, with an additional joint transitional year internship. The ACGME-certified program is led by Program Director Bradley Thuro, M.D., and supported by Associate Program Director Lingo Lai, M.D. In 2025, the program expanded its annual cohort size to welcome five new residents to the Eye Institute each July.

During their first year of training, the residents serve as hospital interns, providing them with a well-rounded background in all areas of medicine. As first-year interns, residents spend three months on ophthalmology rotations and the remaining nine months on rotations spanning a variety of medical specialties, such as internal medicine, emergency medicine, pediatrics and plastic surgery.

Throughout the following three years of their training, residents will undergo rotations in all areas of ophthalmology, including comprehensive ophthalmology, medical and surgical retina, glaucoma, pediatric ophthalmology, neuro-ophthalmology, oculoplastics and cornea. Supported by a diverse faculty specializing in all areas of visual sciences, residents receive an extensive and varied background in ophthalmology as they rotate through each specialty service multiple times during their three years of dedicated ophthalmology training. Residents also rotate each year at the Louis A. Johnson VA Medical Center in Clarksburg, where they provide critical ophthalmic services to local veteran patients in need.

Narrowing Focus and Expanding a Skillset through Fellowships

For those looking to specialize further following residency, the Department of Ophthalmology and Visual Sciences offers four unique fellowship programs in the areas of cornea, glaucoma, ophthalmic plastic and reconstructive surgery and surgical retina.

Each fellow serves as a member of the Department's faculty and functions as an instructor and mentor to residents and medical students in addition to their clinical duties. Throughout their training, fellows will work closely with Eye Institute physicians in their given subspecialty area, gradually developing their skills and knowledge to work independently in the clinic and operating room.



Cornea Fellowship Program

The Cornea Fellowship Program prepares eye physicians to confidently manage a wide range of corneal cases both medically and surgically. The one-year program accepts one fellow per year and is led by Program Director Lingo Lai, M.D., and supported by Cornea Specialists Annahita Amireskandari, M.D., Lena Chen, M.D., Evan Frigoletto, M.D., and Thomas Mauger, M.D.

During their training, fellows can expect to encounter a full range of common and complex corneal diseases and surgeries, including PK, DALK,

DSAEK, DMEK, K Pro, ocular surface reconstruction, corneal neurotization, LASIK/PRK, PTK, anterior stromal puncture and corneal crosslinking. Fellows will also be provided with ample opportunities to improve and expand their cataract surgery skills.



Glaucoma Fellowship Program

The Glaucoma Fellowship Program provides an advanced level of subspecialty training in the diagnosis and management of medical and surgical glaucoma. The one-year program accepts one fellow per year and is led by Program Director Brian McMillan, M.D., and supported by Glaucoma Specialists Kevin Halenda, M.D., Joel Palko, M.D., and Tony Realini, M.D., MPH.

Throughout their training, fellows provide outpatient glaucoma care alongside faculty three to four days per week, seeing between 110 and 120 patients in a typical week. Additionally, fellows accompany faculty to the operating room one to two days per week to either perform or assist in 10-15 glaucoma surgical cases each week. Fellows can expect to serve as the primary surgeon on 40-50 trabeculectomy and/or tube shunt procedures, 70-80 MIGS procedures, more than 100 phacoemulsification procedures and laser procedures, and a variable number of revisions, examinations under anesthesia and other miscellaneous cases during their one year of training.



Ophthalmic Plastic and Reconstructive Surgery Fellowship Program

The Ophthalmic Plastic and Reconstructive Surgery Fellowship Program provides fellows with a well-rounded training experience, with a particular emphasis on the disease and surgery of the orbit. The two-year ACGME-accredited program accepts one fellow per year and is led by Program Director John Nguyen, M.D., and supported by Oculoplastics Specialist Bradley Thuro, M.D.

Over the two years of ophthalmic plastic and reconstructive surgery training, fellows can expect to collaborate closely with various services throughout the WVU Medicine network, including plastic surgery, neurosurgery, otolaryngology, radiology and dermatology. Fellows will also become members of the WVU Skull Base Team and the Vascular Malformation Program, where they will participate in all aspects of clinical evaluation, preparation, surgery and follow-up care.

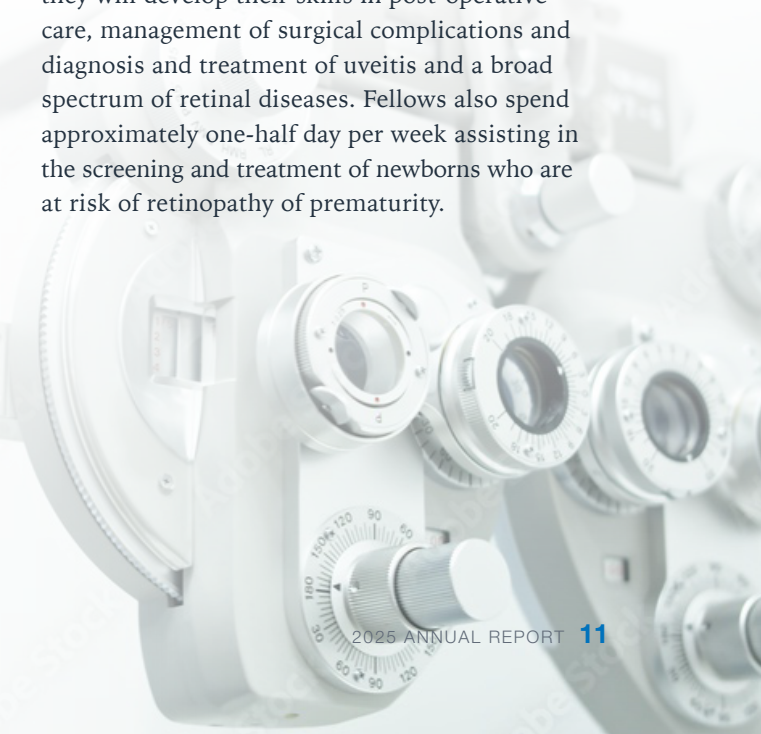


Vitreoretinal Fellowship Program

The Vitreoretinal Fellowship Program provides physicians with extensive training in areas such as medical retina, surgical retina, ocular oncology and uveitis pathology. The two-year program accepts one fellow per year and is led by Program Director Ghassan Ghorayeb, M.D.,

MBA. It is supported by Retina Specialists L. Carol Laxson, M.D., Ph.D., Monique Leys, M.D., EBO, Nicole Pumariega, M.D., and Kumar Sambhav, M.D.

The fellow will primarily work alongside faculty vitreoretinal surgeons, but will also provide support to medical retina services as needed. Fellows will spend two to three days per week in the operating room with faculty surgeons, where they can expect to perform approximately 100 primary retinal surgeries during their first year of training and more than 450 surgeries by the conclusion of their second year of training. Additionally, fellows spend approximately three days per week in the clinic alongside faculty, where they will develop their skills in post-operative care, management of surgical complications and diagnosis and treatment of uveitis and a broad spectrum of retinal diseases. Fellows also spend approximately one-half day per week assisting in the screening and treatment of newborns who are at risk of retinopathy of prematurity.



Making an impact on our community

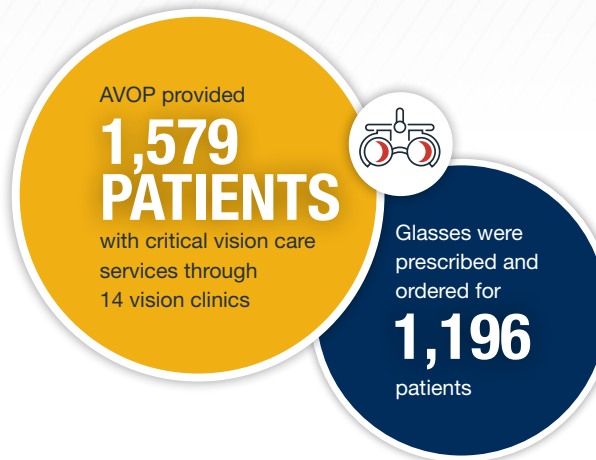
At the West Virginia University Eye Institute and Department of Ophthalmology and Visual Sciences, we are dedicated to our overarching mission of addressing visual disparity, preventing blindness and improving access to eye care for all patients across West Virginia and the surrounding region.

This initiative is bolstered by three unique statewide outreach programs – the Appalachian Vision Outreach Program, the Adult Low Vision Program and the Children’s Vision Rehabilitation Program – each aimed at delivering much-needed ocular care to specific demographics. These programs are led by WVU Eye Institute Director of Outreach Rebecca Coakley, MA, CLVT, and supported by a diverse team of professionals.

Providing ocular care for all West Virginians

The Appalachian Vision Outreach Program (AVOP) provides dedicated vision care to patients from across the state and region who may not have access to regular eye care due to geographic or financial barriers.

Several times per year, a team from the Eye Institute travels to various locations throughout the state to host AVOP clinics for patients, where they provide services such



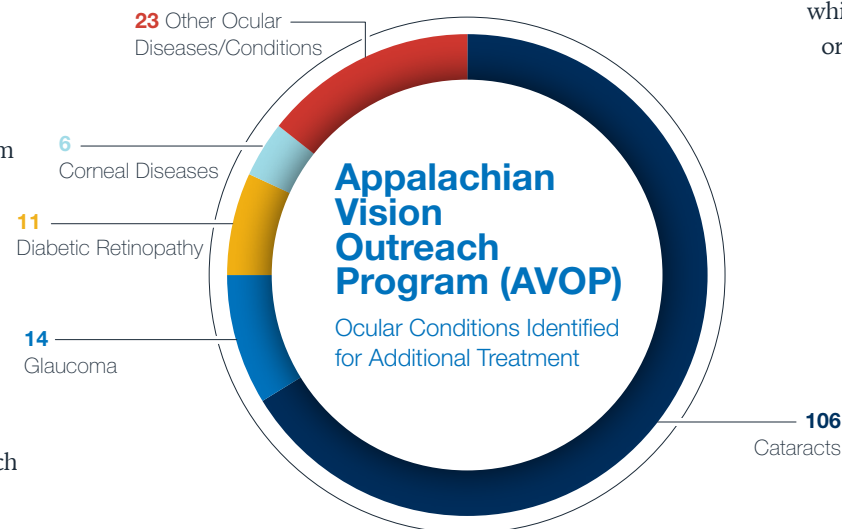
as vision screenings, eye exams, glasses prescriptions and referrals for additional care. While they are exclusively held at locations across West Virginia’s 55 counties, the AVOP clinics typically attract in-need patients from all over the surrounding states and region.

In 2025, AVOP provided 1,579 patients with critical vision care services at 14 vision clinics in 12 West Virginia communities. Glasses were prescribed and ordered for 1,196 patients and a total of 160 patients received referrals for additional care from Eye Institute ophthalmologists.

Targeted care for patients with low vision

The Adult Low Vision Program (ALVP) is dedicated to meeting the daily needs of adult low vision patients, which is defined as those with a visual acuity of 20/70 or worse that cannot be fully corrected by corrective lenses, medication or surgical intervention.

The program provides care for these patients through in-depth vision evaluations performed by certified low vision therapists and opportunities for follow-up training on the usage and operation of every day adaptive devices and technology such as screen readers and speech synthesizers. ALVP also offers training with orientation and mobility devices such as white canes, with the goal of helping patients reclaim access to activities that were previously lost due to visual impairment.



(continued)



 2025 AVOP Clinic Locations

- | | |
|--------------|------------------|
| Charleston | Beckley |
| Wheeling | Huntington |
| Weirton | Summersville |
| Charles Town | Clarksburg |
| Parkersburg | Camden-on-Gauley |
| Morgantown | Webster Springs |

 2025 CVRP Clinic Locations

- Charleston
- Fayetteville
- Huntington
- Morgantown
- Parkersburg

Dedicated support for children with blindness and visual impairment

The Children's Vision Rehabilitation Program (CVRP) is a needs-based program that provides support, education and training to children with blindness and visual impairment, along with their parents, teachers and related professionals in West Virginia.

CVRP is dedicated to providing comprehensive vision rehabilitation services to school-aged children from across the state who are blind or

visually impaired, regardless of their ability to pay. A primary aim of the program is to give children the necessary skills and tools to achieve independence and employability by optimizing visual function. CVRP provides students with access to the visual environment through medical eye care services, optical devices, assistive technology, educational recommendations, support to local school districts and unique educational events known as Institutes of Learning.

A CVRP student tests his braille literacy skills during the Braille Challenge, an annual regional competition for students with blindness or visual impairment.



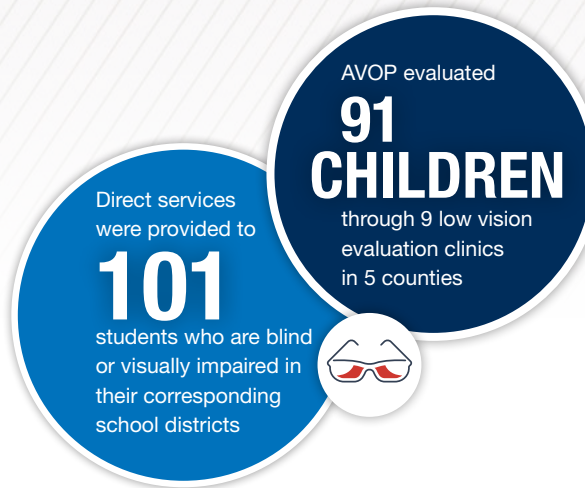
Breaking barriers through Institutes of Learning

Several times throughout the year, CVRP hosts specialized educational events for students known as Institutes of Learning at various locations across the state. These events are designed to provide a forum for children with blindness and visual impairment to receive direct instruction on specific skills such as utilizing assistive technology, orientation and mobility training, and developing independent living and self-help skills. The Institutes of Learning are typically multi-day camps that are held throughout the year.

In 2025, CVRP hosted seven Institutes of Learning, each focused on providing a unique experience for students, with a total of 200 children in attendance across the different camps.

Evaluating children's needs through low vision Screenings

CVRP provides children from across the state with comprehensive low vision evaluations through a series of traveling clinics led by a diverse team of professionals trained in all areas of low vision. These assessments focus on maximizing the use of functional vision for everyday tasks and provide actionable recommendations for increasing visual function across different environments.



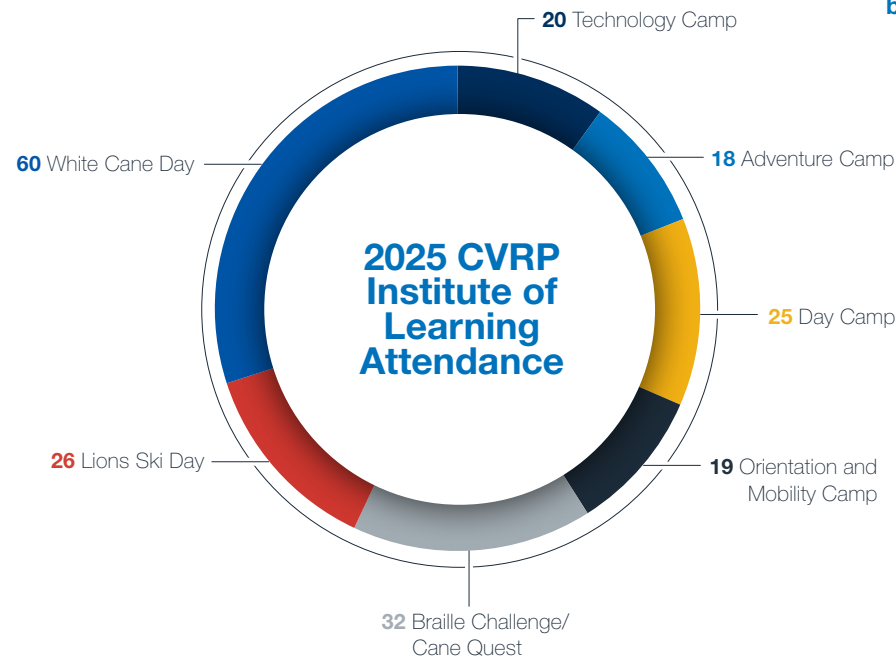
The team typically consists of an ophthalmologist, a low vision technician, a low vision therapist, a technology specialist, a teacher of the visually impaired and an orientation and mobility specialist. Following these in-depth assessments, the team will work with the students to explore a variety of tools, strategies and resources aimed at increasing their independence and employability.

In 2025, CVRP evaluated a total of 91 children through nine low vision evaluation clinics in five locations across the state.

Addressing daily needs of children with blindness and visual impairment

CVRP team members regularly travel to school districts across the state to provide direct support to students in the classroom. This approach provides a candid look at the issues and barriers that children with blindness and visual impairment face on a daily basis, while also exploring which further educational needs must be addressed by related professionals throughout the state and region.

In 2025, direct services were provided to 101 blind or visually impaired students in their corresponding school districts.





Local youth with blindness and visual impairment featured in new documentary highlighting WVU's Children's Vision Rehabilitation Program

Seven students enrolled in the West Virginia University Eye Institute's Children's Vision Rehabilitation Program (CVRP) got to experience what life is like as a movie star, as they walked down the red carpet to cheers from family, friends and the dedicated team of professionals who have helped shape their educational journeys.

The seven students were recently featured in a new documentary highlighting the program titled "Sight Unseen," which was screened for students, their families, faculty and staff of the Eye Institute and CVRP and community partners during a special event at the WVU Erickson Alumni Program in January.

One of those students was Kenzie Hayes, a junior at Oak Glen High School in Hancock County who has been enrolled in CVRP since she was three years old. She used the occasion to reflect on her journey through the program, saying she counts her friends and mentors in the program as her second family.

"CVRP is a place where I know I will always belong," she said. "It is a home where I know that I will never be excluded, my abilities will never be doubted and I will always have a friend to turn to and receive never-ending love and support. This program is a place where dreams can become reality."



Filmed over more than a year in locations across West Virginia, the documentary provides a glimpse into the lives of CVRP students and how their experiences through the program have helped them break down barriers and achieve independence.

“Through this program we aim to help these kids in any way we can, but our primary goal has always been to provide them with the necessary tools to become independent by optimizing visual function at home, school and beyond,” said Rebecca Coakley, MA, CLVT, director of outreach for the Eye Institute and program director for CVRP. “It is endlessly rewarding

to watch students like Kenzie grow as they excel through this program and towards achieving their personal, professional and educational goals.”

Throughout her time as a student at Oak Glen High School, Hayes has been active in theater, choir and the PEP Club, where she helps organize pep rallies and school events. She has also been selected as part of Hancock County’s Solo & Ensemble Team, where she competes against her peers at the state level.

“CVRP has given me the confidence to try new things, be myself and be an active member of my community,” Hayes said. “It has taught me that there

is nothing our sighted peers can do that we can’t also achieve. I feel so lucky to have grown up through this program and am honored to have been able to share my story through this documentary.”

“Sight Unseen” has not yet premiered for the public, but CVRP officials said plans are in the works for it to be hosted on a streaming service in the near future.

CVRP is an outreach program at the WVU Eye Institute and Department of Ophthalmology and Visual Sciences that responds to the needs of blind and visually impaired children, their parents and related professionals in West Virginia.

WVU Eye Institute Ophthalmologist Dr. John Nguyen reaches underserved patients through local and global outreach initiatives

Since joining the West Virginia University Department of Ophthalmology and Visual Sciences and Eye Institute faculty in 2009, Professor and Oculoplastic Surgeon John Nguyen, M.D., has dedicated his career to serving patients both near and far through local and global outreach efforts.

Morgantown-area screenings

In Morgantown, Dr. Nguyen played an integral role in the addition of vision screenings to WVU-led healthcare initiatives from the School of Nursing and the School of Pharmacy, which provide free healthcare services for underserved patients who are homeless or otherwise do not have access to regular care. The services are provided on the first Sunday of each month at First Presbyterian Church during a free pancake breakfast for community members.

Nguyen explained that the vision screenings can consist of a full dilated eye exam, a glaucoma screening where intraocular pressure is measured and referrals to the Eye Institute for follow-up care when necessary. If it is determined that a patient requires new glasses or an updated prescription, those are coordinated and distributed through the Eye Institute's Appalachian Vision Outreach Program and Milan Puskar Health Right.

"As physicians, it is our duty to serve all patients in our community, not just those with health insurance. This initiative allows us to meet underserved patients where they are and provide them with quality eye care so they can work on other aspects of their lives," Nguyen said.

Nguyen continues to provide support to this program, which is now led by Assistant Professor and Cornea Specialist Annahita Amireskandari, M.D. Various volunteers from the Eye Institute provide support for this monthly outreach event, including Assistant Professors Joel Palko, M.D., and Praveen Jeyaseelan, M.D., and WVU medical students with an interest in ophthalmology.

Outside of West Virginia, Nguyen has been involved in a wide array of global outreach efforts over the years, where he's provided care to underserved patients across the Caribbean and Central America.

St. Lucia outreach

For more than a decade, Nguyen has served as a volunteer for the program known as Kids Insight, where he has helped deliver critical oculoplastic services to local children with facial deformity and potentially devastating blinding diseases.

Through this program, which is a joint initiative of the St. Lucia Blind Welfare Association, the Lions Club of St. Lucia and the Eye Institute, a team of WVU ophthalmologists, including Assistant Professor Charles



Dr. John Nguyen, M.D. and Director of Outreach Rebecca Coakley, MA, CLVT evaluate a pediatric patient in Saint Lucia through Kids Insight.

"This initiative allows us to meet underserved patients where they are and provide them with quality eye care so they can work on other aspects of their lives."

JOHN NGUYEN, M.D.
professor, oculoplastic surgeon

Moore, M.D., and staff led by Director of Outreach Rebecca Coakley, MA, CLVT, travels to St. Lucia once per year for 1-2 weeks. The team provides services such as ocular surgeries, eye exams and low vision management to local patients in need, as well as educational training to local trainees. While the program primarily focuses on providing care for pediatric patients, Kids Insight also provides ophthalmic care to adults.

Nguyen has also helped deliver critical ophthalmic services to patients in Honduras through partnerships with the Carolina Honduras Health Foundation (CHHF) and the Advanced Center for Eyecare (ACE) Global.

Reaching patients and physicians in Honduras

In March 2025, Nguyen and former WVU ophthalmology resident and current WVU Medicine United Hospital Center ophthalmologist Clinton Jordan, M.D., traveled to Limón, Honduras, through CHHF, where they provided ophthalmic care to more than 200 patients and performed 25 ocular surgeries over five days.

Nguyen said he plans to continue his partnership with CHHF in the coming years and that he is excited to further expand their services when he returns to Honduras through CHHF in 2026.

While the CHHF initiative primarily focuses on delivering much-needed ophthalmic care directly to patients

in need, Nguyen's work with ACE Global in Honduras is instead aimed toward providing education and training to the next generation of ophthalmologists.

Through ACE Global, Nguyen travels to Honduras with a team of volunteers to provide surgical training to Honduran ophthalmology fellows with the aim of equipping them with the surgical skills to establish oculoplastic practices that will address visual disparity and blindness in their communities.

"When we do these trips where we provide direct care to patients, I am always proud of the impact we make, but at the end of the day, we can only be there so long, putting a limit on the number of patients we can reach," he explained. "Through training local physicians, I'm able to leave behind a skillset that can be utilized to continue helping others long after I've returned home."

Nguyen said he is honored to have played a role in outreach efforts both at home and abroad over the years and that he looks forward to continuing these endeavors in the years to come.

"Being able to travel the world and deliver ophthalmic services to people in need is my privilege. It allows me to experience different cultures, collaborate with medical professionals from around the world, and most importantly, meet and impact the lives of more patients than I otherwise would be able to," he said. "I look forward to exploring more ways to reach patients in need through these initiatives in the years to come."



WVU Eye Institute team members evaluate the vision of a pediatric patient during a global medical mission in Honduras.

Seeing Hope in Asuoso: WVU Eye Institute carries on decade-long tradition of providing vision care for Ghanaian patients

For more than a decade, a team from the West Virginia University Eye Institute, led by Professor and Executive Chair Thomas Mauger, M.D., has been traveling to one of the most remote regions of Ghana to deliver critical vision-saving eye care services to local patients.

The mission of these trips is two-fold. They provide an avenue for Ghanaian patients to receive highly specialized ocular care, while also serving as an ideal training opportunity that helps the next generation of ophthalmologists discover a true passion for service through medicine.

The initiative originally began through a partnership with Marion Remmerswaal, a nurse from the Netherlands who has provided medical outreach services to the region of Asuoso in Ghana throughout her career. Remmerswaal played a key role in the construction and opening of St. Theresa's Hospital in Asuoso in 2016.

That is where the team from the Eye Institute has been traveling to regularly over the last decade – not as part of a grant-funded program or institutional mandate, but out of a shared recognition for the profound need for high-quality eye care in the region.

"St. Theresa's Hospital has made incredible strides in improving the overall health of countless patients throughout the past decade, but with care for highly specialized ocular diseases like glaucoma only available in more urban regions like the capital, patients

are often unable to seek the care they need due to geographic or financial barriers," Dr. Mauger explained.

To bridge this gap, the Eye Institute has partnered with the team from St. Theresa's Hospital to establish a multi-day clinic at the hospital, which delivers critical sight-saving surgeries and ocular disease management to local patients in need. Far from a solo effort, these medical missions serve as a vital hands-on training opportunity that introduces fellow WVU ophthalmologists to global medical outreach.

"Global ophthalmology initiatives like the work we do in Ghana provide a unique learning opportunity for our team members as it exposes them to a wide range of complex diseases that they wouldn't usually see at the Eye Institute, while they learn how to practice in a new environment with fewer available resources," Mauger said. "This requires them to practice new diagnostic treatment methods and surgical techniques, helping them become more well-rounded and independent ophthalmologists."

When Mauger returned to Asuoso for his most recent trip in October 2025, he was accompanied by Assistant Professor Evan Frigoletto, M.D., and Vitreoretinal Fellow Ami Patel, M.D. Together over five days, the team treated 201 patients, consisting of 120 glaucoma laser surgeries, 59 cataract surgeries, 10 pterygium procedures, and 12 additional non-surgical treatments.

Assistant Professor Evan Frigoletto, M.D., and Vitreoretinal Fellow Ami Patel, M.D., pose next to the sign for St. Theresa's Hospital in Asuoso, Ghana.





THOMAS MAUGER, M.D.
professor, executive chair



EVAN FRIGOLETTO, M.D.
assistant professor



AMI PATEL, M.D.
vitreoretinal fellow

**Ghana,
AFRICA**

For Dr. Frigoletto, who joined the Eye Institute faculty in 2025 following his graduation from the Cornea Fellowship Program, this marked his first opportunity to practice ophthalmology outside the United States and the standard hospital system.

“Having trained under Dr. Mauger during my residency and fellowship, I was particularly honored to work alongside him as a colleague in Asuoso and contribute to his personal mission of eradicating preventable blindness on a global scale,” Frigoletto said. “It required a lot of long hours and hard work, but seeing the look on a patient’s face after they receive a treatment that they previously thought they would have to go a lifetime without makes it all worth it.”

Frigoletto explained that he was originally supposed to make the trip to Ghana while he was a fellow, but that it had to be pushed back several

months due to scheduling reasons. Attending as a faculty member instead of a trainee, however, afforded him the opportunity to become more involved in the process of planning the trip, a role he said he hopes to reassume in the future.

“I’ve been interested in becoming involved in global ophthalmology outreach initiatives since beginning my training at the Eye Institute several years ago, and am very proud to have finally made that goal a reality through this initiative in Ghana. I hope I can continue to contribute to this cause and other similar outreach initiatives in the future, as part of my commitment to the Eye Institute’s overarching mission of preventing blindness and providing the best vision care possible to all patients.”

The team from the Eye Institute typically makes the trip to St. Theresa’s Hospital every other year and hopes to return to the region in 2028.

WVU Ophthalmology Residency Program inspires graduates to pursue careers in community-based medicine

The primary role of any physician is to meet patients' individual needs and improve healthcare outcomes on a large scale. Graduates from the Ophthalmology Residency Program at the West Virginia University School of Medicine are taking that mission one step further, as they build lasting relationships with patients by embedding themselves within the communities where they practice.



Building on Community Connections: A legacy of outreach



Paul McConnell, M.D. ('10), has spent the last 16 years practicing at EyeOne in the rural community of Staunton, Virginia, where he specializes in comprehensive

ophthalmology, as well as cataract and glaucoma surgery. He credits his training experiences at WVU for making him fall in love with the idea of practicing medicine in an area where he can become an integral part of the community.

"For me, the draw to practicing in areas like West Virginia and rural Virginia is the lasting relationships you build with your patients, some of whom I've been seeing since my arrival more than a decade and a half ago," he said. "With community medicine, you aren't just seeing a patient; you're seeing a friend, a neighbor, or even a member of your family."

McConnell's passion for community medicine began to blossom during his residency training, where he was given the opportunity to accompany the then-chair of the department, Judie Charlton, M.D., to one of the most remote areas of the state. Together, they would travel to a clinic in Gilbert, where they would

provide free ophthalmic services to a community of rural patients who would otherwise likely not receive eye care due to geographic or financial barriers.

"Dr. Charlton's patience and ability to connect with the patients made them feel that, despite their situation, whatever it may be, there are still physicians who care for them and are willing to take whatever measures necessary to provide them with the care they need and deserve," McConnell said. "This is something I have tried to implement in my own patient interactions throughout my career, as I work to address the vision needs of patients in rural Virginia and beyond."

The residency program continues to build on Dr. Charlton's legacy and dedication to patient connection by providing opportunities for residents to support the state's blind and visually impaired youth, undergo rotations at the Louis A. Johnson VA Medical Center and care for local veterans, and participate in a wide range of local or global ophthalmology outreach initiatives.

McConnell delivers targeted ophthalmic care to isolated patients in rural communities by participating in a series of Remote Area Medical Clinics, which provide free services such as eye exams and glaucoma screenings to patients without requiring them to travel long distances to the clinic themselves.



Rooted in Service: Addressing disparity in the Mountain State



While many former residents have gone on to practice in various rural and urban communities across the country, several graduates have decided to remain in West Virginia following their training, carrying on the Eye Institute's mission of addressing visual disparity in the Mountain State.

Christian Warner, M.D. ('22), has spent the last four years practicing at Marshall Eye Surgeons in Huntington, West Virginia, where he specializes in various versions of cataract and upper eyelid surgeries. He said he is grateful to have remained in West Virginia following his training, where he now focuses on addressing the vision needs of patients from rural areas in the southern part of the state.

"The need for high-quality vision care in this state is great, and that can be even more true in remote, rural areas such as the southern-most counties," Dr. Warner explained. "My training at WVU exposed me to a diverse patient population, with a wide range of unique traumas and pathologies across the broad spectrum of ophthalmology. This made for a challenging, but incredibly rewarding training experience, that has proved invaluable during my first several years of practicing ophthalmology in southern West Virginia."

Warner said that while there were many faculty members who served as valuable mentors to him throughout his training, it was Assistant Professor Charles Moore, M.D., who most directly compounded his interest in medical outreach initiatives.

"I was particularly inspired by the wide range of community outreach projects that Dr. Moore was constantly involved in, and by how much of his time that he dedicated to traveling throughout the state to provide eye care to rural patients who might otherwise go a lifetime without it," Warner said. "That strong sense of selflessness and dedication to a community is something I try to draw on in my everyday practice."

Now in his 30th year with the department, Dr. Moore continues to inspire the next generation of ophthalmologists by providing critical support to outreach programs such as the Children's Vision Rehabilitation Program and the Appalachian Vision Outreach Program and continued involvement in community outreach initiatives both at home and abroad.

Inspired by Moore's commitment to service and community partnerships, Warner said he teams up with various outlying optometry and ophthalmology practices across the region to provide on-site care and

"I was particularly inspired by the wide range of community outreach projects that Dr. Moore was constantly involved in [...] That strong sense of selflessness and dedication to a community is something I try to draw on in my everyday practice."

follow-up to patients who would otherwise be subject to very long drives following surgical procedures that require multiple return visits.

He also structures his clinical visits to allot time for him and his team to diagnose a patient, discuss potential treatment options, and in some cases, perform laser or minor plastics procedures all in one visit, helping patients avoid the hassle of scheduling and traveling to multiple appointments.

"The true sign of having a great mentor as a medical trainee is being able to incorporate elements of their work style into your future everyday practice," Warner explained. "I am fortunate to have had outstanding mentors like Dr. Moore during my residency training, and hope that I can continue to honor his mission as I work to address visual disparity in southern West Virginia."

Rotations at local VA provide WVU ophthalmology residents with unique learning experiences and opportunities to give back to veterans

Through regular rotations at the Louis A. Johnson VA Medical Center in Clarksburg, ophthalmology residents at the West Virginia University School of Medicine get the opportunity to grow as physicians while simultaneously delivering highly specialized eye care services to veteran patients in need.

Residents are accompanied by different Eye Institute faculty physicians each day and provide either specialty or comprehensive eye care services to patients, depending on the currently rotating faculty member's subspecialty.

Omar Sadat, M.D., a third-year resident in the Department of Ophthalmology and Visual Sciences Residency Program, said that while the faculty members rotating alongside them at the VA are there to provide support and guidance, these rotations are specifically designed to provide opportunities for residents to become more independent and confident physicians.



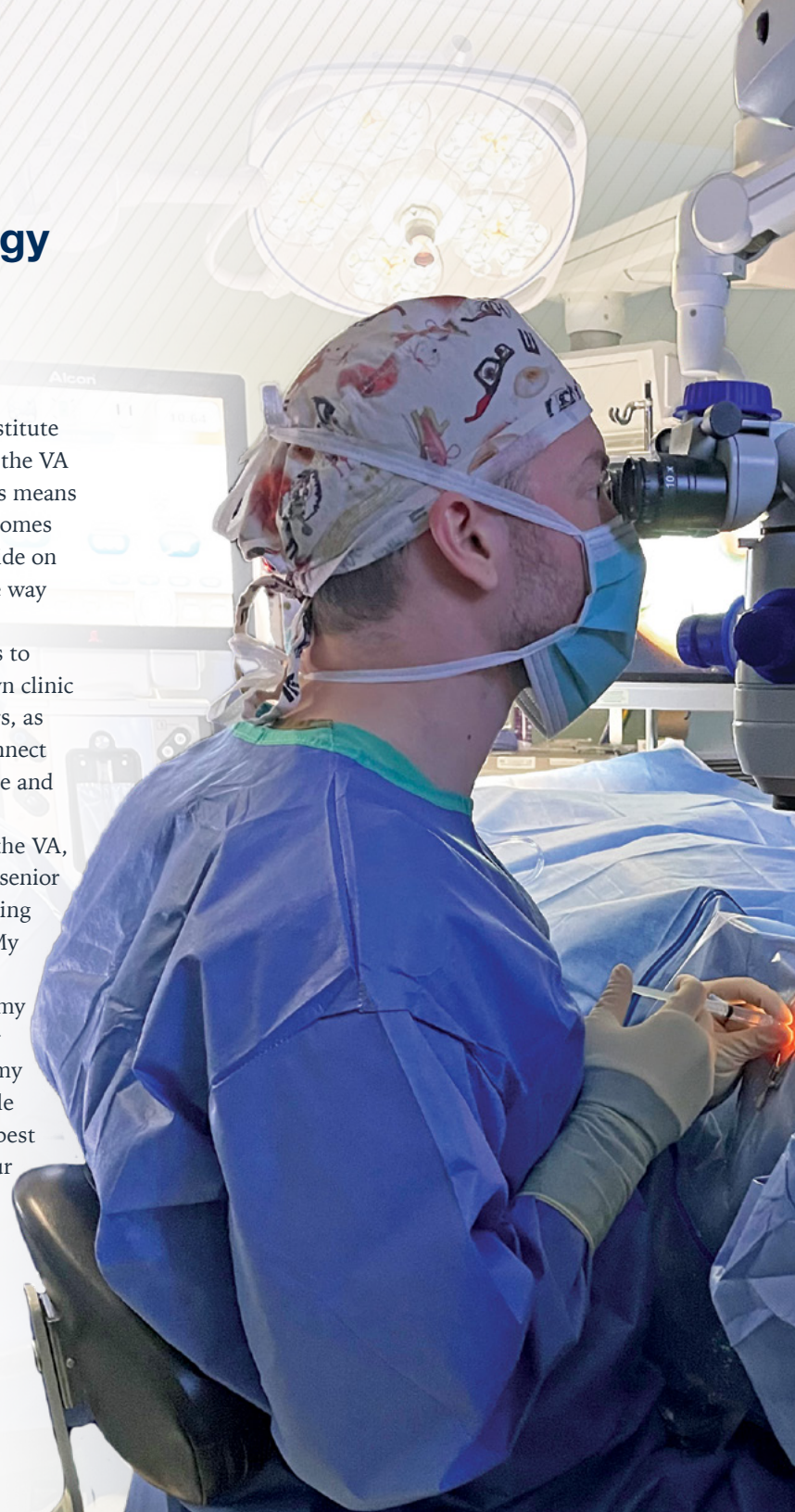
"We are very honored to have the opportunity to give back to the local veterans who have sacrificed so much for us."

OMAR SADAT, M.D.
third-year resident

"Unlike the clinical rotations at the Eye Institute that are run by attending faculty, the clinic at the VA is primarily resident-run," he explained. "This means that ultimately, the clinical decision-making comes down to us. We form the treatment plan, decide on follow-up windows and see the patient all the way through the treatment process."

Dr. Sadat said this system allows residents to experience what it will be like to run their own clinic as attending physicians later in their careers, as the program also allows residents to connect with one another for support, guidance and mentorship.

"During my first year rotating at the VA, I was able to learn so much from my senior residents by working alongside them. My senior residents were and still are my role models. They inspire me to do my best to fill that role and try to be the best mentor I can to our junior residents," he said.





Ophthalmology Resident Omar Sadat, M.D., performs cataract surgery on a patient at the Louis A. Johnson VA Medical Center in Clarksburg.



WVU Ophthalmology residents enjoy lunch together during a rotation at the Louis A. Johnson VA Medical Center in Clarksburg.

WVU ophthalmology residents spend 12 weeks rotating at the VA each year during their three years of specialized ophthalmology training, with one fourth-year, one third-year and one second-year resident present at the VA each day.

Patients benefit from a variety of specialty services, including glaucoma, retina, cornea and oculoplastic care, with a full complement of surgical procedures that are performed on-site at the VA.

“Many patients at the VA wouldn’t be able to regularly travel to Morgantown for specialized services, which often require multiple follow-up appointments. This initiative allows us to circumvent those barriers of care and provide them with direct access to all of our ophthalmic services.

“We are very honored to have the opportunity to give back to the local veterans who have sacrificed so much for us,” he continued. “They are incredibly humble and appreciative of the care we provide. As a native West Virginian, with the goal of ultimately practicing ophthalmology in this region and providing care for underserved community members, I am very proud to have been given this opportunity at the VA.”

The WVU Eye Institute has partnered with the Louis A. Johnson VA Medical Center for more than 20 years, playing a crucial role in the delivery of critical healthcare services to thousands of local veterans. In 2025 alone, Eye Institute physicians provided care to more than 4,000 local veterans and performed nearly 500 ocular surgeries at the VA.

WVU Eye Institute outreach initiative provides residents with opportunity to deliver critical vision evaluation services to WVSDB students

An outreach initiative at the West Virginia University Eye Institute is providing a unique training opportunity for ophthalmology residents, as they travel to the state's lone specialized school for blind and deaf children to deliver critical vision evaluation services.

Twice a year, a team from the Eye Institute travels to the West Virginia Schools for the Deaf and the Blind (WVSDB) in Romney, West Virginia, to host an all-day eye clinic for students at the school. The team is led by Pediatric Ophthalmologists Geoff Bradford, M.D., and Ryan McGuire, M.D., and typically includes an orthoptist, an ophthalmic technician and the resident who is rotating in pediatric ophthalmology at the time of the trip.

Third-year ophthalmology resident Bobby Finley, M.D., accompanied the team on their recent trip in October 2025, which he described as a great opportunity for him to broaden his ophthalmic evaluation skills while also making a positive impact.

"The West Virginia Schools for the Deaf and the Blind enroll many students from across the entire state who have highly specialized low vision needs, often stemming from complex ocular diseases that require regular eye exams and follow-up care," Dr. Finley explained. "This provides a great learning opportunity to us as residents, exposing us to

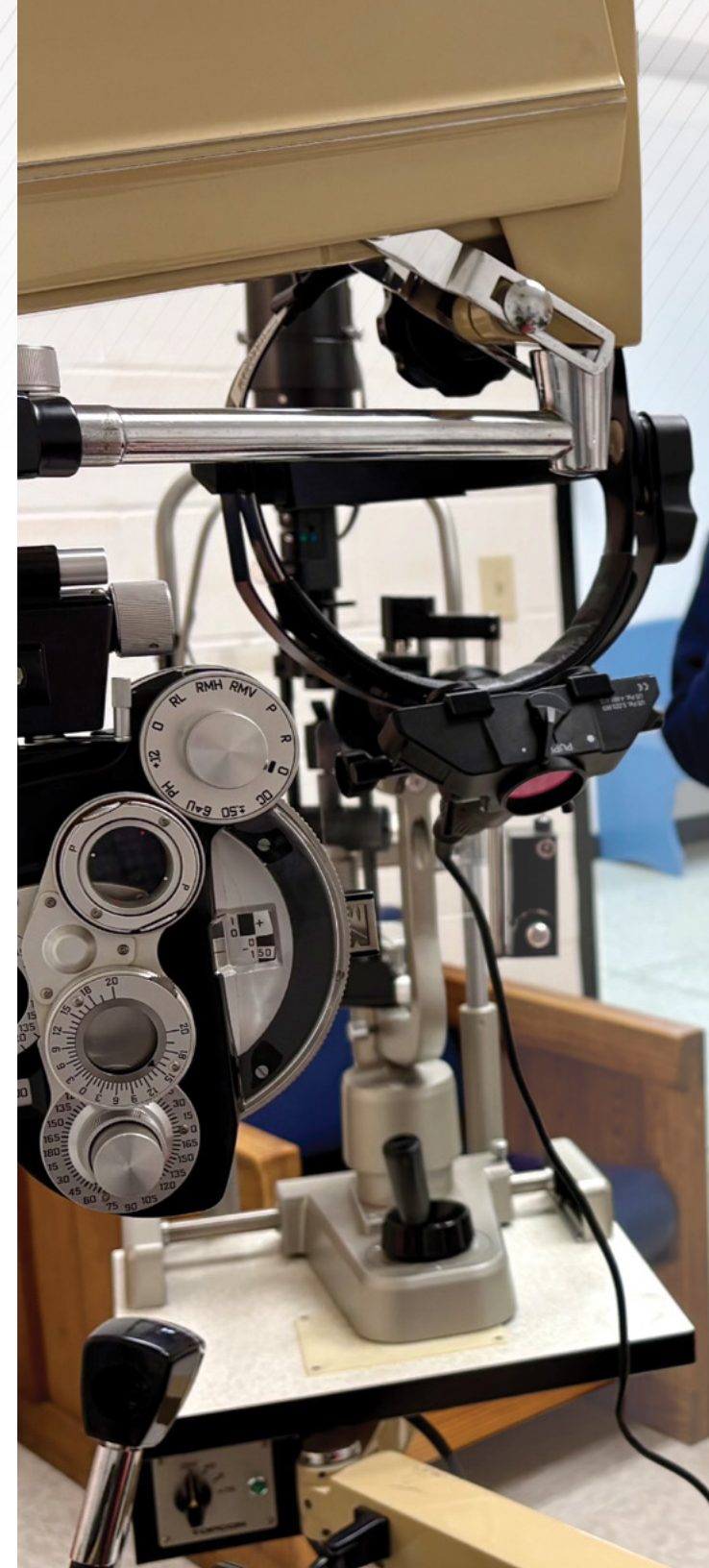
an abundance of rare ocular cases, while more importantly, allowing us to provide these students with the high-quality eye care services they need from the comfort and convenience of their classrooms."

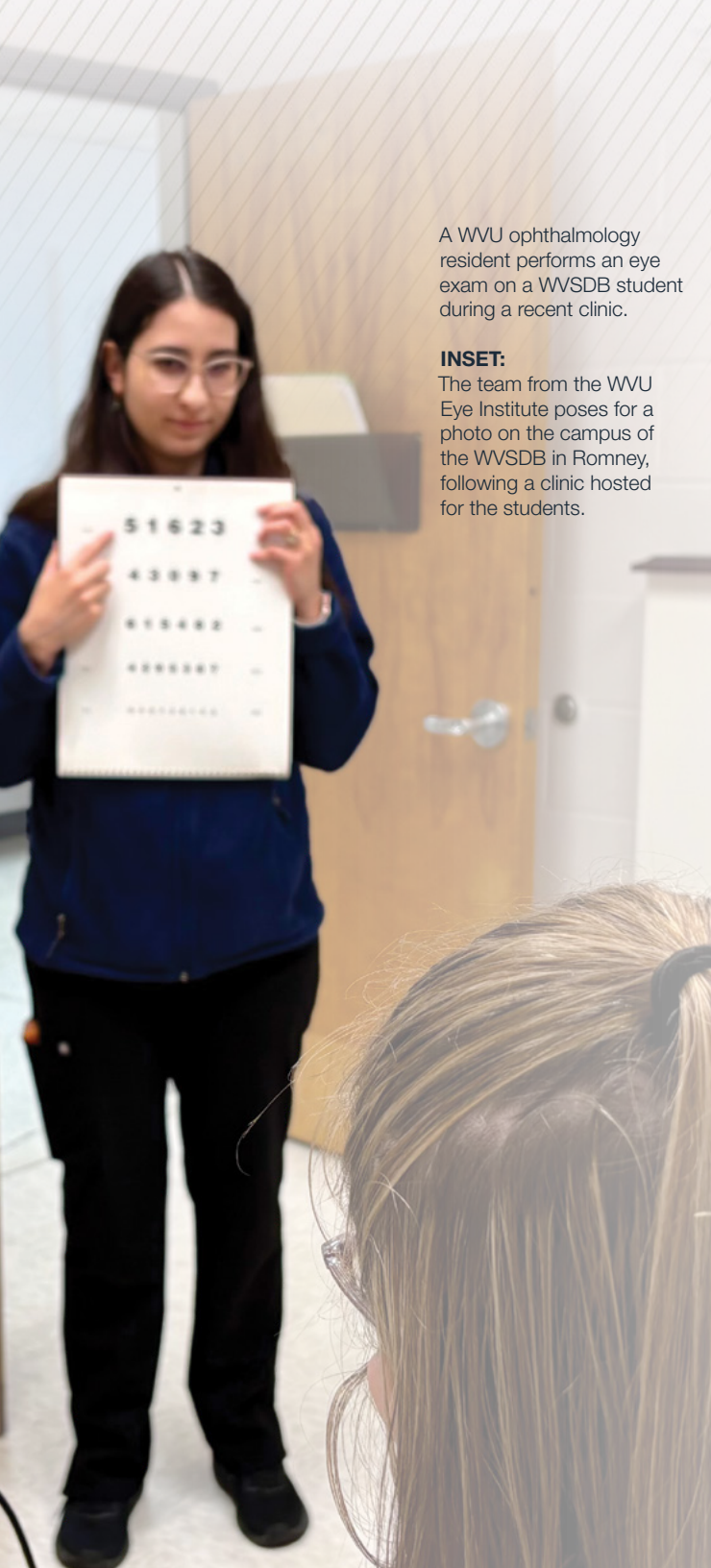
Finley explained that the clinics provide all students enrolled at the WVSDB with full, in-depth eye exams to identify any pathological changes in their eyes and to determine if their eye disease is stable or requires additional medical care. If it is determined that the students require follow-up care at the Eye Institute or need an updated glasses prescription, the team will work with school administration to provide transportation to Morgantown or deliver new corrective lenses to the students.

Finley said he was grateful to be selected to accompany Drs. Bradford and McGuire to Romney in October, which provided him with his first opportunity to practice outside of the usual hospital environment.

"It was a really great experience to travel to the school and practice ophthalmology in an environment that is specifically designed to cater to the needs of students with blindness or visual impairment. I was able to learn a lot about the issues these students face on a daily basis, and how we as ophthalmologists can work with them to help them reach their visual potential."

He added that the traveling clinic also teaches residents how to work with fewer resources, helping





A WVU ophthalmology resident performs an eye exam on a WVSD student during a recent clinic.

INSET:

The team from the WVU Eye Institute poses for a photo on the campus of the WVSD in Romney, following a clinic hosted for the students.



"I was able to learn a lot about the issues these students face on a daily basis, and how we as ophthalmologists can work with them to help them reach their visual potential."

ROBERT FINLEY, M.D.
third-year resident



them improve their troubleshooting and problem-solving skills, while showing them how much they can still accomplish, despite not having all the resources available at the Eye Institute.

While the main focus of this initiative is to provide eye examinations for the blind and low vision students enrolled at the school, the team also provides evaluations to the deaf and low hearing students to ensure they are maintaining proper eye health.

In addition to the medical vision evaluations provided through these clinics, the WVU Eye Institute also provides functional vision assessments for blind and visually impaired students from across the state through the Children's Vision Rehabilitation Program, led by Rebecca Coakley, MA, CLVT. These assessments are performed by low vision specialists and are designed to determine how an individual's reduced vision affects their daily life.

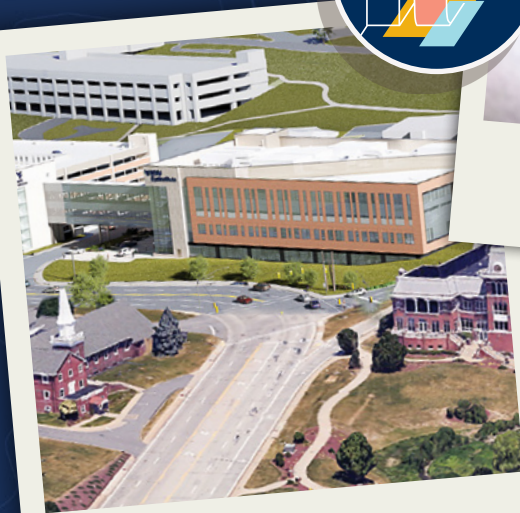
The WVSD is a tuition-free, state-supported school for K-12 students in West Virginia with low vision or low hearing needs. The school has been open for more than 150 years, having originally opened in September of 1870.

"It is very gratifying to have had the opportunity to participate in this initiative and provide this crucial support to these students," Finley said. "It was truly inspiring to meet all of these kids, learn about their journeys and hear about all the things they accomplish despite their limited vision. As I look ahead to my final year of residency training, I hope that I can continue to take advantage of any opportunity I have to support the state's blind and visually impaired youth."

How WVU became my home

We asked five of our faculty members the following two questions:

- 1 What is it that initially made you want to practice and/or train at WVU and the WVU Eye Institute?
- 2 What is it that makes WVU and the WVU Eye Institute “home” to you?



THOMAS MAUER, M.D. Professor & Chair

I was drawn to WVU because I was aware of the great need for eye care in this state and the surrounding Appalachian region. In the years since, we have made significant strides in addressing visual disparity in West Virginia, and I look forward to continuing to strengthen this mission with the opening of the new Eye Institute in 2027.

It is easy to feel at home when you are constantly surrounded by people who feel like family. From our outstanding team at the Eye Institute, to our WVU Medicine peers and our diverse patient population from across the state, I've found the people of West Virginia to be kind and generous. That is what makes it my home.



ANNAHITA AMIRESKANDARI, M.D. Assistant Professor

When I first interviewed here for residency, I felt so welcomed by everyone. I could immediately see how well the faculty, trainees and staff work together to provide the best care possible for patients. I wanted to become a part of that family. I am so grateful to have had the opportunity to join this wonderful faculty following my residency and fellowship training.

The main thing that makes the Eye Institute feel like home to me is the people. We really have an incredible team of faculty, staff and trainees who genuinely care about one another and all of the patients we serve. It makes it easy to feel at home when you are surrounded by others who feel like family.



LENA CHEN, M.D. Assistant Professor

I was initially drawn to WVU for my cornea fellowship training because of the diverse patient pathology and extensive surgical experience. I was also excited by the opportunities to be exposed to various other subspecialty areas, thanks to the multidisciplinary faculty at the Eye Institute that spans all areas of visual sciences.

I chose to remain at the Eye Institute as a cornea physician and make WVU my home because of the great effect this community has had on me as a person, and as a physician. I am grateful to continue working with my excellent mentors and patients, as I work to help meet the continued need for ophthalmic care in the region.



NICOLE PUMARIEGA, M.D. Assistant Professor

I decided to come to WVU for my retina fellowship training because of the proximity to family and the outstanding reputation of the academic programs. I arrived here with the intention of gaining my footing as a retina specialist and found not only that, but also a new home.

The thing that makes the Eye Institute and Morgantown feel most like home is my retina family. I am constantly surrounded by wonderful people, including our techs, scribes, trainees and my fellow retina specialists. We deal with highly complex retinal diseases that are referred to us from all over the state and region, but still find a way to face every day with a positive attitude and a smile on our faces.



PRAVEEN JEYASEELAN, M.D. Assistant Professor

After my dual fellowship training in neuro-ophthalmology and pediatric ophthalmology, I was looking for an opportunity where I could practice both subspecialties including adult cataract surgeries and the WVU Eye Institute was one of the few places in the country that provided a unique platform for such practice.

I could visualize good career growth considering the need for both sub-specialties in the state, and I was excited by the opportunities to provide support to academic programs like the ophthalmology residency.

The WVU Eye Institute is an ideal place to practice, with a wonderful teamwork-heavy atmosphere and friendly fellow faculty members, staff and trainees complemented by a diverse patient population. It is satisfying to be in a higher referral center where complex medical issues can be referred for further management. Support from WVU Medicine gives us the unique advantage of easily being able to partner and consult with other medical and surgical specialties. This is especially advantageous to me, as neuro-ophthalmology is often at the crossroads of many other medical specialties.

WVU summer research program helps students explore vision through basic science and clinical research projects

Students from universities across the country are gaining valuable insight into preventing vision loss through West Virginia University's Summer Undergraduate Research Vision Research Fellowship Program.

The program is a 10-week, full-time, vision research-focused internship hosted on the WVU Health Sciences Campus. Supported by faculty in the Departments of Ophthalmology and Visual Sciences and Biochemistry and Molecular Medicine, the program provides students with basic biochemistry and visual neuroscience research experience in areas that explore blinding diseases and new diagnostic treatment methods.

Students accepted to the program in 2025 included University of North Carolina at Chapel Hill junior Julie Munsoor, who was inspired to pursue a career in visual sciences by her grandmother.

"Growing up, my grandmother was diagnosed with glaucoma and macular degeneration and steadily lost her functional vision," she explained. "I got to see firsthand how important vision is, and realized the resilience you must have to persevere through vision loss. Like many elderly patients, several factors contributed to her vision loss. I'm interested in better understanding these factors so I can help people like her protect and maintain their vision."

Upon being accepted to the program and arriving on WVU's Health Sciences Campus in May, Munsoor was

paired with Professor and Glaucoma Specialist Joel Palko, M.D., to examine glaucoma from different perspectives.

Munsoor's primary focus was a clinical research study co-led by Dr. Palko and WVU School of Public Health Professor Ranjita Misra, Ph.D. The study aimed to examine and address the barriers that rural West Virginians face in receiving timely glaucoma care.

"Management of glaucoma is a longitudinal process that requires regular follow-up with specialty physicians," Munsoor explained. "But for patients from rural areas who may be required to travel far to receive specialty care at the Eye Institute, that process may not be so simple. We aim to better understand the factors that may lead to glaucoma patients not maintaining follow-ups and determine methods to streamline that process for them in the future."

Munsoor served as the primary data collector on this project, where she utilized patient databases to collect information such as the distance glaucoma patients are required to travel for appointments and how often they may miss or cancel follow-up appointments. In addition to gathering this data, she also read and studied several academic





Summer Undergraduate Vision Research Fellowship Program student Julie Munsoor performs an experiment in the WVU Health Sciences laboratory space.

publications on topics such as glaucoma and barriers to access to care to see how documented research in these areas could be applied to this project.

Munsoor also contributed to a basic science research project led by Palko that examined the effects of low blood pressure on the optic nerve amongst patients with glaucoma.

She assisted in data collection and imaging for this project, where she utilized high-powered microscopes and machine learning models to observe and quantify the damage done to the optic nerve in disease models of glaucoma with low blood pressure.

“This was one of the first opportunities I’ve had to work in a laboratory space and conduct hands-on research myself. It was exciting to be able to visualize optic nerve damage in real-time and to see the changes between a damaged and non-damaged optic nerve with my own eyes. It’s fascinating to see these pathways at work,” she said.

As the Summer Undergraduate Vision Research Fellowship Program continues to grow and expand with each passing year, Palko highlighted the importance of exposing students to both clinical research and basic science research opportunities.

“These projects provide complementary perspectives on the same overarching goal –

preventing vision loss in patients with glaucoma,” Palko said. “For students enrolled in this program, like Julie, who are still discovering their research interests, receiving exposure to both of these aspects is invaluable. It helps young aspiring researchers understand that progress in medicine requires both mechanistic insight and system-level solutions.”

Munsoor reflected on her experiences in the program and said they’ve helped her reaffirm her passion for studying vision.

“This program has helped me see what a career in this field can be like by embedding me within the research process, where I’ve had opportunities to directly contribute to major research projects aimed at better understanding blinding diseases. I feel very privileged to have spent my summer at WVU and to have worked alongside the great team of faculty researchers on campus,” she said.

The Summer Undergraduate Vision Research Fellowship Program is supported by the WVU Center of Biomedical Research Excellence (CoBRE), an initiative aimed at developing innovative methods to prevent, treat and slow the progression of blinding diseases. CoBRE is funded through a grant from the National Institutes of Health.

“These projects provide complementary perspectives on the same overarching goal — preventing vision loss in patients with glaucoma. It helps young aspiring researchers understand that progress in medicine requires both mechanistic insight and system-level solutions.”

JOEL PALKO, M.D.

professor and glaucoma specialist

WVU vision researchers explore mislocalization in retinal synapses

Vision researchers at the West Virginia University School of Medicine are exploring a cellular process known as protein mislocalization to better understand how inherited genetic mutations that impact retinal synapses can result in blinding diseases like retinitis pigmentosa.

Samantha Thompson, a fifth-year doctoral student in the WVU School of Medicine's Biochemistry and Molecular Medicine Graduate Program, has spent the last three years piloting this project alongside Assistant Professor Michael Robichaux, Ph.D.

"Mislocalization is a process that occurs when a protein, such as the light-sensitive retinal protein known as rhodopsin, deviates from its intended location within a cell or organism," Thompson said. "Our project examined what happens when rhodopsin mislocalizes within the retinal synapses, which play a key role in the transmission of visual information in the eyes."

Thompson explained that retinitis pigmentosa, a rare inherited eye disease that causes progressive vision loss, can be caused by different protein mutations. Through this project, the research team found that depending on the mutation, the protein can mislocalize differently.

"We found that when rhodopsin mislocalizes within the cell instead of the membrane, it can impact the abundance of synaptic proteins in the retina," Thompson explained. "This was a

significant discovery for us, as mislocalization within the retinal synapses remains a relatively underexplored area of visual science. These findings can be used in future research to further study the retinal synapses and determine therapeutic treatment windows for devastating blinding diseases like retinitis pigmentosa."

Thompson had the opportunity to conduct a large number of the laboratory experiments for this project herself, which included examining the mislocalization process by utilizing super resolution imaging and

electron microscopy. She said this was perhaps her favorite part of the research process, as it helped her better understand the retina at a microscopic level.

"The microscopes allow us to observe mislocalization at the nanoscale and see those changes in real time, which was a process I found endlessly fascinating," she said. "Hands-on laboratory experience like this has been invaluable throughout my time as a Ph.D. student, as it's helped me re-affirm my passion for vision research in an academic setting while also giving me a taste of what a career in the field could be like."

Thompson helped formulate and plan the laboratory experiments alongside Dr. Robichaux in addition to performing protocol writing. Additional members of the research team included WVU medical student Sophie Crowder, postdoctoral researcher Maryam Hekmatara, Ph.D., and Assistant Professor Wen-Tao Deng, Ph.D.

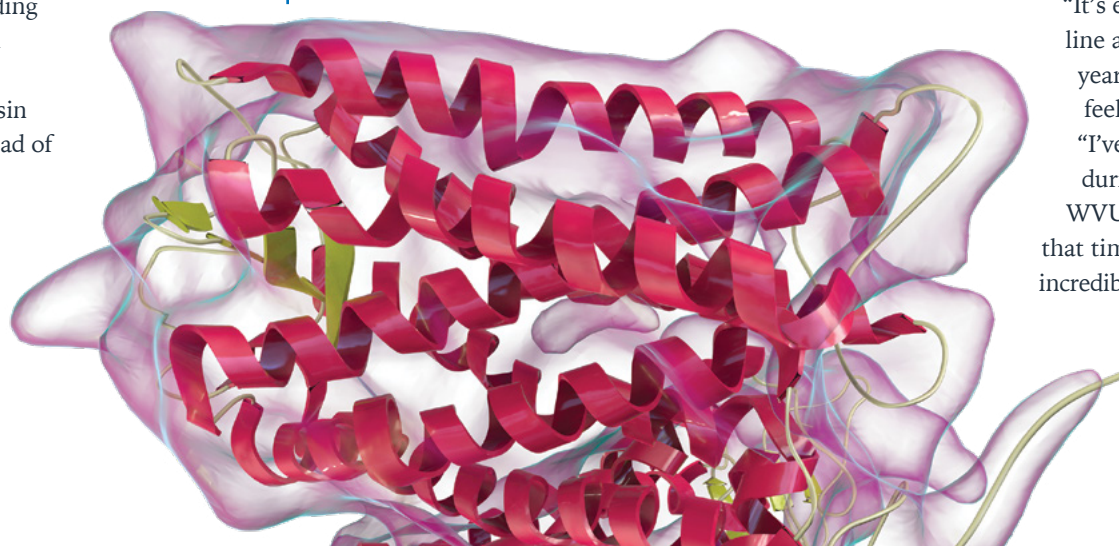
After three years of hard work, the team's research finally came to a close as their findings were accepted for publication in the June 2025 issue of the academic journal *Disease Models & Mechanisms*.

"It's exciting to finally reach the finish line and achieve publication after years of hard work, but it can also feel bittersweet," Thompson said. "I've been involved with this project during a majority of my time here at WVU, so I know I will miss spending that time in the lab working with this incredible team. I feel very grateful to have been a part of this project."

"This was a significant discovery for us, as mislocalization within the retinal synapses remains a relatively underexplored area of visual science."

SAMANTHA THOMPSON

biochemistry and molecular medicine doctoral student



 **WVU**EyeInstitute

2027 Pearls Conference

SAVE THE DATE! Saturday, April 24, 2027

Pangilinan Family Lecture Hall at the WVU Eye Institute



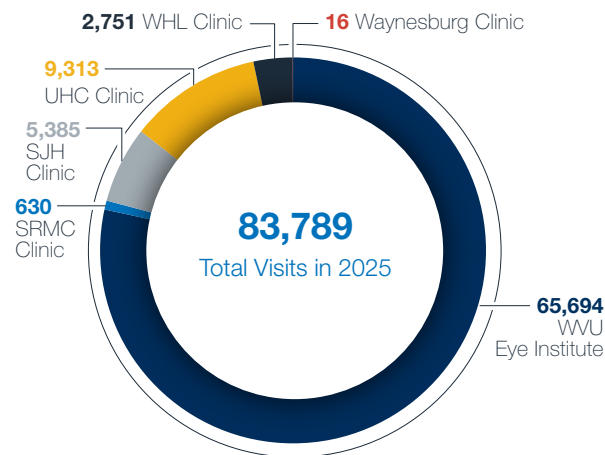
Department of Ophthalmology and Visual Sciences **At-A-Glance**

	2021		2022		2023		2024		2025	
	Patients	Surgeries	Patients	Surgeries	Patients	Surgeries	Patients	Surgeries	Patients	Surgeries
TOTALS	59,018	4,387	64,336	4,428	71,959	4,946	77,636	5,640	83,789	6,450
WVU Eye Institute	52,338	3,741	55,717	3,826	60,523	4,096	62,743	4,446	65,694	4,605
Gilbert Clinic	36	-	33	-	21	-	N/A*	-	N/A*	-
SRMC Clinic	437	229	610	364	766	306	972	349	630	294
SJH Clinic	3,925	327	4,405	99	5,036	389	4,979	140	5,385	366
UHC Clinic	2,282	90	2,986	139	3,818	113	6,438	561	9,313	1,038
WHL Clinic	-	-	-	-	1,265	42	2,228	144	2,751	147
Waynesburg Clinic	-	-	585	-	530	-	276	-	16	-

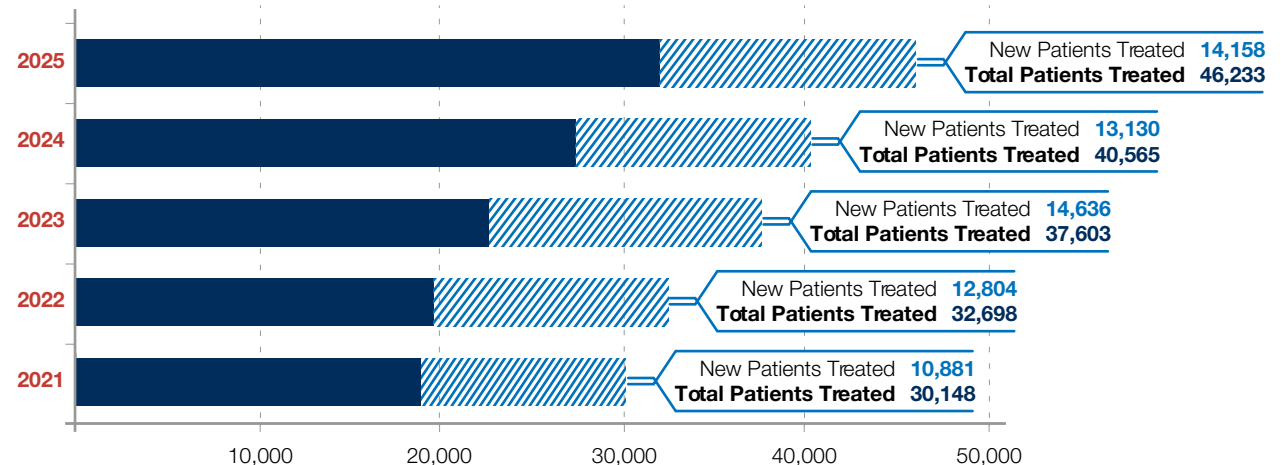
Patient count represents number of distinct patients.

*Ophthalmology services no longer available at Gilbert Clinic as of 2024

2025 Patient Visit Totals



Patients Treated



**Join Mountaineers past and present
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and alumni will meet on-site at the American
Academy of Ophthalmology's annual meeting.**

***Reconnect with friends and mentors
while attending the conference.***

LOCATION:

**Five O Fore Golf + Entertainment
3800 Howard Avenue, New Orleans, LA 70125**



**AAO 2026
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WVU Department of Ophthalmology and Visual Sciences Publications (Jan. 1 - Dec. 31, 2025)

- Al-Kharsan H, Busquets M, **Ghorayeb G**, Gong D, Kolomeyer A, Leung EH, Niles P, Patel NA, Shah AR, Wykoff CC, Blim J, Jumper M, Lai MM. [Supply Chain Volatility of Repackaged Intravitreal Bevacizumab: A Survey of the American Society of Retina Specialists](#). J Vitreoretin Dis. 2025 Jul 8;24741264251352889. doi: 10.1177/24741264251352889. Epub ahead of print. PMID: 40656515; PMCID: PMC12240990.
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Assistant Professor Joel Palko, M.D., observes a sample prepared by a student in the lab.

Funding January 1 - December 31, 2025

Basic Science Grants

Wen Tao Deng, Ph.D., Assistant Professor, Add'l Appt.: Assistant Professor, Dept. of Biochemistry and Molecular Medicine
[Disease mechanisms of cone opsin mutants and treatment strategies](#)
 US DHHS-NIH-National Eye Institute
 Duration: 8/1/2021 - 7/31/2025
 Total Award Amount: \$1,472,492

[Intravitreal AAV Gene Therapy for Blue Cone Monochromacy: test of capsids and cone promoters on animal models and proof of concept study](#)
 BCM Families Foundation
 Duration: 1/1/2023 - 11/02/2026
 Total Award Amount: \$130,888

Jianhai Du, Ph.D., Associate Professor, Add'l Appt.: Associate Professor, Department of Biochemistry and Molecular Medicine
[Proline metabolism in retinal health](#)
 US DHHS-NIH-National Eye Institute
 Duration: 6/1/2021 - 3/31/2027
 Total Award Amount: \$1,888,600

[Mitochondrial Pyruvate Transport in Retinal Health and Disease](#)
 US DHHS-NIH-National Eye Institute
 Duration: 1/1/2021 - 11/30/2025
 Total Award Amount: \$1,600,105

[Regulators of retinal metabolism in healthy and degenerating retinas](#)
 US DHHS-NIH-National Eye Institute – Subaward Univ. of Pittsburgh
 Duration: 7/1/2023 - 6/30/2025
 Total Award Amount: \$81,780

[Mitochondrial Defects in the Retinal Pigment Epithelium and the CFH Risk Allele for Age-related Macular Degeneration](#)
 US DHHS-NIH-National Eye Institute – Subaward Doheny Eye Institute
 Duration: 9/30/2022 – 8/31/2026
 Total Award Amount: \$167,606

[Metabolic dysfunction from ECM remodeling in diseases of human RPE](#)
 US DHHS-NIH-National Eye Institute - Univ. of Washington
 Duration: 9/01/2022 – 6/30/2027
 Total Award Amount: \$738,210

[Deciphering the Mechanisms Associated with High-risk AMD genotypes for ARMS2/HTRA1 and Complement Factor H](#)
 US DHHS-NIH-National Eye Institute – Subaward Doheny Eye Institute
 Duration: 9/30/2022 – 8/31/2025
 Total Award Amount: \$148,038

[Target NAD degradation in age-related macular degeneration](#)
 International Retinal Research Foundation
 Duration: 1/10/2025 - 12/31/2025
 Total Award Amount: \$43,000

[Metabolism of AMD iPSC-derived](#)
 US DHHS-NIH-National Eye Institute - Univ. of Washington
 Duration: 9/30/2022 – 8/31/2025
 Total Award Amount: \$460,642

[Pathogenesis and motor neuron degeneration of a novel disease associated with a P158A mutation in NAMPT](#)
 US DHHS-NIH-National Eye Institute - Subaward University of Missouri
 Duration: 4/1/2022 – 12/31/2026
 Total Award Amount: \$96,630

Saravanan Kolandaivelu, Ph.D., Associate Professor, Add'l Appt.: Associate Professor, Department of Biochemistry and Molecular Medicine
[Mechanisms Behind Retinal Photoreceptor Cells Outer Segment Biogenesis](#)
 US DHHS-NIH-National Eye Institute
 Duration: 5/1/2018 - 4/30/2025
 Total Award Amount: \$1,852,500

Thomas Mauger, M.D., Professor, Chairman
[RPB Challenge Grant - West Virginia University](#)
 Research to Prevent Blindness
 Duration: 7/1/2024 - 6/30/2028
 Total Award Amount: \$360,000

Joel Palko, M.D., Ph.D., Assistant Professor
[Visual Sciences Center of Biomedical Research Excellence](#)
 US DHHS-NIH-National Institute of General Medical Sciences
 Duration: 3/20/2022 – 1/31/2025
 Total Award Amount: \$1,003,912

[Impact of low blood pressure on ONH biomechanics in glaucoma](#)
 Glaucoma Research Foundation
 Duration: 3/01/2025 – 2/28/2026
 Total Award Amount: \$55,000

Michael Robichaux, Ph.D., Assistant Professor, Add'l Appt.: Assistant Professor, Department of Biochemistry and Molecular Medicine
[Visual Sciences Center of Biomedical Research Excellence](#)
 US DHHS-NIH-National Institute of General Medical Sciences
 Duration: 3/20/2022 – 1/31/2026
 Total Award Amount: \$741,801

Ezequiel Salido, Ph.D., Assistant Professor, Add'l Appt.: Assistant Professor, Department of Biochemistry and Molecular Medicine
[Role of Interphotoreceptor Matrix Proteoglycans in Retinal Homeostasis and Retinitis Pigmentosa](#)

US DHHS-NIH-National Institute of General Medical Sciences
Duration: 9/01/2024 - 6/30/2026
Total Award Amount: \$760,000

Visvanathan Ramamurthy, Ph.D., *Professor, Vice Chair of Research; Additional Appointments: Chairman, Professor, Department of Biochemistry and Molecular Medicine*
[Visual Sciences Center of Biomedical Research Excellence](#)
US DHHS-NIH-National Institute of General Medical Sciences
Duration: 320/2022 - 1/31/2026
Total Award Amount: \$9,644,634

[Biosynthesis and Trafficking of Phosphodiesterase in the Retinal Photoreceptors](#)
US DHHS-NIH-National Eye Institute
Duration: 4/1/2020 - 3/31/2026
Total Award Amount: \$1,921,805

[Importance of Small GTPases in Photoreceptor Function](#)
US DHHS-NIH-National Eye Institute
Duration: 4/1/2023 - 3/31/2026
Total Award Amount: \$1,921,805

[Therapies for defective photoreceptor outer segment development in blinding diseases](#)
US DHHS-NIH-National Eye Institute
Duration: 9/15/2025 - 8/31/2028
Total Award Amount: \$1,369,974

Clinical Research Funding

Ghassan Ghorayeb, M.D., *Associate Professor, Vitreoretinal Fellowship Program Director, Vice Chair of Clinical Affairs, Vitreoretinal Division Director*
[A Randomized, Double-Masked, Active-Controlled Phase 2/3 Study of the Efficacy and Safety of High-Dose Aflibercept in Patients with Diabetic Macular Edema](#)
Regeneron Pharmaceuticals, Inc.
Duration: 12/8/2022 – 6/9/2025
Total Award Amount: \$81,117

[A Phase 3, Multicenter, Double-masked, Randomized Study to Evaluate the Efficacy and Safety of Intravitreal OPT-302 in Combination with Aflibercept, Compared with Aflibercept Alone in Participants with Neovascular Age-related Macular Degeneration \(nAMD\)](#)
Opthea
Duration: 5/24/2021 – 12/31/2025
Total Award Amount: \$7,000

[An Extension Study to Evaluate the Long-Term Outcomes of Patients who Received Treatment for Retinopathy of Prematurity in the VGFTE-ROP-1920 Study](#)
Regeneron Pharmaceuticals, Inc.
Duration: 8/31/2022 – 11/04/2026
Total Award Amount: \$22,129

[A Multi-Center, Randomized, Double-Masked Phase 2 Study to Assess Safety and Efficacy of ADV-022 \(AAV.7m8-aflibercept\) in Anti-VEGF Treatment Experienced Patients with Neovascular \(Wet\) Age-related Macular Degeneration \(nAMD\) \[LUNA\]](#)
PAREXEL INTERNATIONAL CORPORATION
Duration: 9/27/2022 – 9/26/2029
Total Award Amount: \$7,350

[A Two Stage Phase 2 Study: Stage 1: Single Subcutaneous Dose Open-label Assessment of Safety and Pharmacodynamic Response to D-4517.2](#)
PHARMACEUTICAL RESEARCH ASSOC
Duration: 10/6/2022 – 10/6/2029
Total Award Amount: \$5,707

[A Phase III, Multicenter, Randomized, Double-Masked, Active Comparator Controlled Study to Evaluate the Efficacy and Safety of Farcimimab in Patients with Macular Edema Secondary to Central Retinal or Hemiretinal Vein Occlusion](#)
GENENTECH, INC
Duration: 10/27/2020 – 12/31/2025
Total Award Amount: \$33,652

[A Multi-Center, Randomized, Double-Masked, Active-Comparator-Controlled, Phase 3 Study to Evaluate the Efficacy and Safety of Ixoberogene soroparvovec \(Ixo-vec\) in Participants with Neovascular Age-Related Macular Degeneration \(ARTEMIS\)](#)
ADVERUM BIOTECHNOLOGIES, INC
Duration: 7/6/2025 – 7/6/2030
Total Award Amount: \$5,000

[A Multicenter, Randomized, Double-Masked, Placebo-Controlled Phase 3 Study of the Efficacy, Safety, and Tolerability of Subcutaneously Administered Pozelimab in Combination with Cemdisiran or Cemdisiran Alone in Patients with Geographic Atrophy Secondary to Age-Related Macular Degeneration](#)
PAREXEL INTERNATIONAL CORPORATION
Duration: 7/1/2025 – 6/30/2030
Total Award Amount: \$7,793

[Effect of Endoscopic Sleeve Gastropasty \(ESG\) on Patients with Obesity and Concomitant Metabolic Dysfunction-Associated Steatohepatitis \(MASH\): A Multicenter, Open-label, Randomized Controlled Trial](#)
BRIGHAM AND WOMEN'S HOSPITAL, INC.
Duration: 12/16/2025 – 12/16/2033
Total Award Amount: \$6,750

Kevin Halenda, M.D., *Assistant Professor*
[Mentoring for the Advancement of Physician Scientists \(MAPS\)](#)
American Glaucoma Society
Duration: 12/01/2023 - 9/1/2026
Total Award Amount: \$10,000

Lingo Lai, M.D., *Assistant Professor, Cornea Fellowship Program Director, Associate Residency Program Director*
[A Phase 2 Open Label Trial of ST266 Eye Drops in the Treatment of Persistent Corneal Epithelial Defects \(PED\)](#)
Noveome Biotherapeutics, Inc.
Duration: 2/5/2020 - 4/21/2030
Total Award Amount: \$10,905

ST266-PED-202: A PHASE 2B, MULTI-CENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY WITH OPEN-LABEL EXTENSION TO EVALUATE THE SAFETY AND EFFICACY OF ST266 EYE DROPS IN THE TREATMENT OF PERSISTENT CORNEAL EPITHELIAL DEFECTS
Noveome Biotherapeutics, Inc.
Duration: 1/27/2022 – 1/31/2027
Total Award Amount: \$31,500

A STUDY TO EVALUATE THE SAFETY AND EFFICACY OF KPI-012 OPHTHALMIC SOLUTION IN PARTICIPANTS WITH PERSISTENT CORNEAL EPITHELIAL DEFECT (PCED)
LEXITAS PHARMA SERVICES
Duration: 11/28/2023 – 12/31/2025
Total Award Amount: \$3,500

Brian McMillan, M.D., *Associate Professor, Glaucoma Fellowship Program Director, Anterior Segment Director*
Field Test of Glaucoma Outcomes Survey
The Emmes Corporation
Duration: 2/4/2021 - 1/30/2031
Total Award Amount: \$1,450

John Nguyen, M.D., *Professor, Ophthalmic Plastic and Reconstructive Surgery Fellowship Director*
A Phase 2b, Randomized, Double-Mask, Placebo-Controlled, Study to Evaluate the Safety, Pharmacokinetics and Efficacy of Linsitinib in Subjects with Active, Moderate to Severe Thyroid Eye Disease (TED)
SYNEOS HEALTH, LLC
Duration: 1/24/2022 – 8/31/2025
Total Award Amount: \$76,172

A Multicenter, Extension Study to Evaluate the Efficacy, Safety, Pharmacokinetics, and Pharmacodynamics of Two Doses of Linsitinib in Subjects with Active, Moderate to Severe Thyroid Eye Disease (TED)
SYNEOS HEALTH, LLC
Duration: 4/17/2023 – 1/31/2026
Total Award Amount: \$18,004

A Phase 4, Randomized, Double-masked, Placebo-controlled, Multicenter Trial to Evaluate the Efficacy and Safety of TEPEZZA (R) in Treating Patients with Chronic (Inactive) Thyroid Eye Disease
Horizon Therapeutics U.S.A., Inc
Duration: 6/20/2022 – 6/30/2026
Total Award Amount: \$2,000

A Multicenter Phase 2b Randomized, Double-Masked, Placebo-Controlled Dose-Ranging Study of TOUR006 in Participants with Thyroid Eye Disease
SYNEOS HEALTH, LLC
Duration: 2/16/2024 – 2/2/2027
Total Award Amount: \$26,156

An Open-label Extension Study for Participants who Completed Study IMVT-1401-3201 or Study IMVT-1401-3202 to Assess the Efficacy and Safety of Batoclimab for the Treatment of Thyroid Eye Disease (TED)
SYNEOS HEALTH, LLC
Duration: 4/5/2024 – 2/27/2033
Total Award Amount: \$91,223

A Phase 3, Randomized, Double-masked, Placebo-controlled, Parallel-group, Multicenter Trial to Evaluate the Efficacy, Safety and Tolerability of Subcutaneous Teprotumumab in Participants with Moderate-to-Severe Active Thyroid Eye Disease
Horizon Therapeutics U.S.A., Inc
Duration: 4/29/2024 – 04/29/2031
Total Award Amount: \$102,568

IMVT-1401-3202: A Phase 3, Multi-center, Randomized, Quadruple-masked, Placebo-controlled Study of Batoclimab for the Treatment of Participants with Active Thyroid Eye Disease (TED)
SYNEOS HEALTH, LLC
Duration: 03/22/2023 – 03/22/2033
Total Award Amount: \$50,431

A Randomized, Controlled, Safety and Tolerability Study of VRDN-001, a Humanized Monoclonal Antibody Directed Against the IGF-1 Receptor, in Participants with Thyroid Eye Disease (TED)
PAREXEL INTERNATIONAL CORPORATION
Duration: 9/5/2024 – 1/31/2026
Total Award Amount: \$9,198

A PHASE III, RANDOMIZED, DOUBLE-MASKED, PLACEBO-CONTROLLED, MULTICENTER STUDY TO EVALUATE THE EFFICACY, SAFETY, PHARMACOKINETICS, AND PHARMACODYNAMICS OF SATRALIZUMAB IN PARTICIPANTS WITH MODERATE-TO-SEVERE THYROID EYE DISEASE
GENENTECH, INC
Duration: 4/23/2024 – 4/22/2034
Total Award Amount: \$34,090

A phase 3, randomized, double-masked, placebo-controlled, efficacy, safety, and tolerability study of VRDN-003 in participants with active thyroid eye disease (TED)
VIRIDIAN THERAPEUTICS, INC.
Duration: 1/31/2025 – 1/31/2032
Total Award Amount: \$15,925

A phase 3, randomized, double masked, placebo-controlled, efficacy, safety, and tolerability study of VRDN-003 in participants with chronic thyroid eye disease (TED)
PAREXEL INTERNATIONAL CORPORATION
Duration: 1/31/2025 – 7/09/2030
Total Award Amount: \$28,386

A Phase 3, Randomized, Double-Masked, Placebo-Controlled, Multicenter Study to Evaluate the Efficacy, Safety, Tolerability, Pharmacokinetics, Pharmacodynamics, and Immunogenicity of Efgartigimod PH20 SC
ICON CLINICAL RESEARCH
Duration: 5/16/2025 – 5/14/2035
Total Award Amount: \$30,175

A Phase 1/2, Randomized, Double-Masked, Placebo-Controlled, Multicenter Study to Assess the Safety, AMGEN INC

Duration: 7/29/2025 – 7/29/2033

Total Award Amount: \$32,483

Expansion of the Ocular Disease and Injury Iris Dataset

US DEPT OF JUST, BUR OF INVEST

Duration: 09/01/2023 – 2/28/2026

Total Award Amount: \$226,095

Iris Recognition/Registration in Setting Before/After Pharmacological, Disease Related, and Traumatic Dilation

US DEPT OF JUST, BUR OF INVEST

Duration: 03/01/2024 – 6/30/2026

Total Award Amount: \$256,173

Tony Realini, M.D., M.P.H., Professor, Vice Chair for Clinical Research

Clarifying the Optimal Application of SLT Therapy (COAST) Trial

US DHHS-NIH-National Eye Institute

Duration: 9/30/2020 - 8/31/2026

Total Award Amount: \$3,061,147

Clarifying the Optimal Application of SLT Therapy (COAST) Trial – Univ. of Pittsburgh

US DHHS-NIH-National Eye Institute

Duration: 8/1/2024 - 8/31/2026

Total Award Amount: \$168,877

Bradley Thuro, M.D., Assistant Professor

A Phase 1b, Randomized, Double-Masked, Placebo-Controlled, Multiple Ascending Dose Study Evaluating the Safety, Tolerability, Pharmacokinetics, and Clinical Efficacy of VB421 in Subjects With Thyroid Eye Disease (TED)

ACELYRIN, INC.

Duration: 1/30/2023 - 1/22/2025

Total Award Amount: \$13,125

Service Grant Funding — State & Foundation Awards

Rebecca Coakley, MA, CLVT, Director of Outreach,
West Virginia University Eye Institute

West Virginia Department of Rehabilitation Services for O&M, Technology, and Adventure Camps

Duration: 2025

Total Award Amount: \$95,000

Children's Vision Rehabilitation Program

WV DEPARTMENT OF EDUCATION

Duration: 7/1/2024 - 9/30/2025

Total Award Amount: \$98,190

Children's Vision Rehabilitation (CVRP) low vision tech assessments, including devices

WV DEPARTMENT OF EDUCATION

Duration: 6/1/2025 - 6/30/2026

Total Award Amount: \$7,200

Children's Vision and Rehabilitation Program (CVRP) for 14 CVI assessments for children who meet the Part C definition of deafblindness

WV DEPARTMENT OF EDUCATION

Duration: 6/1/2025 - 6/30/2026

Total Award Amount: \$10,500

Individuals with Disabilities Education Act

WV DEPARTMENT OF EDUCATION

Duration: 7/1/2025 - 9/30/2026

Total Award Amount: \$107,000

Greater Kanawha Valley Foundation

Duration: 2025 | Total Award Amount: \$98,800

Benedum Foundation

Duration: 2025 | Total Award Amount: \$120,000



Teubert Foundation

Duration: 2025 | Total Award Amount: \$87,922

Pallottine Foundation

Duration: 2025 | Total Award Amount: \$31,000

Alcon Foundation

Duration: 2025 | Total Award Amount: \$95,000

American Electric Power Foundation

Duration: 2025 | Total Award Amount: \$20,000

Martha Parlin Trust

Duration: 2025 | Total Award Amount: \$19,960

Parkersburg Area Foundation

Duration: 2025 | Total Award Amount: \$5,250

AEP

Duration: 2025 | Total Award Amount: \$20,000

Mansbach Foundation

Duration: 2025 | Total Award Amount: \$2,237.70

Lions Sight Foundation

Duration: 2025 | Total Award Amount: \$1,500

Milan Puskar Foundation

Duration: 2025 | Total Award Amount: \$50,000

West Virginia Schools for the Deaf and the Blind

Duration: 2025 | Total Award Amount: \$22,000

Thank you!

This past year represented another exciting year of growth for the West Virginia University Eye Institute, as construction of the new, more than 150,000-square-foot eyecare facility continues to progress toward its completion in fall 2027. This crucial expansion would not be possible without the generosity of our benefactors, who have graciously contributed more than half a million dollars in funding to the Eye Institute and Department of Ophthalmology and Visual Sciences over the past year.

In 2025, we received a total of \$668,797 in funds from alumni, friends, grateful patients, corporations and foundations in support of our mission to address visual disparity across West Virginia and the surrounding region. This includes approximately \$129,000 in funding from individual private gifts, \$67,000 from alumni, \$197,000 from corporate partners and \$342,000 from local and national foundations.

When you make a contribution to the WVU Eye Institute and Department of Ophthalmology and Visual Sciences, you are giving the invaluable gift of vision. A donation, no matter the size, can make a significant difference in the success of our institution by providing funding for additional support to our established programs, financing necessary pieces of ophthalmic equipment, supplementing research projects and providing additional support to our residents and fellows.

The philanthropic support of our generous donors allows us to continue in our mission of providing transformative vision care to our growing patient population across West Virginia and the greater Appalachian region. We wish to take this opportunity to thank each and every one of our donors for their critical support over this past year. We would not be able to accomplish what we do without each and every one of you.

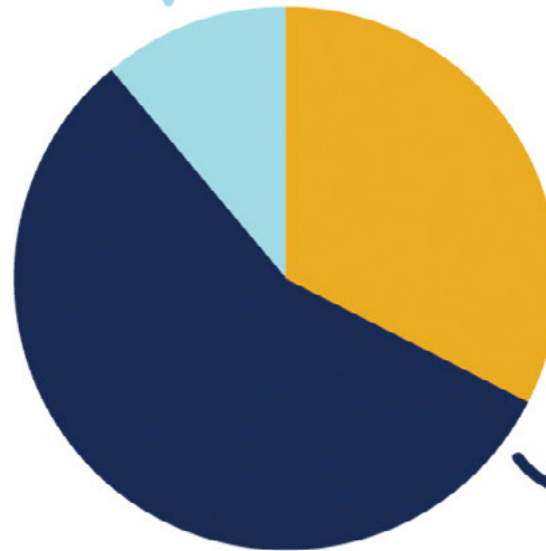


To learn how you can become involved and make a gift to the Eye Institute and Department of Ophthalmology and Visual Sciences, scan the QR Code.

\$668,797

Total Philanthropic Support from Jan. 1, 2025-Dec. 31, 2025


102
GIFTS FROM
INDIVIDUALS
TOTALING OVER
\$129K
INCLUDING
32
ALUMNI GIFTS
TOTALING OVER
\$67K



5
CORPORATE
GIFTS TOTALING
OVER
\$197K



6
FOUNDATION
GIFTS TOTALING
OVER
\$342K



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