UVA SCHOOL OF MEDICINE 2024 ANNUAL REPORT



(ownwwith

Clinical



Education



OUR MISSION

Transforming health and inspiring hope for all Virginians and beyond.

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IMAGE CREDITS

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FROM THE DEAN

It is an incredible honor to serve this talented and dedicated community of clinicians, researchers, trainees, staff, and learners as we continue to work together toward our mission to transform health and inspire hope for all Virginians and beyond. Even after three years as dean of the UVA School of Medicine, I am still inspired every day by our team's commitment to providing outstanding patient care and achieving scientific breakthroughs that make new life-saving treatments possible. At the School of Medicine, we prioritize four pillars as the foundation of all we do: patient care, education, research, and community engagement. I am pleased to share our UVA School of Medicine 2024 Annual Report in celebration of our accomplishments in these areas in the 2023–24 academic year.

Our *clinical care* continues to receive national recognition. This year, *Newsweek* ranked the University Medical Center as the No. 1 hospital in Virginia and among the world's top 250. And WebMD and Medscape named UVA Health as a "best in class" health system in Virginia.

Our *education* mission is unmatched. Our medical school attracts some of the best and brightest medical students, graduate students, and master's students from across the country. Our graduate medical education also received stellar recognition from the Accreditation Council for Graduate Medical Education (ACGME) by being re-accredited with zero citations and zero areas for improvement. This is truly remarkable for our more than 800 residents and fellows in the 84 ACGME-accredited specialties, along with the faculty and staff who all work together to provide a climate for learning that has remained a vital and unique part of the program.

When it comes to *community*, we are committed to nurturing the growth of our internal team members as we reach out to serve our surrounding community with excellence and compassion. We launched the UVA Health Leadership Institute this year that's aimed at helping to make UVA Health the best place to work by providing extensive leadership development.

Our *talented* researchers have expanded our research portfolio through their commitment to breakthrough discoveries that lead to innovative care. The Blue Ridge Institute for Medical Research, a nonprofit that tracks research funding from the National Institutes of Health to medical schools, reported that the UVA School of Medicine now ranks No. 19 among all public Schools of Medicine. Increased research funding translates into an increased ability to care for patients in innovative ways. The opening of our full-service Clinical Trials Unit will help support those researchers as they execute high-quality, human subject research.

Which brings me to the Paul and Diane Manning Institute of Biotechnology, for which we broke ground in December! There, we'll be collaborating to produce innovative products for the most complex of human conditions—combining research, innovative therapeutics, and clinical care in one exciting location.

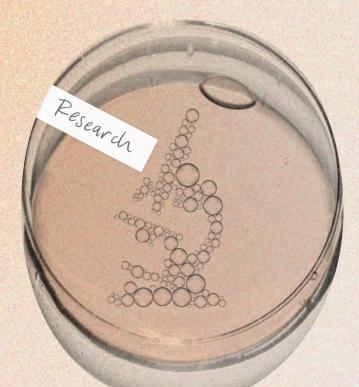
Of course, here at our School we will always recognize the big things: new technological advances and breakthrough medications. But as I tell our graduates every year, we never want to forget the human side of our care, both within our hospital walls and across our greater community. As you read this Annual Report, I hope you'll join me in celebrating our team's accomplishments as we've worked to build *One Future Together*.

Sincerely,

Melina Kibbe, MD Dean, UVA School of Medicine James Carroll Flippin Professor of Medical Science Chief Health Affairs Officer, UVA Health

Research

With over \$274 million in total research dollars and \$163 million in NIH research awards, the UVA School of Medicine is an internationally recognized, innovative, and collaborative leader in research that advances science, pioneers the treatments of tomorrow, and improves the health of all people on a global scale.



RESEARCH BY THE NUMBERS

2220 NIH-FUNDED INVESTIGATORS

3 NOBEL PRIZE AWARDS \$163M

23 MEMBERS OF THE NATIONAL ACADEMY 553 ACTIVE CLINICAL TRIALS

\$274M TOTAL RESEARCH DOLLARS



2,438 CLINICAL TRIAL SUBJECTS ENROLLED "The future of innovative medical care begins in the labs of the UVA School of Medicine."

Jeffrey R. Martens, PhD Senior Associate Dean for Research

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Transforming Healthcare: Paul and Diane Manning Institute of Biotechnology

UVA broke ground in December 2023—right on schedule—for the Paul and Diane Manning Institute of Biotechnology. This cutting-edge institute will fast-track the development of new treatments and cures, all to help transform how healthcare is delivered across Virginia and beyond.

The new institute is made possible, in large part, by a generous \$100 million donation from philanthropists Paul and Diane Manning. UVA and the Common-wealth of Virginia also made major investments.

"Research, manufacturing, and treatment—we're bringing it all together under one roof," said Paul Manning, chairman and CEO of PBM Capital, a healthcarefocused investment firm.

The institute will target research areas such as cellular therapy, gene therapy, nanotechnology, and drug delivery, making it possible for UVA to expand its offerings of clinical trials—the testing ground for new treatments.

The institute, planned for a late 2026 opening, is also expected to attract a spectrum of bioscience companies to the state.

Two research centers that will be housed in the institute have already appointed leaders (pictured at right) to steer exciting research. Both showcase how the synergy of the Manning Institute of Biotechnology will propel UVA to the forefront in medical research.



John Lukens, PhD—director of the Harrison Family Translational Research Center in Alzheimer's and Neurogenerative Diseases. Lukens has conducted groundbreaking research charting the role of the immune system in brain injury and neurodegenerative disorders.



Evan A. Scott, PhD—director of the Institute for Nanoscale Scientific and Technological Advanced Research, or nanoSTAR. Scott researches the use of tiny nanostructures to battle heart disease, cancer, glaucoma, and more. "Nanotechnology is a longstanding strength for UVA and will be a foundational pillar of the Paul and Diane Manning Institute of Biotechnology," said Melina R. Kibbe, MD, dean of the School of Medicine.

Research



"Clinical research allows us to offer novel therapies and treatment options to our patients."

Linda Duska, MD, MPH, Associate Dean for Clinical Research

Opening of Full-Service Clinical Trials Unit Expands Research Support

On May 20, National Clinical Trials Day, the School of Medicine launched its recently expanded, full-service Clinical Trials Unit—to better support researchers as they develop and execute high-quality, human subject research. The CTU includes trained research coordinators (some pictured above) who are available for "hire" on a part-time basis to assist in clinical studies. It also provides centralized infrastructure to continue translating discoveries into revolutionary therapies.

UVA's research and clinical trial work has already led to novel treatments such as focused ultrasound for essential tremor and the artificial pancreas for diabetes.

Other significant research underway includes these clinical trials:



Promising nonhormonal drug treatment for menopause. JoAnn Pinkerton, MD, led an international, randomized clinical trial of elinzanetant that showed a significant reduction in menopause symptoms and was published in *JAMA*. The drug manufacturer has submitted a new drug application to the U.S. FDA based on study results.



Pioneering research to combat cocaine addiction. Principal investigator **Nassima Ait-Daoud Tiouririne, MD**, directs UVA's Center for Leading Edge Addiction Research, which is working to reprogram brain cells to reduce desire for cocaine. The trial is supported by \$5 million from the National Institutes of Health's National Institute on Drug Abuse. Currently, no FDA-approved medications exist to help people quit.



RESEARCH RETREAT INSPIRES INNOVATIVE NEW PROJECTS

A February retreat for nearly 300 School of Medicine research faculty explored "Emerging Approaches and Biotechnologies" and included a lively Shark Tank-like competition. Vying for a \$500,000 prize, five teams pitched their ideas targeting large and complex (P&U-level) grants, and the audience voted to determine the winner. Tied for first place: team projects on "Postpartum Depression Research & Training Center" and "Immune Mechanisms of IgE Sensitization to Alpha-Gal."

Significant Grants Bolster Research to Improve Patient Health



James C. Zimring, MD, PhD—\$11.3 million from the National Heart, Lung, and Blood Institute to study alloimmunization of transfused red blood cells. Upon transfusion, some patients mount antibody responses against alloantigens, rendering them unable to receive transfusions from certain donors—especially problematic for those requiring repeated transfusions. Zimring will lead a multidisciplinary team across numerous institutions to help predict and prevent RBC alloimmunization.



Suna Onengut-Gumuscu, PhD—\$4.4 million from NIH to study how genes affect the risk of Type 1 diabetes in children. Onengut-Gumuscu's work hopes to identify biomarkers that predict the stages of the disease, which will aid in development of risk prediction models.



William A. Petri, MD, PhD—seven-year \$4.2 million NIH grant renewal to support the NICHD Global Maternal-Child Health Network. The grant funds UVA's partnership with the International Centre for Diarrhoeal Disease Research in Bangladesh to continue improving maternal-child health.



Ling Qi, PhD—\$4.2 million total from NIH in two grants to research cell protein mechanisms that impact metabolic and liver disorders. Qi's lab seeks to uncover potential therapeutic interventions to address metabolic disorders and reveal the mechanisms that influence bile acid metabolism.

#19 \$774 \$150m \$150m \$125m \$125m \$100m

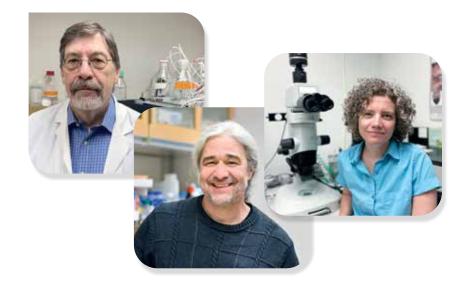
SCHOOL OF MEDICINE RISES IN BLUE RIDGE RESEARCH RANKINGS

The School of Medicine's NIH funding increased from \$155.1 million in 2022 to \$174.2 million in 2023, according to the Blue Ridge Institute for Medical Research, facilitating UVA's rise from 21st to 19th in NIH support among all public schools of medicine.

*Blue Ridge rankings are for the Federal fiscal year

50 YEARS OF FUNDING UNDERSCORES TRAINEE SUCCESS

For nearly five decades, since 1975, the NIH has funded the School of Medicine's training program in pharmacology with a Pharmacological Sciences Training Grant. The current leadership team of principal investigators consists of Kevin Lynch, PhD, Thurl Harris, PhD, and Michelle Bland, PhD (photos from left to right). Since its inception, the grant has supported nearly 200 trainees who have been awarded PhDs in fields ranging from pharmacology and physiology, to microbiology and chemistry.



Education

The UVA School of Medicine is

training the next generation of health
science professionals and advancing
knowledge in the medical sciences
through world-class educational
programs supported by outstanding
and passionate educators.

EDUCATION BY THE NUMBERS

631 Residents 216 FELLOWS

L3 ACGME PROGRAMS NATIONALLY RANKED IN TOP QUARTILE BY DOXIMITY

RESIDENCY

MATCH RATE

637

"The UVA School of Medicine continues to reshape medical education as it prepares exemplary medical professionals."

Meg G. Keeley, MD Senior Associate Dean for Education

Education

MEDICAL STUDENTS

9400 PERCENTILE MCAT SCORES FOR INCOMING MEDICAL STUDENTS 3.85 AVERAGE GPA FOR INCOMING MEDICAL STUDENTS

294 PHD STUDENTS 101 MASTER'S STUDENTS



Applying Precision Education to Train Physicians

The School of Medicine received a \$25,000 one-year education grant from the American Medical Association last fall and joined the AMA ChangeMedED Consortium—a select group committed to developing, implementing, and disseminating innovative projects that promote systemic change to better train future physicians.

Grant awardees—approximately a dozen each year—focus on applying precision education across the medical education continuum, from medical school and residency to continuing medical education.

PRESTIGIOUS NIH TRAINING FELLOWSHIPS



The National Institutes of Health

awarded prestigious F30 fellowships totaling \$446,595 to three Medical Science Training Program students. These highly selective fellowships support trainees during the last one or two years of their PhD and for an equivalent amount of time in their clinical education. This year's recipients (left to right) are Evan Lamb, Gustavo Pacheco, and Ryan Mulligan. They join eight other F30 and two American Heart Association fellowship awardees in the current cohort of MSTP trainees.

PUBLIC HEALTH STUDENT NAMED UVA'S 56TH RHODES SCHOLAR

Grant GianGrasso was awarded a Rhodes Scholarship to study for a doctorate in clinical medicine at the University of Oxford. He is one of 32 Americans selected for the program. UVA is proud to have the most Rhodes Scholars of any public university.

Both as a UVA undergrad and while pursuing his master's degree in public health, GianGrasso has studied infectious diseases. He also serves as editor-in-chief of *The Virginia Medical Review,* which publishes science and medical writing from student authors at universities across the state.



Program for Visiting Researchers from Poland Turns 20

Education

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For the past 20 years, the School of Medicine has welcomed students from institutions across Poland to participate in BioLAB—a program for visiting researchers. The students, most enrolled in MS programs, spend a year conducting independent research projects under the mentorship of faculty members.

Since its inception, the program has hosted 270 students who have contributed to the research of 110 faculty—mostly in the School of Medicine, but also in the College and Graduate School of Arts and Sciences and the School of Engineering and Applied Sciences. At the end of each year, BioLAB participants present their work, with judging from former BioLAB students who are current biomedical sciences grad students.





Students Commended for Health Policy Development

The American Medical Association

recognized two UVA medical students— Ishaan Rischie '26 (far left) and Shreya Mandava '24—for outstanding engagement and leadership as students in health policy development and advocacy. Both Rischie and Mandava hold multiple leadership positions within the AMA Medical Student Section as well as within other specialty and state medical societies. They have spurred the development of policies on a range of topics, including medical student wellness, gender equity, and health insurance reform.

Many policies they supported have been adopted as national policy that will direct the AMA's future advocacy.

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ADVANCING ASSESSMENT OF MEDICAL EDUCATION

NBME

UVA is one of six institutions awarded a major research grant for improving medical education by aligning medical school assessments with residency performance. The two-year, \$150,000 grant is sponsored by the National Board of Medical Examiner's Stemmler Fund, one of the most prestigious funding mechanisms in medical education. Each year, no more than three such awards are given to research teams in support of their efforts to drive innovation.



Graduate Medical Education Programs Reaccredited with Outstanding Marks

The School's Graduate Medical Education training programs earned Continued Accreditation status with zero citations and zero areas for improvement from the Accreditation Council for Graduate Medical Education. "Our GME program is one of the strongest in the nation and attracts highly competitive applicants," says School of Medicine Dean Melina Kibbe. "This flawless accreditation is validation of a teaching program with a long tradition of developing physicians of the highest caliber who excel in all aspects of patient care and research."

Monica Lawrence, MD (2nd from left with Allergy & Immunology fellows), agrees. As the associate dean for the program, she notes "This is a really remarkable accomplishment given the size of our GME enterprise and recent leadership changes. It is a credit to the outstanding work of our dedicated program directors and coordinators, and GME staff as well as UVA Health leadership's support."





More than 800 residents (left) and fellows (right) train in 84 UVA Graduate Medical Education programs.

Clinical

As part of a \$4 billion healthcare enterprise, with 20 clinical departments and more than 1,000 physicians, the School's patientcentered clinical approach is devoted to reshaping medical practice and meeting the health needs of our community and beyond.

CLINICAL BY THE NUMBERS

HOSPITALS IN VIRGINIA 1,056 HOSPITAL BEDS

1.3M

#1 U.S. NEWS & WORLD REPORT BEST CHILDREN'S HOSPITALS IN VIRGINIA 49.8K

#39 NEWS BEST HOSP IN TH

HOSPITALS

NEWSWEEK BEST HOSPITALS IN THE U.S. #50 NEWSWEEK BEST CANCER HOSPITALS IN THE U.S.

67.6K

"There is no greater goal at the UVA School of Medicine than to provide the world's best patient care."

Clinical

Melina Kibbe, MD Dean, UVA School of Medicine, and Chief Health Affairs Officer, UVA Health



Expert Advice to Reduce the Risk of Liver Disease



NPR recently interviewed Neeral Shah, MD, about the practice of "Dry January": taking a break from alcohol for 31 days after the holidays. Alcohol is processed by the liver, so repeated consumption can lead to inflammation and scarring. According to Shah, Dry January allows the liver to recover and rejuvenate. Other benefits include lower blood pressure, clearer complexion, and weight loss. And, Shah told *UVA Today*, "people who participate in Dry January do not always go back to their previous intake after the month is over."

Innovative Clinical Trial Engages Appalachia Residents in Quit Smoking Campaign

After years focused on reducing cancer health disparities in Appalachia, Melissa Little, MD, MPH, is leading an innovative clinical trial sponsored by the National Institutes of Health. The QuitAid trial partners with 14 independent community pharmacies to offer pharmacist-delivered medication therapy in this region with one of the country's highest cancer rates. Backed by more than \$5 million in funding from the National Cancer Institute, this partnership between UVA Health and pharmacies will test the effectiveness of multiple smoking cessation programs, including one based on text messaging.

Dr. Little's work aligns with UVA Health's strategic plan initiative to deepen engagement with and foster healthy communities.

Cutting-Edge Invention Measures Labored Breathing

Shrirang Gadrey, MD, internal medicine physician, invented a device to measure labored breathing precisely, much as sphygmomanometers and thermometers do for blood pressure and temperature. ARK—or Analysis of Respiratory Kinematics—helps clarify when a patient needs to be in the ICU. ARK is currently in prototype form.

Children are dying of pneumonia worldwide, Gadrey told *UVA Today*, when community health workers cannot accurately count respiratory rates at bedside. "If the health workers have ARK," he said, "more kids could get antibiotics sooner. So, ARK can not only benefit a cutting-edge, First World hospital like UVA Health University Medical Center, but [also] a simple primary care center in the most remote part of the world."





White House Leader Visits UVA Cancer Center

In March 2024, following President Biden's State of the Union Address, a White House leader visited UVA Comprehensive Cancer Center: Danielle Carnival (third from left), deputy assistant to the president for Cancer Moonshot.

Under Cancer Moonshot, seven leading health insurance companies serving more than 150 million Americans—agreed to begin paying for navigation services to guide patients through their cancer journeys. Navigators have been shown to significantly improve health outcomes and the patient experience.

Newsweek, Leapfrog, USNWR and Others Applaud UVA Health

All four UVA Health medical centers—in Charlottesville, Culpeper, Haymarket, and Manassas—earned "A" Hospital Safety Grades for fall 2023 from **The Leapfrog Group**, a national nonprofit that rates hospitals for patient care. Leapfrog also recognized the UVA Health University Medical Center as a 2023 top teaching hospital.

Newsweek "World's Best Hospitals 2024" guide ranks University Medical Center as the No. 1 hospital in Virginia, No. 39 hospital in the United States, and among the world's top 250. *Newsweek* also ranked UVA Health as a top U.S. ambulatory surgery center, and among the world's most specialized hospitals for neurosurgery, oncology, and cardiology. In 2023, *Newsweek* ranked the medical center as the No. 1 cancer hospital in Virginia and No. 50 in the United States.

In its 2023 "Best Hospitals" survey, **U.S. News & World Report** ranked University Medical Center No. 3 in Virginia, with five high-performing clinical specialties: cancer, gastroenterology and GI surgery, orthopedics, pulmonology and lung surgery, and urology.

Forbes ranked UVA Health No. 17 among the best employers in Virginia—the second consecutive year to earn a spot in *Forbes*' state-by-state rankings.

Becker's Hospital Review recognized UVA Health in multiple list rankings in 2023: "150 top places to work in healthcare," "Great Hospitals in America," 100 hospitals and health systems with great heart programs, and 100 hospitals and health systems with great orthopedic programs.

UVA Health was named a "best in class" health system in Virginia by both consumers and healthcare providers in all five specialties surveyed by **WebMD** and **Medscape**: cancer, heart, orthopedics, neurology, and digestive health care.

Children's Miracle Network Hospitals named as its "local champion" a patient at UVA Health Children's, whose journey will be shared in the community to bring awareness to the critical care available at UVA Health Children's.





Newsweek



Forbes

HOSPITAL REVIEW

WebMD Medscape

Community

UVA School of Medicine focuses on being both great and good—serving our larger community through medical outreach, philanthropy, top-of-the-line clinical practices, and compassion.

COMMUNITY BY THE NUMBERS





"The heart of the UVA School of Medicine shows up in how we compassionately engage and serve our community."

(ommunity)

Tracy M. Downs, MD Senior Associate Dean for Diversity, Equity, and Inclusion

> VOLUNTEERS AT CHARLOTTESVILLE FREE CLINIC

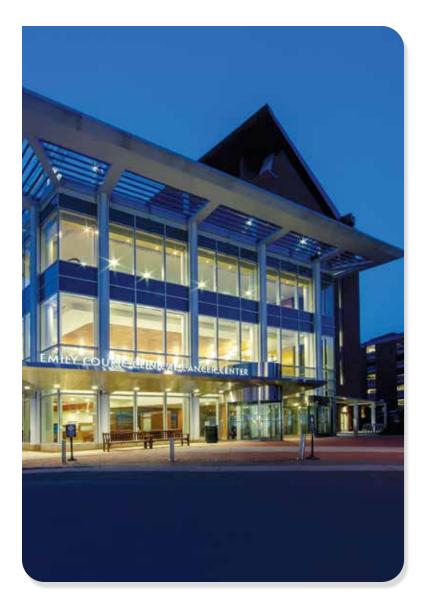
SCHOOL OF MEDICINE CAMPUSES

139

446 MEDICAL STUDENT COMMUNITY PARTNERSHIPS

Cancer Center Funds Five Community Grants

The UVA Cancer Center backed five one-year community projects to reduce cancer-related disparities across its service area of 3.2 million people. Each organization received \$10,000—placing UVA Cancer Center expertise and funding behind powerful grassroots initiatives in communities across the state. The projects ranged from colorectal cancer screening and education, to practical tools that keep children virtually connected with their peers while undergoing cancer treatment, to apartment renovations so that families of pediatric cancer and transplant patients can enjoy a home away from home during treatment at UVA Health Children's.



TRAINEES EXAMINE HOUSING INSECURITY'S IMPACT ON HEALTH



In recognition of the enormous impact that housing insecurity has on health outcomes, UVA focused on this pressing issue during its sixth-annual Trainee Diversity and Inclusion Conference. The April event aligned with National Fair Housing Month.

Attendees examined the housing issue from various perspectives: community, health system, and infrastructural—all to better understand housing insecurity and how it directly affects clinical outcomes.

The day's events also included a panel with representatives from Charlottesville community nonprofits, discussing the important role community partners play in fighting housing inequality.

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Community



New Leadership Institute Launched

The UVA Health Leadership Institute graduated its first 33-member cohort in February 2024 and launched its second in March. The institute's mission is to make UVA Health the best place to work by providing leadership development for team members at different phases of their careers, from across all of UVA Health.

More than 250 applications flooded in for the first HLI cohort. Participants met for a half day each month, for eight months, to learn from each other and from presenters across UVA Health. Each cohort also divided into multidisciplinary teams to work on capstone projects that tackled critical challenges and priorities for the health system. "The phrase 'healthcare is a team sport' was made readily apparent through all the exercises and workshops. What I learned from my capstone group will influence how I lead our diverse healthcare teams going forward."

Arun Krishnaraj, MD, MPH, Professor of Radiology and Medical Imaging

"The [presenters] emphasized how staying true to their personal values and the mission and vision of their organizations helped them navigate difficult times and make tough decisions."

Mesha Jones, MSN, RN



INTERACTIVE COMMUNITY FAIR CHAMPIONS SAFETY AND WELLNESS

In June, UVA joined the Charlottesville community health program WellAWARE for its Healthy Streets, Healthy People fair. Attendees enjoyed fun activities; practical wellness training related to health, street safety, and environmental well-being; and giveaways. UVA medical students and undergrads helped organize yard games for children who attended.

Students Engage in Medicine Through Hands-On Learning

UVA is committed to offering exposure to the field of medicine for local school students from backgrounds that are underrepresented in medicine. Here are some updates from this year:

In a symposium hosted

by the Department of Neurosurgery, eighth-grade students from local schools visited the UVA Medical Center to learn about neurosurgery, neuroscience, and oncology. They particularly enjoyed practicing procedures in the simulation center. And then with children ages 2–10, volunteers from the Neuroscience **Graduate Program** and Department of Neuroscience hosted a Brain Awareness Table at Kid*Vention, a local science festival.

Charlottesville sixthgrade students enjoyed Tour of the Town, where they visited local institutions to learn about potential career options. Among other skills, at the School of Medicine's simulation center they learned to intubate, prepare patients for surgery, and use the ultrasound machine. The visit was organized between various UVA Health entities and City of Promise-a local organization committed to eliminating generational poverty.

Through the year-long

Discover Medicine program, hosted by the Student National Medical Association chapter, 32 students explored monthly interactive activities—each time focusing on a different organ system, ranging from pulmonary to musculoskeletal and gastrointestinal.

During an eight-week

course called SOAR— School of Medicine's Summer Opportunities in Academic Research —six high-school students balanced classroom learning with hands-on research in UVA biomedical labs as they explored medical careers in STEM (science, technology, engineering, and math).

On National DNA Day,

faculty and trainees from the Center for Public Health Genomics traveled to a local public school to engage middle- and high-school students in educational activities about genomics.

Diversity

The UVA School of Medicine promotes diversity and continues to further its strategic goals of transforming health care, erasing disparities, and inspiring hope regardless of gender, age, race, ethnicity, nationality, religion, disability, sexual orientation, or gender identity.

DIVERSITY BY THE NUMBERS 50% FEMALE FACULTY FEMALE TRAINEES 66% 52% FEMALE MEDICAL FEMALE GRADUATE STUDENTS STUDENTS 12% URIM* FACULTY **URIM* TRAINEES** 18% 23% URIM* URIM* GRADUATE MEDICAL STUDENTS STUDENTS *underrepresented in medicine

DIVERSITY

18



International Partnership with Tanzania Develops Leaders

A visiting faculty scholar from Kibong'oto Infectious Diseases Hospital in Tanzania paired up with UVA doctors to address the intersection of noncommunicable and infectious diseases in Tanzania. Stellah Mpagama, MD, PhD, co-leads the work with Scott Heysell, MD, MPH, associate professor in the Department of Medicine's Division of Infectious Diseases and director of UVA's Center for Global Health Equity. The two received a supplemental award to their D43 training grant, which will support eight UVA undergraduates from underrepresented backgrounds to join Tanzanian scientist-led research teams over two years.

"We seek to increase diversity, equity, and inclusion across our mission areas, to better reflect the communities we faithfully serve."

Tracy M. Downs, MD Senior Associate Dean for Diversity, Equity, and Inclusion



Cancer Center Initiative Furthers Equity in Research

Through the Short-Term Research Initiative for Visiting Educators (STRIVE),

Cancer Center faculty pair up with researchers from minority-serving institutions for four to six weeks of collaborative research. In its second year, STRIVE now hosts six researchers—with participants from outside Virginia for the first time.

Through STRIVE, participants enjoy valuable networking and collaborative research, while UVA's resources unlock access to research paradigms, equipment, funding, and training—all toward the goal of achieving equity in cancer research, prevention, detection, and treatment. Above, Cimona Hinton, PhD, professor at Clark Atlanta University, engages in research alongside her mentor, Kevin Janes, PhD, UVA professor of biomedical engineering.

BIMS STUDENT-ADVISOR PAIR AWARDED GILLIAM FELLOWSHIP

This year's UVA recipients of the Gilliam Fellowship, through the Howard Hughes Medical Institute, are doctoral candidate Synphane Gibbs-Shelton (at right, below) and mentor Ukpong Eyo, PhD, an assistant professor in the Department of Neuroscience (below, left). This prestigious fellowship aims to ensure that students from groups historically excluded from and underrepresented in science are prepared to assume leadership roles in science and science education. Gibbs-Shelton hopes to become a STEM educator and leader in disadvantaged communities.



SUMMER PROGRAM HOSTS DIVERSE GROUP OF PRE-MED STUDENTS

The School of Medicine's Office of Diversity, Equity, and Inclusion hosted 40 pre-med undergraduates for its Summer Medical Leadership Program. This intensive, six-week residential program—offering clinical experience, physician contact, and even MCAT prep—attracts U.S. students from underrepresented groups and disadvantaged backgrounds who are interested in careers in medicine.

"The main goal for SMLP is to show our students they are capable of achieving their dream of becoming physician leaders," said Taison D. Bell, MD, co-leader and associate professor of medicine in UVA's divisions of Infectious Disease and Pulmonary and Critical Care Medicine.



People

As they align with team leadership in a culture of respect, well-being, and advancement, the School's distinguished faculty, trainees, and staff are regularly recognized for their excellence and innovation pursuing strategic growth on a foundation of success.

PEOPLE BY THE NUMBERS



213 ENDOWED PROFESSORS

"UVA School of Medicine relies on its outstanding team members and their commitment to expertise, innovation, and compassion."

FACULTY

APPLICANTS

PROMOTED

Susan M. Pollart, MD, Senior Associate Dean for Faculty Affairs and Faculty Development

Outstanding UVA Faculty

Top-notch teaching and state-of-the-art care define the faculty at UVA School of Medicine. At the same time, faculty members shape clinical care nationwide by their service with prestigious medical societies and publications. They are making a difference every day both at home and across the nation.

Editors-in-Chief of Influential Journals





Toxins



Journal of Wound.

Ostomy and Continence



F. Winston Gwathmey, MD Clinics in Sports Medicine

Andrew Dudley, PhD

Angiogenesis

Ziv Haskal, MD International Journal of Gastrointestinal Intervention



Brant Isakson, PhD Journal of Vascular Research





Li Li, MD, PhD Family Medicine and Community Health



Stephen Munger, PhD Chemical Senses



Jason Papin, PhD PLOS Computational Biology





5-YEAR FACULTY GROWTH

Increase in faculty size across the UVA School of Medicine.



PEOPLE



In 2024, 86 faculty were promoted or tenured, nearly half of whom were women.

Presidents of Renowned Academies and Associations



Donald Dudley, MD President, American Association of OBG Foundation



Lynn Kohan, MD President, Association of Pain Program Directors



Jennifer Payne, MD President, International Marcé Society for Perinatal Mental Health



Kirsten Greene, MD

President, Society of

Academic Urologists

Daniel Murrie, PhD President, American Psychology-Law Society



Laura Shaffer, PhD CH President, Association of Ph Psychologists in Academic Er Health Centers





Michael Nelson, MD, PhD President, American Board of Allergy and Immunology



Christopher Thom, MD President, Academy of Emergency Ultrasound

Taking the Lead in National Guidelines



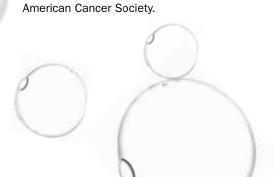




Samantha Ahdoot, MD, published a policy statement for the American Academy of Pediatrics about the threat of climate change to the physical and mental health of children, noting how pediatricians must advocate for the climate actions necessary to promote child health and equity.

Natasha Sheybani, PhD, published guidelines in the *Journal for ImmunoTherapy of Cancer* regarding focused ultrasound for targeted destruction of tumors.

Andrew Wolf, MD, served as first author of new lung cancer screening guidelines for the American Cancer Society.



People

National Award-Winning Faculty

National Distinctions



Mariano Garcia-Blanco, MD, PhD Member, American Academy of Arts and Sciences



Anne Kenworthy, PhD Fellow, American Association for the Advancement of Science



Randall Moorman, MD Fellow, National Academy of Inventors



Early Career Awards

Casey Cavanagh, PhD Excellence in Clinical Health Psychology by an Early Career Professional, American Psychological Association's Society for Health Psychology



John Kim, MD Young Physician-Scientist Award, American Society for **Clinical Investigation**

Joanna Yost, PhD

Psychology (Division 12)



Lauren Kois, PhD Saleem Shah Award for Early Career Excellence in Psychology and Law, American Psychology-Law Society and American Academy of Forensic Psychology



Rasheed Balogun, MD Presidential Award, American Society for Apheresis

Educator Awards

Michael Ayers, MD

W. Proctor Harvey, MD Young

Teacher Award, American

College of Cardiology

Robin LeGallo, MD

Michele Raible Distinguished

Achievement Award for



Philip Chow, PhD Extraordinary Dedication Award. International Society for Research American Society for Bioethics on Internet Interventions

Taylor Gilmore, MD

and Gynecologists



Mary Faith Marshall, PhD Distinguished Service Award. and Humanities



Mark Romness, MD Service Award, American Distinguished Service Award. Academy of Orthopaedic American Psychological Association, Society of Clinical Surgeons

Leadership/Achievement/Innovation Awards



Stewart Babbott, MD Master, American College of Physicians



Fern Hauck, MD Public Health Award. Academy of Family Physicians



Jiang He. PhD Distinguished Investigator. Academy of Radiology & Biomedical Imaging Research

Anne M. Mills, MD

Lifetime Achievement

Award, College of

American Pathologists



Sigma Theta Tau International

Honor Society of Nursing

Edward Kelly, PhD Mvers Memorial Medal, Society for



Mohan Nadkarni, MD Master, American College of Physicians





Andrew Parsons, MD Herbert S. Waxman Award for Outstanding Medical Student Educator, American College of Physicians



Kathryn Xixis, MD A.B. Baker Teacher Recognition Award, American Academy of Neurology



Debra Perina, MD

John G. Wiegenstein

Leadership Award,

American College of

Emergency Physicians



Agnes Pockels Award in Lipids and Membrane **Biophysics, Biophysical Society**



Thomas Platts-Mills, MD Distinguished Scientist Award, American Academy of Allergy, Asthma & Immunology



Susan M. Pollart, MD Laura Lynch Community Impact Award, Hedwig van Ameringen Executive Leadership in Academic Medicine and Executive Leadership in Health Care



Senior Research Award, Academic Pediatric Association



Vanessa Shami, MD Research Mentor Award, American Gastroenterological Association





Michael Ryan, MD Research/Scholarship Award, Council on Medical Student Education in Pediatrics

Capturing National Media Attention



Laurie Archbald-Pannone, MD-

Wrote an article about polypharmacy (the taking of multiple medications) that was featured in more than 100 national news outlets.



Featured in a story about the U.S. shortage of residency slots covered by news outlets around the country.

Heather DeReus, MD-



Kyle Enfield, MD—Contributed to a *Time* magazine article about humidifier use in cold weather to decrease dryness, which can lead to nose and throat irritation.

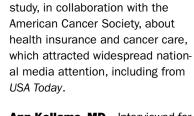


Synphane Gibbs-Shelton, PhD Candidate—Wrote an article for *The Conversation* that was covered in news outlets nationally about the role microglia play in seizures.

Tajie Harris, PhD—Featured in *The New York Times* and *Time* magazine discussing the effects of parasites on the human brain.

Chris Holstege, MD—Featured in more than 150 news outlets nationally, including *U.S. News & World Report*, for his study about increasing calls to U.S. poison centers involving "magic mushrooms."





Xin Hu, PhD—First author of a



Ann Kellams, MD—Interviewed for an article in *Time* magazine about the latest baby formula recall due to potential bacterial contamination.



Irène Mathieu, MD—Wrote an article for *The Conversation* that attracted major media attention about using the humanities as part of medical education to address health inequity.



Adishesh K. Narahari, MD—

JoAnn Pinkerton, MD—

Kenneth Walsh, PhD—

males and females.

pause drugs.

Interviewed by "NBC Nightly

Interviewed by CNN about his DNA sequence analysis of the

Y chromosome and its part in the

difference in lifespans between

News" about nonhormonal meno-

Authored a scientific paper about surgeons struggling to find funding beyond early careers, which was published in *Annals of Surgery* and picked up by more than 100 news outlets.







Published research about allergic responses to common foods that could increase risk of heart disease and cardiovascular death, which was covered in over 125 national news outlets, including U.S. News & World Report and HealthDay.

Ifrah Zawar, MD—Interviewed by *The Lancet Neurology* about her career and research, then featured in hundreds of media outlets—including *U.S. News & World Report*—for her study on epilepsy patients and cognitive decline. Na

Alumni

The University of Virginia School of Medicine is grateful for the active and growing community of the UVA Medical Alumni Association and Medical School Foundation, which strengthens connections and provides support to alumni, students, staff, and faculty.

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Barry J. Collins Associate Dean for Medical Alumni Affairs

compassion around the world."



Mentoring Opportunities Invigorate Alumni and Students

The Student-Alumni Mentoring Program is now in its third year of matching current medical students with MD alumni—with more than 125 student-alumni matches in 2024. The program, which runs February–December, creates mutually rewarding relationships focused on career development and community building. Mentors provide guidance and support to students by exchanging ideas, relating their experiences, and sharing knowledge of career paths. Pictured here are Sunny Murthy, MD '24 (left), and his mentor, Nishant Patel, MD '12.



Cameron Muir, MD '93, board president of the UVA Medical Alumni Association, holding an item from the toolkit given to incoming medical students, which is made possible by the Class of 1963 and generous donations to the Annual Fund.

Alumni Association Commends Achievements

The UVA Medical Alumni Association presented the following awards this year:



DISTINGUISHED ACHIEVEMENT AWARD **Michael R. Nelson**, MD '89, PhD '93, UVA Professor of Medicine, Division of Allergy and Immunology

WALTER REED



DISTINGUISHED ACHIEVEMENT AWARD IN BIOMEDICAL SCIENCES **Catherine A. Christian-Hinman**, PhD '08



MD EARLY ACHIEVEMENT AWARD **Kristen Leeman**, MD '06



OUTSTANDING MEDICAL ALUMNUS AWARD **Nora Kern**, MD '08, UVA Associate Professor of Urology, Division of Pediatric Urology

EARLY ACHIEVEMENT AWARD

IN BIOMEDICAL SCIENCES

Kristian Hargadon,

HUMANITARIAN AWARD

Joseph F. Smiddy,

PhD '07

MD '67



GENEROSITY EXPANDS POSSIBILITIES

The generosity of the alumni community makes it possible for the UVA Medical Alumni Association and Medical School Foundation to offer valuable programs, events, and scholarships. This legacy of giving helps UVA attract and train the physicians and scientists who will follow in their footsteps.

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ALUMNI

Alumni Cultivate Exciting Connections

Over the past year, School of Medicine alumni enjoyed many opportunities to connect, including the 2023 Fall Alumni Weekend for recent graduates and the 2024 Medical School Reunion Weekend, which celebrated milestone reunions and the induction of Class of 1974 alumni into the 1819 Alumni Society.

Other events included mini-reunions and regional events, a reception during the University's Black Alumni Weekend, an alumni-student networking event at the Inova Fairfax Medical Campus, and an inaugural event for Master of Public Health alumni in Northern Virginia. The Medical Alumni Association also helped connect former UVA residents and fellows by supporting more than 25 department events, including receptions at professional conferences.



Philanthropy

Philanthropy to the School of Medicine and UVA Health in FY2024 totaled \$122 million. This support advances the School's mission, places it at the forefront of research and innovation, provides generous scholarships to promising students, and enables the recruitment of world-class faculty and staff.

IMPACT OF GIVING

18 ENDOWMENTS

9,474

7,654

"The support from our visionary donors enables the exceptional research, discovery, and education for which UVA School of Medicine is widely known."

Amy S. Karr Senior Associate Vice President, UVA Health Development

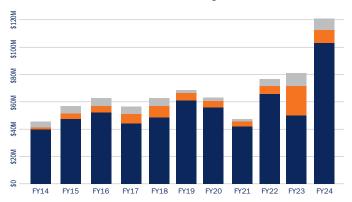


Extraordinary Gift Funds Alzheimer's and Related Diseases' Research

The family of two of UVA's most generous benefactors—the late David (Col '39, Law '41) and Mary Harrison—has committed \$30 million to help fund the future of medicine. This extraordinary gift will create the Harrison Family Translational Research Center in Alzheimer's and Neurodegenerative Diseases to be located in the Paul and Diane Manning Institute of Biotechnology. The Center will be home to a leading-edge research program dedicated to the next generation of therapies for Alzheimer's and related diseases. Funding for the Center is provided by the Harrison Foundation and the Mary Anderson Harrison Foundation.

PHILANTHROPY FOR UVA HEALTH

KEY: School of Medicine School of Nursing Medical Center



*FY23 figure excludes the extraordinary \$100 million gift from Paul and Diane Manning for the Manning Institute of Biotechnology



Paying It Forward to Support Medical Students

Peter Sim, MD (Med '73) and his wife, Anna, made a provision in their estate to establish a merit scholarship that annually supports a minimum of two medical students. The Sims made the gift in honor of Peter's father, Alan. Peter says Alan was "always a champion of education" and had himself benefited from a donation allowing him to complete his college degree during the Great Depression. Feeling fortunate for that history of generosity and for having graduated from the School of Medicine with minimal debt in 1973, Peter says he and Anna wanted to pay it forward.

Generous Donations Reinforce Commitment to Nanotechnology



Thanks to a family's gift, amplified by matching support from UVA's **Bicentennial Professors Fund, Evan** Scott, PhD, has been nominated to receive the new David Goodman Family Bicentennial Professorship in Nanomedicine. Scott, pictured to the right of David and Mia Goodman in the accompanying photo, is the incoming director of nanoSTAR-the Institute for Nanoscale Scientific and Technological Advanced Research. NanoSTAR will leverage new opportunities for research and development made possible by the pending launch of the Paul and Diane Manning Institute of Biotechnology.

ONGOING COMMITMENT TO NEUROLOGICAL RESEARCH



Ken (Col '75, Med '79) and Nina Botsford made a commitment to create the Nina and Ken Botsford Bicentennial Professorship in Neurology-to be held in perpetuity by the chair of the Department of Neurology. Xuemei Huang, MD, PhD, a distinguished leader, clinician, educator, and scientist, started in this position on August 1. Additionally, the Botsfords will create the Nina and Ken Botsford Research Fund in Neurology through their estate to fuel groundbreaking research in Alzheimer's, Parkinson's, and other neurodegenerative disorders to benefit future patients.

CHARITABLE GIVING AMPLIFIES PSYCHIATRIC RESEARCH AND EDUCATION



Bonnie and Wick Moorman made a commitment to enhance research and educational programming in the Department of Psychiatry and Neurobehavioral Sciences. Their gift will create a Psychiatric Strategic Advancement Fund, a Psychiatric Research Seed Fund, and the Zachariah C. Dameron III Endowed Lectureship in Psychiatry.

Financial

The University of Virginia School of Medicine is building the future through financial stewardship.

"Our highest ever consolidated revenue is an indicator of success across all the missions of the School."

Jeremy Sibiski Chief Operating Officer

OVER THE LAST 5 YEARS

29% INCREASE IN NET PATIENT SERVICE REVENUE



25% INCREASE IN RESEARCH REVENUE

222% INCREASE IN SCHOLARSHIP/ FELLOWSHIP SUPPORT



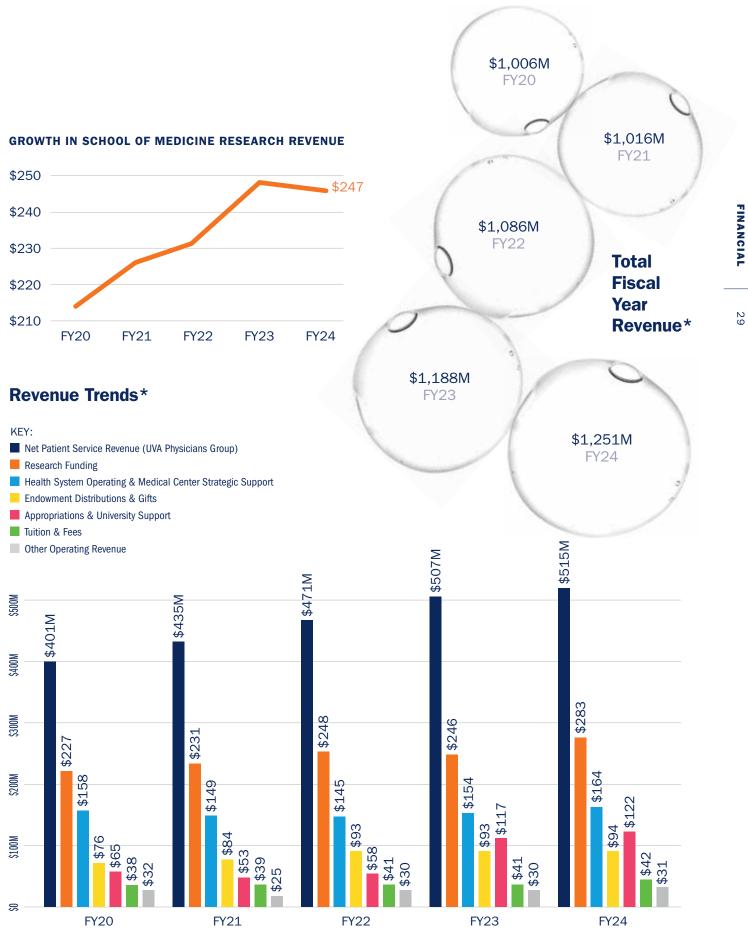
Sustained Growth

With more than a 22% increase in scholarship and fellowship support, the UVA School of Medicine is able to reduce the financial burden for our incredibly talented students and trainees.

Over the past five years, the School attained more than 25% growth in research revenue and net patient service revenue. This provides a strong foundation for all mission areas of the School and supports our efforts to strategically grow research and optimize the educational experiences of students.

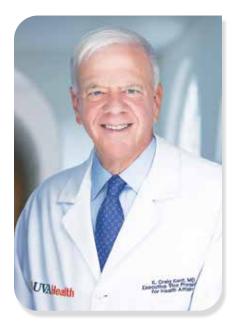


SCHOLARSHIP & FELLOWSHIP SUPPORT PROVIDED



*Includes practice plan revenue generated by UVA Physicians Group

Leadership



In this annual report, we proudly share a host of recent clinical, research, educational, and community successes that further advance our goal for the UVA School of Medicine and UVA Health to be national leaders in academic medicine and among academic health systems. As the CEO of UVA Health, I am pleased to feature many of our systemwide accomplishments over the past year.

The UVA School of Medicine is integral to the success of UVA Health, with our physicians, researchers, and teachers providing clinical excellence, innovative research, educating the next generation of care providers, and serving our many diverse communities. In 2024, the School of Medicine's research funding expanded by an amazing 25 percent, moving the school up four positions to 38th in the nation and 19th among public institutions in the Blue Ridge Institute for Medical Research rankings. Dean Melina Kibbe and the faculty of the school deserve high praise for this impressive accomplishment.

UVA Health has seen significant growth over the past several years. We now employ approximately 18,000 team members across our health system, inclusive of University Medical Center, UVA School of Medicine, UVA School of Nursing, University Physician's Group, UVA Community Health, UVA Community Health Medical Group, and the Claude Moore Health Sciences Library. The demand for our six hospitals and 240-plus clinics seems endless, and we are continuing to grow our facilities, faculty, and staff. Our overall clinic visits surpassed 1.3 million this past year, and with more than 1,000 hospital beds, we see more than 50,000 inpatient admissions annually across the health system.

In 2024, UVA Health was honored with several national workplace accolades, including being named a "top place to work in healthcare" and as one of the top 30 "most trusted health systems" nationally by *Becker's Hospital Review*. Additionally, *Forbes* ranked UVA Health No. 9 among health systems nationally as a "Best Employer for Diversity" and No. 24 on its comprehensive list of best large health system employers.

Our footprint continues to grow and includes our 700-bed flagship hospital in Charlottesville, hospitals in Northern Virginia, partial ownership of a five-hospital system (Riverside Health) in Eastern Virginia, as well as numerous affiliations in South Central and Southwestern Virginia. As we continue to pursue additional growth opportunities, our focus is on providing our patients across Virginia and beyond access to exemplary healthcare as close to home as possible.

Since its December 2023 groundbreaking, we have made incredible progress on the UVA Paul and Diane Manning Institute of Biotechnology, which will impact the health of our patients and economic development of our communities through a pipeline of new therapeutics that will improve and save lives. The Commonwealth of Virginia has reiterated its strong support by making an additional \$60 million financial commitment to the institute, and we were honored to have recently received an additional \$30 million philanthropic commitment from the Harrison Family for a translational neurological research center that will be a part of the institute. Our efforts in advancing biotechnology and medicine will enable our physicians and scientists to make groundbreaking discoveries here at UVA.

As we look toward the future, we anticipate considerable change in healthcare, particularly within academic health systems. I am proud that UVA Health is leading the way. We have a remarkable team that is focused on transformative ways to meet the health needs of our patients and advance the science of medicine.

With gratitude,

K. Craig Kent, MD CEO, UVA Health

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Reflecting on our efforts and accomplishments this year, I am immensely proud of the collective strides we have made at UVA Health to become one of the nation's leading public academic health systems and a best place to work. Every day, I witness the strength of our organization, which lies in the incredible alignment of our entities and team members. We are guided by a shared mission, strong values, and a bold strategic vision for the future—all centered around our guiding principle: Patients are first in everything we do.

At UVA Health University Medical Center, we are committed to transforming healthcare and better serving our team members, clinicians, and patients. Last year, we managed more than 26,000 inpatient admissions and over 1,000,000 clinic visits, delivering extraordinary care to a growing number of patients every year. To meet the rising demand, we have increased capacity within both our Mother and Baby unit and our NICU units to serve more families, including premature and sick newborns. We also are increasing our overall inpatient capacity in the Medical Center to care for more patients in need of complex care.

We are improving access to care and addressing healthcare disparities and unique health needs in our communities through our Population Health programs. Additionally, we conducted nearly 100,000 telehealth visits last year, reaching the most rural areas of Virginia and beyond to provide access to high-quality and advanced care.

As shown in this report, the collaboration among the talented medical center team members and the best and brightest clinical faculty, trainees, and students is accelerating our ability to improve the health and well-being of our patients. Innovation thrives through a collaborative and cross-disciplinary approach, and together, we are incubating ideas and innovating strategies and solutions that will push the boundaries of what's possible in healthcare.

The world of healthcare and academic medicine continues to evolve due to advances in science, technology, and meeting the evolving needs of our communities. Innovative thinking drives us forward as we explore new ways to leverage technology and AI, make medical breakthroughs, train future healthcare leaders, and provide the highest quality care to our patients when and where they need it.

Promoting an environment where we can incubate care models that are not just needed today but in 10 years creates unlimited possibilities. As we consider the tangible progress we have made in our strategic plan, I would like to sincerely thank all our colleagues within the UVA School of Medicine for their hard work, invaluable partnership, and incredible dedication to our mission of transforming health and inspiring hope for all Virginians and beyond.

With gratitude,

Wendy Horton, PharmD, MBA Chief Executive Officer, UVA Health University Medical Center

Leaders at the School of Medicine are shaping a unified future.

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ADMINISTRATION



Dean

Peggy McNaull, MD

Anesthesiology

Medicine

Madhusmita Misra, MD

Pediatrics

James Larner, MD

Radiation Oncology





CLINICAL DEPARTMENT CHAIRS

Faculty Affairs & Faculty Development

Meg Keeley, MD Senior Associate Dean for Education

Tracy M. Downs, MD Senior Associate Dean for Diversity, Equity, & Inclusion





Dean for Research



Jeremy Sibiski

Chief Operating

Officer



Chief of Staff



Allison Hol Associate Dean for Finance & Administration

RESEARCH DEPARTMENT CHAIRS



Biochemistry &





Doug DeSimone, PhD Cell Biology



Xuemei Huang, MD, PhD Neurology

Lu Q. Lee, MD, PhD

Dermatology



Andrew Muck, MD

Emergency Medicine

Mark Shaffrey, MD

Neurosurgery

Scott Hollenbeck, MD

Plastic Surgery

Allan Tsung, MD

Surgery



Li Li, MD, PhD

Family Medicine

Paola Gehrig, MD Obstetrics & Gynecology





Charles Farber, PhD

Genome Sciences

Harald Sontheimer, PhD Neuroscience

RESEARCH CENTER DIRECTORS

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Pharmacology



Immunology Research





Evan Scott, PhD Institute for Nanoscale Scientific and Technological Advanced Research





Center for Membrane and Cell Physiology



Garv Owens, PhD Robert M. Berne Cardiovascular Research Center





Robert Wilder, MD

Physical Medicine &

Rehabilitation

Colin Derdeyn, MD

Radiology & Medical

Imaging





Christopher Moskaluk, MD. PhD Pathology



Anita Clayton, MD Psychiatry & Neurobehavioral Sciences



Kirsten Greene, MD Urology











Mariano Garcia-Blanco, MD, PhD Microbiology, Immunology, & Cancer Biology



Matthew Gurka, PhD Public Health Sciences



Lukas Tamm, PhD







John Lukens, PhD Harrison Family Translational Research Center

Coleen McNamara, MD

Beirne B. Carter Center for



OUR VISION

To be the nation's leading public academic health system and best place to work, while transforming patient care, research, education, and engagement with the diverse communities we serve.



SCHOOL of MEDICINE

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