MEDICINE WITH HEART









2024















DEPARTMENT OF MEDICINE

ANNUAL REPORT

THE UNIVERSITY OF CHICAGO
UChicago Medicine
Department of Medicine

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CHAIR'S MESSAGE

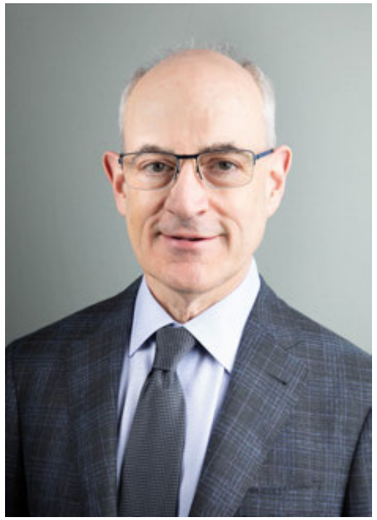
MEDICINE WITH HEART

I am pleased to present to you the 2024 Department of Medicine Annual Report entitled "Medicine with Heart". In this report you will find awards, accolades and achievements that serve as a testament to our faculty's hard work and commitment to the Department, The University of Chicago, and the Chicago South Side community. Most importantly, we want to share and highlight the work of faculty in each of our sections that are contributing to "Elevating the Human Experience". In these stories you will find that our faculty strive to improve the care and treatment for our patients and the world through their relentless and selfless dedication to research, education and clinical care. Please join me in celebrating our faculty's amazing work and continued commitment to improving the care of our patients. This year, Medicine investigators successfully competed for $185M in total cost research funding and continued to translate basic research into clinical practice with multiple innovative discoveries, publishing nearly 2,000 impactful papers with dozens in high profile journals, and conducting nearly 1,850 clinical research studies. Medicine clinicians continued to provide excellent care to patients in the emergency room, on the inpatient services, in the ICU's and in the clinic. Our expertise in these realms was acknowledged nationally with USNWR recognition for our clinical programs in gastroenterology, cancer, diabetes/endocrinology, pulmonary medicine, cardiology and geriatric medicine, and NIH top 25 recognition in research funding. Medicine educators continued to impact the lives of our 300+ trainees to successfully prepare them for careers in academic medicine.

Other notable departmental highlights from this past year include:

- Appointment of **Rishi Arora, MD** as Chief of the Section of Cardiology effective July 8, 2024
- Appointments of 3 new administrative leaders within the DOM: **Monica Peek, MD, MPH, MSc** as Vice Chair for Diversity, Equity and Inclusion; **Sonali Paul, MD, MS** as Associate Vice Chair for Diversity, Equity and Inclusion; **Anna Volerman, MD** as Chair of the Department's Women's Committee
- Three institutional leadership appointments: **Jeanne DeCara, MD** as Associate Dean of Academic Affairs for the Clinical Sciences in the Biological Sciences Division; **Abdullah Pratt, MD** as the Inaugural Faculty Director of Community Engagement for the Pritzker School of Medicine; **Krysta Wolfe, MD** as the Sepsis Quality Director for the University of Chicago Medicine Health System
- National and state recognition for the outstanding work of our faculty. For example, **Monica Peek, MD, MPH, MSc** was elected to the Association of American Physicians; **Justin Kline, MD** and **John Schneider, MD, MPH** were elected to The American Society for Clinical Investigation; **Marshall Chin, MD, MPH** was the recipient of the SGIM24 Robert J. Glaser Award; **Marcus Clark, MD** was the recipient of the Faculty Award for Excellence in PhD Teaching and Mentoring; **William Parker, MD, PhD** was the recipient of the John D. Arnold, MD Mentor Award; **Peter O'Donnell, MD** was the recipient for the 4th time in a row of the LDH Wood Preclinical Teaching Award; **Mark Siegler, MD** and **Julian Solway, MD** were honored with the Biological Sciences Division's Gold Key Distinguished Faculty Award for their dedication to the University of Chicago for 60 and 40 years respectively
- Highly successful residency and fellowship match
- Cultivation of a new generation of translational scientists via our Coggeshall Fellow and Pathway to Independence instructor appointments

I am proud to lead a Department that is comprised of clinicians, scientists and educators that are dedicated and determined to advance our tripartite missions. I commend all our faculty, trainees, and staff for their outstanding contributions to our success over the past academic year.



Everett E. Vokes, MD
John E. Ultmann Distiguished Service Professor
Chair, Department of Medicine
Physician-in-Chief, University of Chicago Medicine & Biological Sciences

DEPARTMENT ORGANIZATION

CHAIR, DEPARTMENT OF MEDICINE Everett E. Vokes, MD

EXECUTIVE COMMITTEE:

Vice Chair of Appointments & Promotions	Steven White, MD
Vice Chair of Clinical Operations	Matthew Sorrentino, MD
Vice Chair for Diversity, Equity & Inclusion	Monica Peek, MD, MPH, MSc
Vice Chair of Education	John McConville, MD
Vice Chair of Faculty Development	Deborah Burnet, MD, MAPP
Vice Chair of Research	Yoav Gilad, PhD
Vice Chair of Research	Raghu Mirmira, MD, PhD
Associate Vice Chair – Appointments & Promotions	Ted Naureckas, MD
Associate Vice Chair – Research	Sonia Kupfer, MD
Associate Vice Chair – Clinical Operations	Olwen Hahn, MD
Associate Vice Chair – Diversity, Equity & Inclusion	Keme Carter, MD
Associate Vice Chair – Diversity, Equity & Inclusion	Sonali Paul, MD, MS
Associate Vice Chair – Quality	Andrew Davis, MD
Associate Vice Chair – Quality	Celeste Thomas, MD
Associate Vice Chair – Translational Research	Jing Chen, PhD
Associate Vice Chair – Wellness & Engagement	Lisa Vinci, MD, MS
Executive Administrator	Richard Kuerston, MBA, DBA
Associate Executive Administrator	Mark Mitchell, MPA

SECTION CHIEF COUNCIL:

Biomedical Data Science	Robert Grossman, PhD
Cardiology	Rishi Arora, MD
Dermatology	Diana Bolotin, MD, PhD
Emergency Medicine	Michael Kurz, MD, MS
Endocrinology, Diabetes & Metabolism	Ronald Cohen, MD
Gastroenterology, Hepatology & Nutrition	David Rubin, MD
General Internal Medicine	Deborah Burnet, MD , MAPP
Genetic Medicine	Yoav Gilad, PhD
Geriatrics & Palliative Medicine	Stacie Levine, MD
Hematology/Oncology	Sonali Smith, MD
Hospital Medicine	David Meltzer, MD, PhD
Infectious Diseases & Global Health	Jennifer Pisano, MD
Nephrology	Arlene Chapman, MD
Pulmonary/Critical Care	Gokhan Mutlu, MD
Rheumatology	Marcus Clark, MD

COMMITTEE CHAIRS:

Diversity Committee	Monica Peek, MD, MPH, MSc
Women's Committee	Anna Volerman, MD

CHIEF RESIDENTS

2024 Chief Residents

Ashley La, MD
Fawsia Osman, MD
Ankur Srivastava, MD
Samuel Trump, MD

2025 Chief Residents

Chukwunedum Aniemeka, MD
Layne Keating, MD
Meaghan O'Hara, MD
Varun Subashchandran, MD

SENIOR MANAGEMENT:

Budget and Finance	Sunila Goel
Chief of Staff	Nancy Zavala
Clinical Research Support	Allison Buonamici
Human Resources (Academic)	Sharon Frazier
Human Resources (Staff)	Chris Yaros
Information Systems	Max Marchevsky

UNIFIED MISSION, VISION, VALUES

MISSION

As part of the University of Chicago, we pursue globally impactful solutions to seemingly unsolvable challenges. Through our rigorous research, innovative education, and comprehensive care and healing, we collaborate on life-changing advancements that create meaningful results for our community and the world, including a greater, more equitable future for all.

VISION

Together, we elevate the human experience with knowledge and health care.

VALUES

COMMIT TO EXCELLENCE

We contribute our exceptional talents to all we do and empower the same spirit of excellence in others.

EMBRACE CURIOSITY

We stay open to new ideas, champion diverse perspectives, and drive a culture of thoughtful risk taking to deliver transformative innovation.

EMBODY EQUITY

We identify systemic issues then foster change to drive a more equitable environment inclusive of diverse people, ideas, and fields of science.

GROW TOGETHER

We meaningfully collaborate with one another to create something bigger than we could ever achieve alone.

MAKE A DIFFERENCE

We lead with heart and compassion in all our interactions. We create positive change in our areas of influence whether expanding scientific inquiry, developing the next generation of leaders, or healing our community.

TAKE OWNERSHIP

We accomplish what we say we will and hold ourselves and one another accountable for our actions.

ELEVATING THE HUMAN EXPERIENCE

SPECIAL AWARDS

Elected Fellows of the American Academy of Arts and Sciences
Graeme Bell, PhD
Olufunmilayo Olopade, MD

Elected Fellows to the American Association for the Advancement of Science
Marisa Alegre, MD, PhD
Yoav Gilad, PhD

Elected Members of the Association of American Physicians
Marisa Alegre, MD, PhD
Michael A. Becker, MD
Eugene Chang, MD
Arlene Chapman, MD
Marshall Chin, MD
Marcus Clark, MD
Fredric Coe, MD
Thomas Gajewski, MD, PhD
Alan Leff, MD
Bana Jabri, MD, PhD
James Liao, MD
David Meltzer, MD, PhD
Raghu Mirmira, MD, PhD
Gokhan Mutlu, MD
Olufunmilayo Olopade, MD
Eric Pamer, MD
Monica Peek MD, MPH, MSc
Kenneth Polonsky, MD
Mark J. Ratain, MD
Samuel Refetoff, MD
Mark Siegler, MD
Julian Solway, MD
Everett Vokes, MD

Elected Members of the American Society for Clinical Investigation
Marisa Alegre, MD, PhD
Vineet Arora, MD
Michael A. Becker, MD
Eugene Chang, MD
Marcus Clark, MD
Fredric Coe, MD
Thomas Gajewski, MD, PhD
Harvey Golomb, MD
Elbert Huang, MD, MPH
Justin Kline, MD
Sonia Kupfer, MD
Alan Leff, MD
David Meltzer, MD, PhD
Raghavendra Mirmira, MD, PhD
Gokhan Mutlu, MD
Olufunmilayo Olopade, MD
Eric Pamer, MD
Akash Patnaik, MD, PhD
Kenneth Polonsky, MD
Samuel Refetoff, MD
John Schneider, MD, MPH
Julian Solway, MD
Everett Vokes, MD

Elected Member to the National Academy of Sciences
Olufunmilayo Olopade, MD

Elected Members of the National Academy of Medicine
Vineet Arora, MD
Graeme Bell, PhD
Marshall Chin, MD
Robert Gibbons, PhD
David Meltzer, MD, PhD
Olufunmilayo Olopade, MD
Monica Peek, MD, MPH, MSc
Kenneth Polonsky,MD

American College of Physicians Masters
Mark Siegler, MD

Department of Medicine Named Professorships
Mark Anderson, MD, PhD – Paul and Allene Russell Professor
Vineet Arora, MD – Herbert T. Abelson Professor
Rishi Arora, MD – Harold H. Hines Jr. Professor
Graeme Bell, PhD – Kovler Family Distinguished Professor
Eugene Chang, MD – Martin Boyer Professor
Jing Chen, PhD – Janet Davison Rowley
Distinguished Service Professor in Cancer Research
Marshall Chin, MD – Richard Parillo Family
Distinguished Service Professor in Healthcare Ethics
Thomas Gajewski, MD, PhD – AbbVie Foundation Professor
Robert Gibbons, PhD – Blum Riese Professor
Harvey Golomb, MD – Lowell T. Coggeshall Professor
Robert Grossman, PhD – Frederick H. Rawson
Distinguished Service Professor
Roberto Lang, MD – A.J. Carlson Professor
Michelle Le Beau, PhD – Arthur and Marian Edelstein Professor
Hening Lin, PhD – James and Karen Frank Family Professor
David Meltzer, MD, PhD – Fanny L. Pritzker Professor
Olufunmilayo Olopade, MD – Walter L. Palmer
Distinguished Service Professor
Monica Peek, MD – Ellen H. Block Professor for Health Justice
Eric Pamer, MD – Donald F. Steiner Professor
Louis Philipson, MD, PhD – James C. Tyree Professor in
Diabetes Research & Care
Kenneth Polonsky, MD – Richard T. Crane Distinguished Service Professor
Nanduri Prabhakar, PhD – Harold H. Hines, Jr. Professor
Mark Ratain, MD – Leon O. Jacobson Professor
Samuel Refetoff, MD – Frederick H. Rawson Professor
David Rubin, MD – The Joseph B. Kirsner Professor of Medicine
Andrey Rzhetsky, PhD- Edna K. Papazian Professor
Christopher Shea, MD – Eugene J. Van Scott Professor
Sonali Smith, MD – Elwood V. Jensen Professor
Wendy Stock, MD – Anjuli Seth Nayak Professor in Leukemia
Eve Van Cauter, PhD – Frederick H. Rawson Professor
Everett Vokes, MD – John E. Ultmann Distinguished Service Professor

DEPARTMENT OF MEDICINE AWARDS

Distinguished Service Awards
Joseph B. Kirsner, MD, PhD (2006)
Janet Rowley, MD (2007)
Louis Cohen, MD (2008)
Morton Arnsdorf, MD (2009)
Angelo Scanu, MD (2010)
Keyoumars Soltani, MD (2011)
Jesse B. Hall, MD (2013)
Roy E. Weiss, MD, PhD (2014)
Mark Siegler, MD (2014)
Samuel Refetoff, MD (2015)
Eve Van Cauter, PhD (2016)
Roberto Lang, MD (2017)
Dorothy Hanck, PhD (2017)
Linda Druelinger, MD (2018)
Michelle Le Beau, PhD (2018)
Joseph Baron, MD (2019)
Edward Garrity, Jr., MD (2019)
David Pitrak, MD (2020)
Emily Landon, MD (2020)
Kathleen Mullane, DO (2020)
Philip Hoffman, MD (2021)
Julian Solway, MD (2021)
Harvey Golomb, MD (2022)
Eileen Dolan, PhD (2023)
David Ehrmann, MD (2023)
Andrew Davis, MD, MPH (2024)

Arthur H. Rubenstein, MD Mentorship Award
Eugene B. Chang, MD (2007)
Julian Solway, MD (2008)
Jesse Hall, MD (2009)
Roberto Lang, MD (2010)
Marshall Chin, MD (2010)
Frederic Coe, MD (2011)
Olufunmilayo Olopade, MD (2012)
Deborah Burnet, MD (2013)
Mary Strek, MD (2014)
David Meltzer, MD,PhD (2015)
Wendy Stock, MD(2016)
Graeme Bell, PhD (2017)
Vineet Arora, MD (2018)
Elbert Huang, MD (2019)
Mark Ratain, MD (2020)
Mark Siegler, MD (2021)
Sonali Smith,MD (2022)
David Rubin, MD (2023)
John Schneider, MD, MPH (2024)

Leif B. Sorensen, MD, PhD Faculty Research Award
Suzanne Conzen, MD (2007)
Marisa Alegre, MD, PhD (2008)
Anne Sperling, MD (2008)
Bana Jabri, MD, PhD (2009)
Eric Svensson, MD, PhD (2010)
Elbert Huang, MD (2011)
Patrick Wilson, PhD (2012)
Konstantin Birukov, MD, PhD (2013)
Lucy Godley, MD, PhD (2013)
John Schneider, MD, MPH (2014)
Yu Ying He, PhD (2015)
Esra Tasali, MD (2016)
Monica Peek, MD (2017)
Yun Fang, PhD (2018)
Megan Huisingh-Scheetz, MD (2019)
Neda Laiteerapong, MD (2019)
Justin Kline, MD 2020)
Valerie Press, MD (2020)
Alexandra Dumistrescu, MD, PhD (2021)
Milda Saunders, MD (2021)
Arshiya Baig, MD (2022)
Alexander Pearson, MD, PhD (2022)
Mai Pho, MD (2023)
Anna Volerman, MD, MPH (2024)

Diversity Award:
Monica Vela, MD (2010)
David Howes, MD (2011)
Blanca Camoretti-Mercado, PhD (2012)
Minoli Perera, PhD (2013)
Monica Peek, MD, MPH (2014)
John Schneider, MD, MPH (2015)
James Woodruff, MD (2016)
Doriane Miller, MD (2017)
Milda Saunders, MD (2018)
Kamala Cotts, MD (2019)
Shellie Williams, MD (2020)
Keme Carter, MD (2021)
Sonali Paul, MD (2022)
Celeste Thomas, MD (2023)
Victoria Barbosa, MD, MPH, MBA (2024)

#21 IN NIH FUNDING (2023)

$185M TOTAL SPONSORED ACTIVITY

$139.8M IN FEDERAL AWARDS

$23.5M IN NON-FEDERAL AWARDS

161 NEW/RENEWED FEDERAL AWARDS

$20.2M CLINICAL TRIALS EARNINGS

13 T SERIES

2 K12 TRAINING PROGRAMS

15 K (CAREER DEVELOPMENT) GRANTS

Janet D. Rowley, MD, DSc

19TH JANET D. ROWLEY RESEARCH DAY

BEST POSTERS

From left to right: **Bhakti Patel, MD** (Research Day Committee Vice Chair), **Michael Welsh, MD** (Research Day Guest Speaker) and **Moira McNulty, MD** (Research Day Committee Chair)

Clinical Research

Junior Faculty: Katie Lee, MD
DOM-Affiliate Staff: Owen Mitchell
Trainee: Anthony Kanelidis, MD

Translational Research

Junior Faculty: Ari Rosenberg, MD
DOM-Affiliate Staff: Srikrishnan Rameshbabu
Trainee: Titli Nargis

Basic Science Research

Junior Faculty: Obada Shamaa, MD
DOM-Affiliate Staff: Peter Wang
Trainee: Jiayi Tu

Health Services/Med Ed/Social Sciences

Junior Faculty: V. Ram Krisnamoorthi
DOM-Affiliate Staff: Molly White
Trainee: Jennifer Hwang, DO

2024 Leif B. Sorensen, MD, PhD Faculty Research Award

Anna Volerman, MD

Anna Volerman, MD receiving the Department Research Award from **Everett Vokes, MD**

6 SPECIALTIES RANKED BY *U.S. NEWS & WORLD REPORT*

1,519,180 RVUS

207,170	Onsite Visits
60,414	Offsite Visits
4,124	Telemedicine Visits
17,605	Admissions

NORTHWEST INDIANA NEW FACILITY OPENED ON APRIL 29, 2024

70 *CHICAGO MAGAZINE* TOP DOCTORS

5 SPECIALTIES RANKED BY *NEWSWEEK* BEST SPECIALIZED HOSPITALS

UCM EARNS 26TH CONSECUTIVE "A" IN PATIENT SAFETY

5 SPECIALTIES RANKED FOR MOST CASTLE CONNOLLY TOP DOCTORS

2024 DEPARTMENT OF MEDICINE CLINICAL AWARDS

Clinical Productivity Awards

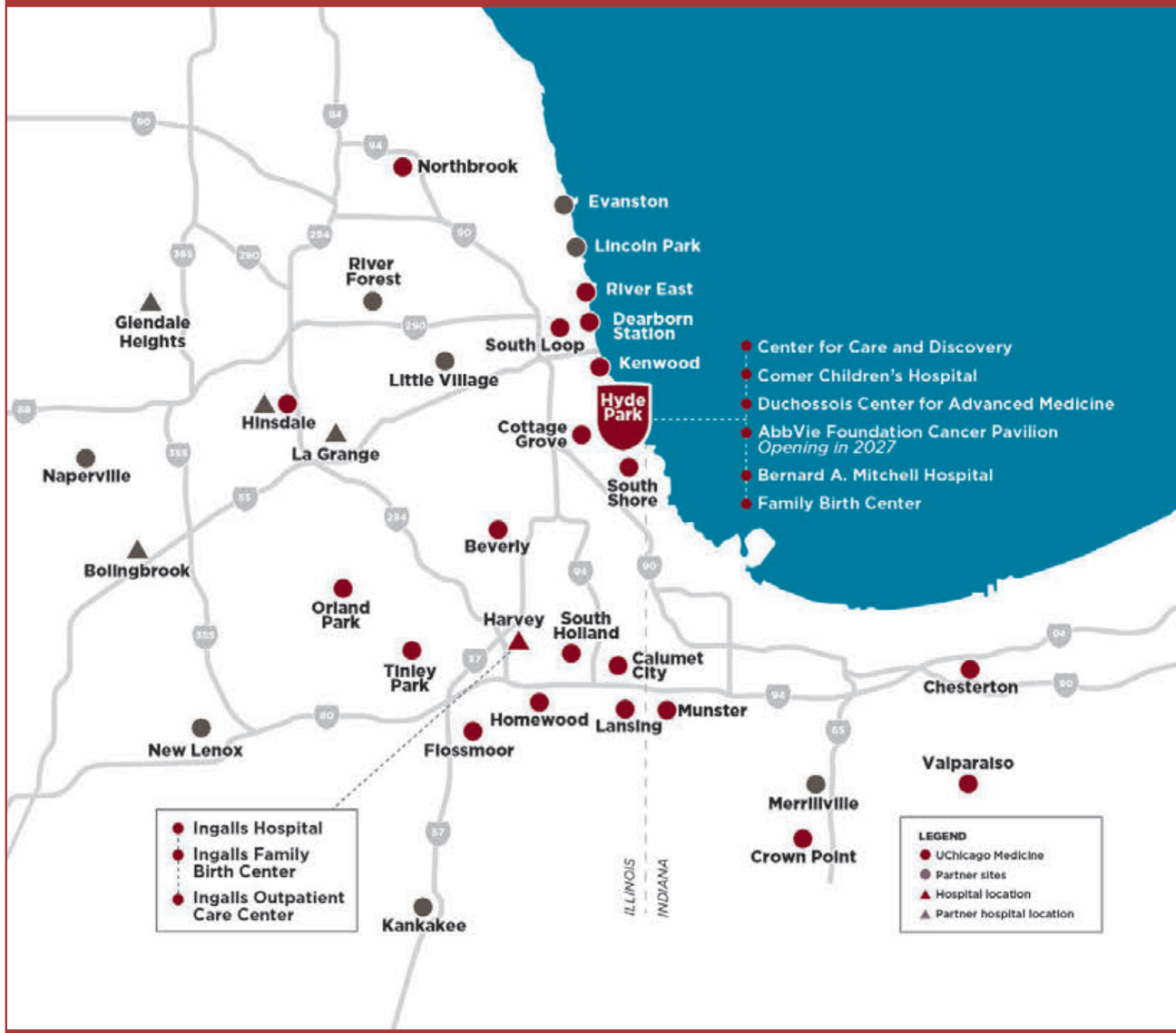
- **Procedure & Overall Clinical Activity** – Navneet Cheema, MD
- **Evaluation & Management Activity** – Lina Khamis, MD, MBA
- **Patient Visits** – Bernhard Ortel, MD
- **Outstanding Clinical Service** – Megan Prochaska, MD

Overall Clinical Excellence (New Faculty) - Rebeca Ortiz Worthington, MD, MS & Elizabeth Zavala, MD

Patient Satisfaction Award – Russell Szmulewitz, MD

NEW CANCER CENTER TO BE OPENED IN 2027

UCHICAGO MEDICINE LOCATIONS



How our Residents Matched

85% **Internal Medicine Residency (IMR) graduates pursue sub-specialty fellowship training**

34 **Residents Matching into Elite Fellowship Programs Across the Country**

11 **Residents Matching into Elite Fellowship Program at UChicago**

Specialties and # Matched

1 Allergy & Immunology
9 Cardiology
1 Infectious Disease
5 Gastroenterology
6 Hematology/Oncology
1 National Clinical Scholars Program
1 Nephrology
1 Palliative Care
1 Pediatric Critical Care
8 Pulmonary/Critical Care

How our Fellowships Matched

55% **Women Fellowships Matched**

24% **Underrepresented in Medicine Fellowships Matched**

Specialties and # Matched

1 Advance Heart Failure/Transplant
6 Cardiology
1 Critical Care
1 Dermatopathology
1 Electrophysiology
2 Endocrinology
2 Interventional Cardiology
2 Transplant Hepatology
5 Gastroenterology
2 Geriatrics
1 Geriatrics/Palliative Care
7 Hematology/Oncology
2 Hospice and Palliative Care
4 Infectious Diseases
1 Interventional Pulmonary
4 Nephrology
4 Pulmonary and Critical Care
2 Rheumatology
1 Sleep Medicine

How our Residency Matched

Internal Medicine Residency Program

- PGY1 Class of **40** Interns
  - **29** Categorical
  - **5** Physician-Scientist
  - **6** Preliminary
- **24%** Underrepresented in Medicine
- **62%** Women
- **17%** from the Pritzker School of Medicine

Medicine – Pediatrics Residency Program

- **4** Matched Residents
- **50%** Underrepresented in Medicine
- **75%** Gold Humanism Honor Society or Alpha Omega Alpha Honor Society Inductees
- Interest in addressing health disparities and caring for underserved patient populations

Dermatology Residency Program

- **4** Matched Residents
- From Premier Medical Schools
- Outstanding Students
- Significant Dermatology Research

Emergency Medicine Residency Program

- **18** Matched Residents
- **22%** Underrepresented in Medicine
- **61%** Women
- **55%** Gold Humanism Honor Society or Alpha Omega Alpha Honor Society Inductees

Department of Medicine Awards

Education

Preclinical Teacher of the Year – Jason Poston, MD
Clinical Teacher of the Year – Arshiya Baig, MD, MPH
Medical Resident Teaching Award – Jason Alexander, MD; Kamala Cotts, MD; Bhakti Patel, MD
Postgraduate Teaching Award – Katherine Thompson, MD

Emergency Medicine Education Awards

Teacher of the Year: James Walter, MD
Outstanding Mentorship: Dayle Davenport, MD
Outstanding Clinical Teaching: Michael McCartin, MD

Arthur Rubenstein Excellence in Mentorship Award

John Schneider, MD, MPH

Pritzker School of Medicine Awards

9 Department Faculty Received Favorite Faculty Awards

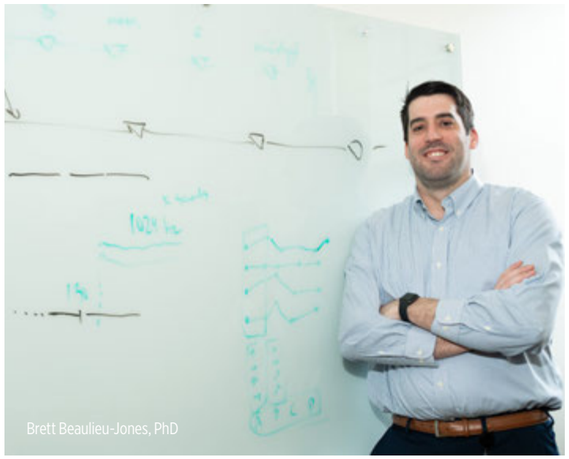
Biological Sciences Division Distinguished Faculty Awards

Distinguished Educator and Leader (Junior) – Krysta Wolfe, MD
Distinguished Educator and Leader (Senior) – James Woodruff, MD

ELEVATING HUMAN

THE EXPERIENCE


Robert Grossman, PhD


Brett Beaulieu-Jones, PhD

BIOMEDICAL DATA SCIENCE IS MAKING MORE HEALTHCARE DATA AVAILABLE FOR RESEARCH

As electronic medical records and genetic data becomes more prevalent, that data can be useful in many contexts, including research, predictive outcomes and personalized medicine. But data are only helpful if they're accessible, preferably in an integrated way. Multiple projects in the Biomedical Data Science Section are addressing these challenges — not just for UChicago's use, but nationally.

Clinical note queries

"Clinical data are incredibly messy, generated for several different reasons — with research low on the list," says Brett Beaulieu-Jones, PhD. His recent research focuses on how to make healthcare clinical data useful for biomedical discovery, quality improvement and to develop clinical models.

For one project, Beaulieu-Jones is building a system to use patients' clinical notes to query elements with discrete values, such as symptoms. "Rather than every group having to develop their own natural language processing and do manual chart review, we're trying to build that system at scale," he says. This would allow researchers with no AI background to utilize the records for clinical study.

Beaulieu-Jones is also working to quantify uncertainly in AI. With large language models, hallucinations are a problem. AI can give a give confident answer, but users need to understand the probability of it providing a correct answer. Beaulieu-Jones is building software tools to manually annotate small subsets of patient records to measure the AI model's accuracy, continually improving the model if it's not providing high performance levels.

"I feel a sense of duty for our organization to do a lot of this works because there are not many well-resourced institutions that serve a patient population that looks like ours. And so if we don't do it, this population winds up neglected," he says.

Genomics and psychiatric care predictions

Some elements of psychiatry are stuck in the 19th century, says Andrey Rzhetsky, PhD. Without testing available to confirm a patient's diagnosis, doctors sometimes rely on medications as diagnostic tools. And even patients with the same diagnosis can have completely different symptoms. That makes it difficult to determine the best treatments.

It would be helpful if doctors could predict whether patients coming to the hospital or psychiatric office required extra attention or if they would likely have one psychotic episode and recover.

Rzhetsky is addressing this issue by trying to understand the interplay of genetics and environmental factors. He is working with Columbia University, which is recruiting patients and sequencing their genomes. The phenotyping, along with accessing large insurance claims data bases, will help computational biomedical data experts like Rzhetsky build predictive models to better understand what is likely to happen to patients with psychosis within several years. Are they likely to recover or end up needing greater care?

A model like this could help triage patients, as psychiatric attention is a limited resource. If a patient is likely to have greater needs, the psychiatrist can prioritize attention to the more difficult cases.

The Veteran Affairs Data Commons

The Veteran Affairs Million Veterans Program (MVP) is a treasure trove for research, containing Veterans' genetic and clinical data from electronic health records (EHR). Accessing those records, though, historically has been difficult. Until now. Robert Grossman, PhD and Aarti Venkat, PhD worked with a team from the U.S. Department of Veterans Affairs to create the Veteran Affairs Data Commons (VADC), which allows researchers to analyze data through a software platform running a variety of research workflows. VA-approved researchers can run these queries.

The team has already completed a VADC pilot release, with more than 7,000 genome-wide association studies (GWAS) workflows. The VADC will help researchers determine what genes are associated with specific phenotypes. "This is a scalable way to run thousands of phenotypes you see in Veterans," Venkat says, from PTSD to cardiometabolic disorders.

So far, users have created 1,000 clinical cohorts, based on age, sex, BMI, smoker status and other research variables of interest, using EHR and Veteran-completed surveys. It's easy to make a new cohort based on criteria. "The whole strength of our platform is 'click click click.' Then you can understand the genes associated with the variables," she says.

Initially the project will make it easier for VA researchers to analyze the data, but eventually it will be available to qualified university researchers. The data is held in a trusted research environment, with no data leaving the platform. New records can be continually added.

Data meshes

The Genomic Data Commons in the world largest collection of harmonized cancer data in world and is used by over 90,000 researchers each month. Grossman has built more than a dozen such systems, from cancer and cardiovascular, to infectious disease, which are foundations in supporting biomedical research. Bringing together data from these commons for interoperability is difficult, though, as the data is often restricted to a particular commons or data repository.

He and colleagues spent the last few years determining how to create that interoperability to accelerate research. They're doing so now through data meshes, "some of the first data meshes that have been built in biomedical data research," he says. "They can accelerate discoveries using these large collections. And this is particularly important in the age of AI, since AI for biomedical data is data-limited."

Four data meshes have been created so far, including one for opioid use disorder and pain management, and one for medical imaging. Another is the Prometheus data mesh, which weaves together cancer data from 11 repositories including from the National Cancer Institute, VA, Department of Defense (DOD), and environmental data from different locations, to try to understand if DOD personnel exposure to potential carcinogens in different environments impacts the incidence of cancer later in life.

"We're building AI capabilities into these platforms so it's easier for people to not only access this data for AI, but also to more easily use AI to understand the data," he says.

SECTION CHIEF


Robert Grossman, PhD

HIGH IMPACT PUBLICATIONS IN *CANCER RESEARCH*, *NATURE COMPUTATIONAL SCIENCE* AND *LANCET DIGITAL HEALTH*

23 OPEN SOURCE SOFTWARE PACKAGES

$34.1M TOTAL FUNDING

1 OPEN AI MODEL

$33.5M FEDERAL FUNDING

15 OPEN DATA RESOURCES

$632K NON-FEDERAL FUNDING

FACULTY

Professors
Robert Grossman, PhD (Chief)
Andrey Rzhetsky, PhD
Assistant Professors
Brett Beaulieu-Jones, PhD
Aarti Venkat, PhD
Affiliated Faculty
Aly Khan, PhD
Alexander Pearson, MD, PhD
Section Administrator
Ann Leu

Jeremy Slivnick, MD

THE UNIVERSITY OF CHICAGO MOVES THE NEEDLE ON CARDIAC MEASURES

It's hard to properly treat a person without a solid diagnosis or the right information. Cardiologists have many tools and technologies at their fingertips but are constantly striving to improve them. Three University of Chicago initiatives are making progress in this space, improving patient care and simplifying the treatment process.

AI to identify cardiac amyloidosis

Cardiac amyloidosis is an increasingly recognized cause of heart failure which may be present in up to 8-15% of older adults with a specific form of heart failure. Although cardiac amyloidosis is almost universally fatal if not treated, lifesaving drugs have recently been developed to treat this disease. Despite these new therapies, delays in diagnosis are common and can worsen survival. Echocardiography is a key imaging test for detecting cardiac amyloidosis; however, it can miss many cases, especially when findings are subtle. "Given these issues, we felt this would be a good application for artificial intelligence," says cardiac imaging specialist Jeremy Slivnick, MD.

Slivnick and cardiologist Roberto Lang, MD are using AI to improve detection, in a joint partnership with the Mayo Clinic and with Ultromics, a company with AI model development expertise. For the global multicenter study which will result in a cardiac amyloidosis detection model, the team created a registry with nearly 13,000 patients. This diverse data set includes people diagnosed with cardiac amyloidosis, and those initially suspected to have it, but don't.

The clinicians compared the AI model results to currently used risk scores to detect cardiac amyloidosis. These risk scores use echo combined with clinical parameters, requiring manual user quantification. They've found the AI model to be fast and highly accurate, outperforming current techniques for identifying cardiac amyloidosis, Slivnick says.

These findings were presented as a late-breaking trial at the European Society of Cardiology's annual meeting, and a publication draft is in review at the European Heart Journal. The AI model is also now FDA approved and likely to be adopted by many sites in the near future. "We anticipate that this model could be broadly implemented into multiple reading systems," he says.

A change in hemodynamics

For decades, physicians described the patient's hemodynamic state as wet or dry, warm or cold, congestion versus perfusion. This is helpful in the short term, but does not tell the patient's full story or whether their heart condition is recoverable. "That prognostic piece was lacking or at least unclear until the last five years," says Jonathan Grinstein, MD.

Around that time, he and Mark Belkin, MD took an active research interest in the issue. They introduced the aortic pulsatility index (API) in 2021, representing myocardial efficiency, just one tool in the arsenal. "A patient can have decent cardiac output, but if it's at the expense of efficiency, the heart won't last very long," Grinstein says. Their new classification system defines cardiac performance through cardiac energetics — the power of the heart and efficiency of ejection. There is a shift towards using cardiac energetics and advanced hemodynamics as the new standard of care for cardiac prognostication, says Grinstein.

Mark Belkin, MD and Jonathan Grinstein, MD

Gaurav Upadhyay, MD

Better cardiac pacing

Cardiac pacing has been around since late 1950s, and has saved millions of lives. But changes are afoot, as it's become increasingly clear that pacing the heart's conduction systems can lead to better outcomes. By doing so, doctors can produce a pulse that is similar to the body's natural pulse, says Gaurav Upadhyay, MD. "We're putting the physiology back into pacing," he says.

Upadhyay focuses on people with left bundle branch block, and how to recognize when the EKG pattern is due to an actual block in the electricity traveling through the heart, or due to a muscle problem. "We were the first to report in a major publication a few years back that this surface EKG pattern can be misleading."

In the past year, Upadhyay expanded the research to find a simple way to differentiate between these patients. They use mapping studies on humans, and identified an EKG notching pattern that can differentiate those with real blocks versus those with a muscle disease leading to QRS widening. He's also researching cardiac MRI to help distinguish these patients.

"We try to identify patients who might benefit from conduction system pacing when they're getting EKGs," Upadhyay says. The simple criterion can determine the patient's likelihood of benefitting from conduction system pacing versus another approach. "We're trying to make it convenient and simple to help choose the right therapy for patients."

Upadhyay is also part of a new large, national randomized controlled trial with 63 U.S. and Canadian centers studying conduction system and biventricular pacing in patients who are candidates for cardiac resynchronization therapy. The University of Chicago was the first site activated, enrolling the first of what will be 2,000 patients in all sites. "It's probably one of the most important trials on pacing that has been performed in decades."

"At The University of Chicago, we are leading the field in adjusting the interpretation of hemodynamics to be about energetics," Belkin says. The pressure-volume debate is important for moment-by-moment patient management. But cardiac energetics address long-term patient management, using different data to help determine whether a patient's heart failure is on a path to recovery or further decline. This matters as nearly half the patients needing advanced therapy are referred too late. Cardiac energetics are better at risk prognostication than current techniques, and can potentially help a clinician offer therapy to stabilize a person in heart failure before they develop multiorgan failure. "The community is quickly adopting cardiac energetics," Belkin says.

CARDIOLOGY

SECTION CHIEF

Matthew Sorrentino, MD (interim)

Rishi Arora, MD (Efffective 7/8/2024)

NEW FACULTY

Amber Johnson, MD, MS, MBA
Prateek Sharma, MD
Stanley Swat, MD

CHICAGO MAGAZINE TOP DOCTORS

Michael Davison, MD
Jeanne DeCara, MD
Sara Kalantari, MD
Roberto Lang, MD
Matthew Sorrentino, MD
Parker Ward, MD
Sandeep Nathan, MD, MSc
Jonathan Paul, MD
Atman Shah, MD

8 NEW AMBULATORY PROGRAMS

PULMONARY ARTERIAL HYPERTENSION
HYPERTROPHIC AND GENETIC CARDIOMYOPATHIES
CARDIO-OBSTETRICS
DYSPNEA CLINIC
AMYLOID HEART DISEASE CLINIC
SARCOID HEART DISEASE CLINIC
HEART FAILURE IV THERAPY CLINIC
PERIPHERAL VASCULAR DISEASE INTERVENTIONAL CLINIC

EXCEPTIONAL WOMEN IN MEDICINE

Jeanne DeCara, MD

31,210 OUTPATIENT VISITS
4,199 PROCEDURES

NEW PROMOTIONS

Sandeep Nathan, MD, MSc (Professor)
Jonathan Grinstein, MD (Associate Professor)

$1.2M TOTAL COST GRANT FUNDING

$731K CLINICAL TRIAL EARNINGS

117 PUBLICATIONS

FACULTY

Professors
Rishi Arora, MD (chief)+
Michael Davidson, MD
Jeanne DeCara, MD
Asish Ghosh, PhD+*
Roberto Lang, MD
Victor Mor-Avi, PhD*
Sandeep Nathan, MD, MSc
Atman Shah, MD
Matthew Sorrentino, MD
Parker Ward, MD

Associate Professors
Karima Addetia, MD
Francis Alenghat, MD
Jonathan Grinstein, MD
Gene Kim, MD
Cevher Ozcan, MD
Jonathan Paul, MD
Tamar Polonsky, MD, MSCI
Gaurav Upadhyay, MD
Rongxue Wu, PhD*
Shin Yoo, PhD+*

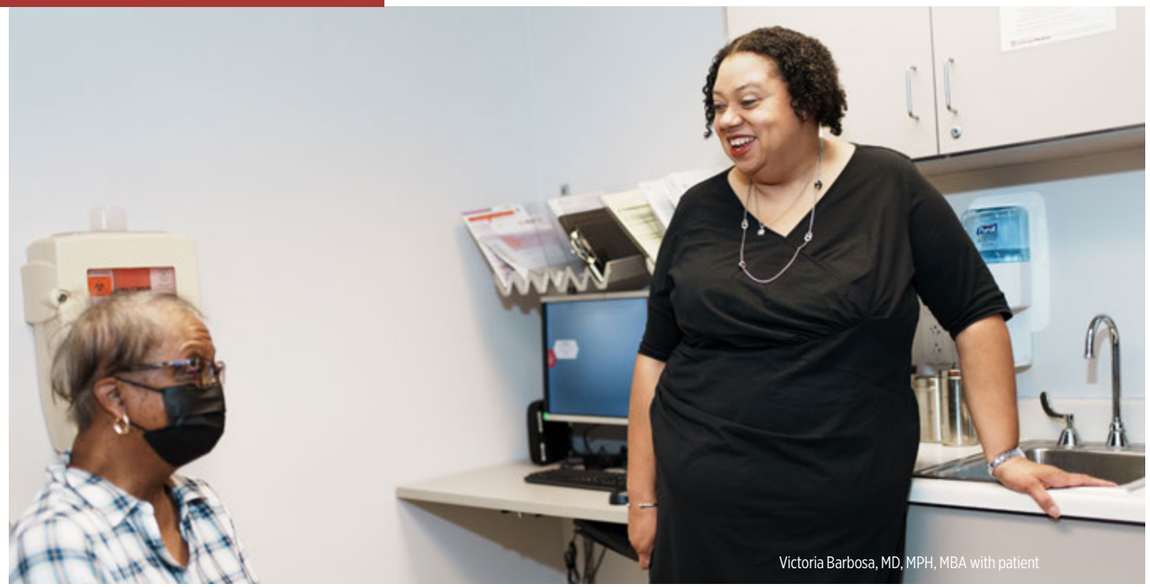
Assistant Professors
Zaid Aziz, MD
Andrew Beaser, MD
Mark Belkin, MD
Ben Chung, MD
Leo Gozdecki, DO+
Amber Johnson, MD, MS, MBA
Sara Kalantari, MD
Anthony Kanelidis, MD+
Jay Khambhati, MD+
Ann Nguyen, MD
Hena Patel, MD
Nitasha Sarswat, MD
Prateek Sharma, MD
Jeremy Slivnick, MD
Stanley Swat, MD
Corey Tabit, MD, MBA, MPH
Adam Vohra, MD, MBA+
Srinath Yeshwant, MD

Instructor
Markus Rottman, PhD+

Clinical Associates
Kathleen Drinan, DO

Section Administrator
Resham Khiani, MPH

+New FY25 Faculty
*Research Track Faculty



Victoria Barbosa, MD, MPH, MBA with patient

THIS DERMATOLOGIST IS TRYING TO IMPROVE HEALTH EQUITY IN THE FIELD

When Victoria Barbosa, MD, MPH, MBA came to The University of Chicago in 2019, it felt like the culmination of her many professional experiences. She had worked in academia, owned a dermatology practice, and built/directed the L'Oréal Institute for Ethnic Hair and Skin Research.

The University was a natural fit, she says, as she created and still directs the Hair Loss Program, while diving into student mentoring and admissions.

Barbosa was drawn to dermatology, as she could treat kids and adults, providing medical and surgical care. "The most interesting thing for me is the way that dermatology sits at the intersection of medicine and culture," she says, as hair and skin care beliefs and practices can factor into patient feelings about themselves and can influence their skin diseases.

Hair Loss Program

Hair loss is also a long-standing interest. "So many women of color, particularly Black women, suffer disproportionately from alopecia," Barbosa says. Her program began with a half-day per week hair loss clinic, which quickly grew to almost full-time. "The need for dermatologists comfortable managing alopecia is great. "While all of our dermatologists see some alopecia patients, I specialize in the more difficult hair loss cases, including inflammatory and scarring scalp diseases," she says.

Given her patients' emotional needs around hair loss, she created support group meetings in person and on Zoom. "They give people space to connect with others, as alopecia can be an isolating disease," she says.

She also planned and ran the university's first alopecia patient education conference in September 2023. Eighty patients came, many from out of the area, as they desire more education on their condition, scientific updates and treatments. Barbosa worked with Pritzker School of Medicine students on planning. "I thought I'd mentor them through the process of community engagement but I learned so much from them," she says.

Mentoring and admissions

Barbosa advises medical students throughout their medical schooling, especially in fourth year when applying for residency programs. "It's rewarding to see students who worked so hard, finding out where they'll do specialty training," she says.

She also interviews medical school applicants as an Executive Committee member. "It feels like a huge responsibility," she says, recommending those who will help shape the University's medical community and be a great fit. "For some of those students, a Pritzker admission is life-changing. The decision not to offer one admission can also be life changing."

Skin of Color Society

As founding member of the Skin of Color Society, dedicated to elevating research, advocacy and mentorship, Barbosa says she came full circle in becoming its president in 2023, at its 20th anniversary. "We have given over $2 million in research funding and mentored countless medical students into dermatology," she says. During her presidency, she is implementing three initiatives: a president's book club (sending a seminal text about skin of color to dermatology residents), a podcast for peer education, and launching a center for leadership to provide all members with the tools to be leaders in health equity.

"With the population shifting in the U.S., soon dermatology and skin of color will be inextricably linked. You won't be able to be a great dermatologist without being great at skin of color. Not everyone gets that training," she says. She wants to expand education and research to address health equity.

DERMATOLOGY

SECTION CHIEF

Diana Bolotin, MD, PhD

CHICAGO MAGAZINE TOP DOCTORS

Mark Hoffman, MD
Victoria Barbosa, MD, MPH, MBA
Diana Bolotin, MD, PhD
Arlene Ruiz de Luzuriaga, MD, MPH, MBA
Christopher Shea, MD
Sarah Stein, MD

MOST CASTLE CONNOLLY TOP DOCTORS IN DERMATOLOGY - #3 HEALTH SYSTEM AND #1 HOSPITAL IN IL

29,555 OUTPATIENT VISITS
16,774 PROCEDURES

NEW PROMOTIONS

Diana Bolotin, MD, PhD (Professor)
Sarah Stein, MD (Professor)
Arlene Ruiz de Luzuriaga, MD, MPH, MBA (Associate Professor)
Adena Rosenblatt, MD, PhD (Associate Professor)

$1.8M
TOTAL COST GRANT FUNDING

$19K CLINICAL TRIAL EARNINGS

32 PUBLICATIONS

FACULTY

Professors
Diana Bolotin, MD, PhD (Chief)
Yu-Ying He, PhD
Christopher R. Shea, MD
Keyomars Soltani, MD*
Sarah Stein, MD

Associate Professors
Victoria Barbosa, MD, MPH, MBA
Mark Hoffman, MD
Adena Rosenblatt, MD, PhD
Arlene Ruiz de Luzuriaga, MD, MPH, MBA

Assistant Professors
Mark Biro, MD+
Angad Chadha, MD
Audrey Fotouhi, MD+
Maria Estela Martinez Escala, MD, PhD+
Oluwakemi Onajin, MD
Amy Xu, MD

Clinical Associates
Juliana Basko-Plluska, MD
Scott Blaszak, MD
Emily Lund, MD
Bernhard Ortel, MD
Swapna Reddy, MD

Section Administrator
Noel Frierson-Lyttle, MHA

+FY25 New Faculty
*Emeritus Faculty

EMERGENCY MEDICINE

Bernice Fokum, MD, MPP

EMERGENCY MEDICINE GROWS, FROM FACULTY TO VEHICLES

Emergency Medicine (EM) is a relatively young specialty — it's only been about 50 years since the first EM training programs began. UChicago Medicine was one of the earliest EM residency programs nationally, and the Section continues its growth in multiple ways.

Faculty to Fellow

UChicago's storied EM history and reputation drew Bernice Fokum, MD, MPP as a resident in 2020, and she stayed on for an Emergency Medical Services (EMS) fellowship. Two other draws for Fokum were to serve the south side's historically underserved population, and to come to an institution with a strong ethos of putting resources towards its internal community, so trainees could cultivate strong relationships with one another. She appreciated that UChicago understood the minority experience in medicine and its EM Section has one of the most diverse programs in the country.

Fokum enjoyed the experience so much that she wanted a permanent role. She entered the Fellow to Faculty Transition Program, a streamlined pathway to retain talented trainees. While Fokum still had to submit an application and interview, supportive faculty leaders and Section members advocated for her, expediting the process. She is now an attending EM physician, Assistant Professor of Emergency Medicine and Assistant EMS Medical Director for Chicago South Region 11.

Michael Kurz, MD, MS with
NWI Chief Administrative Officer Lauren Hull

Crown Point Growth

In May, UChicago Medicine Crown Point opened its 130,000-square-foot multispecialty care center in Northwest Indiana. That included an eight-bed emergency department and eight-bed inpatient unit. Fully staffed with board-certified doctors, "The care they receive is exactly the same they receive if they make the trek an hour from home, to Hyde Park," says Michael Christopher Kurz, MD, MS, Section Chief of Emergency Medicine.

While EM has always served these residents, now it's a shorter drive and usually a short wait for patients as well. "It's not uncommon for us to literally see a patient in the waiting room," he says, with the physician introducing themselves and finding out the reason for the visit. Though the patient may not yet have registered or been triaged, the EM physician often places orders and labs, beginning care more quickly.

While there are some dedicated EM staff members at Crown Point, fellows and attending doctors from Chicago routinely take shifts. "It's a different practice style and environment than Hyde Park," Kurz says. There is no difference in mission or quality, but Crown Point has a lower volume and fewer trauma cases. "That allows us to spend more time with every patient."

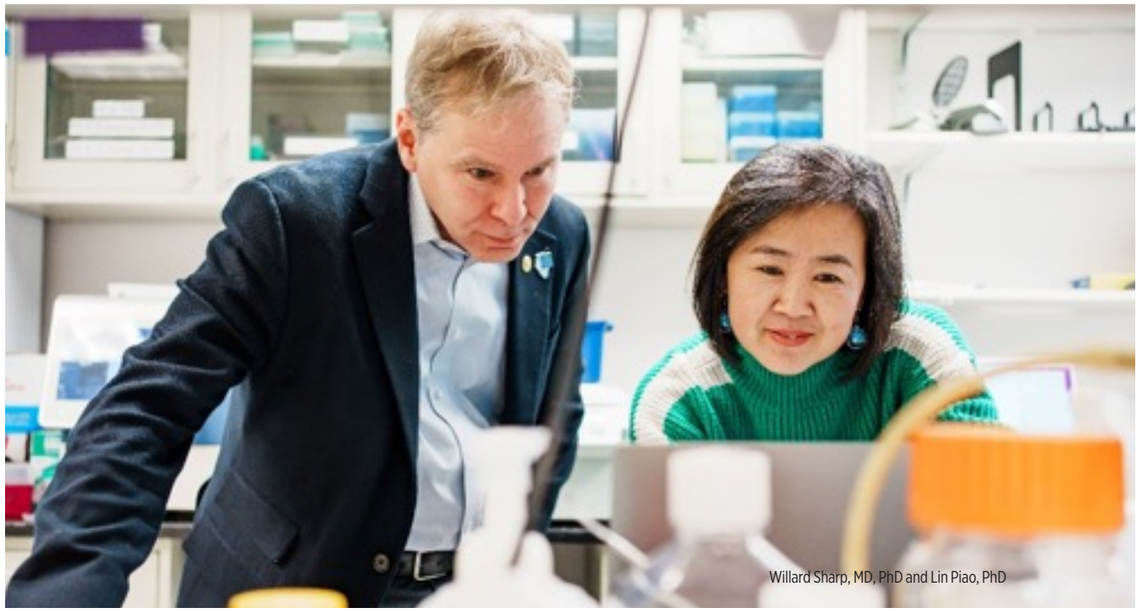
Katie Tataris, MD, MPH

"We have brought the full weight of our Section to Crown Point," says Kurz. "We're all in." Crown Point patients also have access to infusion therapy, radiation and med/surg oncology, imaging, an ambulatory surgery center, a lab and multiple subspecialists.

EMS Response Program Expands Treatment Capabilities

When patients need pre-hospital emergency medical care for large incidents such as a motor vehicle accident or train crash, Section EMS physicians can ride with paramedics as a team. That will change in the near future, as UChicago obtained a designated vehicle to enhance the EMS physicians' ability to respond with more advanced equipment and greater services.

The program will allow UChicago EMS physicians to bring a higher level of medical care to that



Willard Sharp, MD, PhD and Lin Piao, PhD

environment, says Kate Tataris, MD, MPH, EMS Medical Director for the Chicago South EMS System. This EMS physician response program is a new initiative in Chicago, and has been in the works for a decade.

In addition to providing emergency care, "our other goal is to be part of the community we serve, supporting the hospital extension to the community," Tataris says.

Research growth

Teamwork and collaboration helped Willard Sharp, MD, PhD and Alfredo Garcia, PhD receive two R01 grants within 6 months. Sharp's cardiac cell biology and EM background combined with Garcia's neurobiology expertise are helping them innovate new approaches in investigating mechanisms of ischemia-reperfusion injury and new clinical interventions in the acute setting.

The first R01 focuses on optimizing oxygen delivery to patients following cardiac arrest (CA). There is growing evidence that following CA, patients have less oxygen tolerance. Sharp says that contrary to conventional wisdom, the team's work suggests that much of the multiorgan injury occurs after, rather than during CA. This post-arrest injury is progressive, creating an opportunity to mitigate the damage by modifying the oxygen amount given in recovery, potentially improving outcomes. Sharp hypothesizes that mitochondria processing oxygen are injured following CA and can no longer process oxygen, resulting in progressive oxygen toxicity. They are investigating strategies to mitigate this injury including lowering oxygen to extremely low levels, and testing pharmacological strategies to repair mitochondria.

The second R01 focuses on opioid overdose-induced CA caused by respiratory problems. This basic animal research will compare differences between opioid induced and other forms of CA. This is important as all forms of CA are currently treated the same by physicians, despite clear underlying pathology differences. Based on study results, the team hopes to develop specific post-CA treatments for opioid overdose.

Teamwork and collaboration between lab members and multi-specialty UChicago faculty have made this work possible, Sharp says. "The science itself is exciting, but outside of that, it's the team spirit and being collaborative, with a team of people who are inquisitive and willing to work together."

New Faculty

As part of the EM growth, the Section welcomed Professor Marina Del Rios, MD, MS, who joined UChicago in November. The physician-scientist's voluminous work is internationally recognized, describing disparities in cardiac arrest care and outcomes. Del Rios currently serves the American Heart Association as Chair of the Science Subcommittee of the Emergency Cardiovascular Care Committee, responsible for multiple guidelines and scientific statements used daily to direct and provide emergency cardiovascular care.

Marina Del Rios, MD, MS

EMERGENCY MEDICINE

SECTION CHIEF

Michael Kurz, MD, MS

NEW FACULTY

Dhara Amin, MD

GRADUATED THE 50TH CLASS OF EM RESIDENTS

40TH ANNIVERSARY OF UCAN

EXPANDED ONLY EMS FELLOWSHIP IN IL TO 2 FELLOWS

69,752 EMERGENCY ROOM ENCOUNTERS

EMERGENCY ACTION PLAN TRAINING FOR WNBA CHICAGO SKY

PROMOTIONS

Keme Carter, MD (Professor)
Kimberly Stanford, MD, MPH (Associate Professor)

STAFFED THE NASCAR CHICAGO STREET RACE

$3.3M TOTAL COST GRANT FUNDING

$28K CLINICAL TRIALS EARNINGS

41 PUBLICATIONS

FACULTY

Professors
David Beiser, MD
Ira Blumen, MD
Keme Carter, MD
Marina Del Rios, MD, MSc+
Teresita Hogan, MD*
Michael Kurz, MD, MS (Chief)
Ying-Jie Peng, PhD
Nanduri Prabhakar, PhD
James Walter, MD

Associate Professors
James Ahn, MD
Christine Babcock, MD
Keegan Checkett, MD
Navneet Cheema, MD
Dayle Davenport, MD
Alfredo Garcia, PhD
Willard Sharp, MD, PhD
Thomas Spiegel, MD, MBA, MS
Kimberly Stanford, MD, MPH
Katie Tataris, MD, MPH

Assistant Professors
Dhara Amin, MD, MA
Daniel Bickley, MD, MBA
Mark Chottiner, MD
Bernice Fokum, MD+
Lauren Friend, MD+
Ameera Haamid, MD
Christopher Harris, MD
Paul Kukulski, MD
Nicholas Ludmer, MD
Isabel Malone, MD
Michael McCartin, MD
Adriana Olson, MD, MAEd
Nathan Olson, MD, MAEd
Alejandro Palma, MD
Abdullah Pratt, MD

Clinical Associates
Anjali Ahn, MD
Thomas Bebekoski, MD
Diane Chaney, MD
Thomas Fisher, MD, MPH
Vishal Gupta, MD
David Harter, MD
Alyssa Ierardo, MD
Adam Kessler, DO+
Julianne Kjolhede, DO
Michael McGee, MD, MPH
Mathew Saab, MD, MPH
Sambhav Shah, MD
Joshua Sherman, MD
Michelle Suh, MD

Section Administrator
Brad Lane

+New FY25 Faculty
*Research Track Faculty

Kovler Diabetes Center Team from left to right: Anna Ricardi; Kaylee Oppenheimer; Demetra Reyes; Elizabeth Murphy, MS, RDN, LDN, CDCES; Taylor Mossing, LCSW; Louis Philipson, James C Tyree Professor of Diabetes Research & Care, Director, Kovler Diabetes Center; Emily Mixter; Balamurugan Kandasamy, PhD; Ava Jerred

$50 MILLION RADIANT STUDY SEEKS ANSWERS ABOUT ATYPICAL DIABETES

Almost 12% of people in the U.S. have some form of diabetes. While there are two main types of diabetes, type 1 and type 2, approximately 5-11% of all individuals with diabetes have an atypical form, not clearly fitting into either type. "Diabetes is the leading cause of morbidity and mortality—heart disease, kidney disease, blindness, amputations," says Lou Philipson, MD, PhD, director of the Kovler Diabetes Center.

Trying to better understand the many types of diabetes led Philipson, and others at The University of Chicago and their partner institutions, to dive into a $50 million multi-center research study. Sponsored by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) since 2018, RADIANT (Rare and Atypical Diabetes Network) is collecting data from and identifying unusual forms of diabetes.

Atypical forms of diabetes can have different symptoms and cause different health issues than type 1 and type 2 diabetes. They may also require different treatment approaches, something researchers want to learn more about. RADIANT researchers are trying to understand family histories, pathways, genes, and cellular processes that are involved. "It's been an interesting experience to try to pick out what is not typical without being able to define what exactly is typical," Philipson says.

As principal investigator, Philipson is working alongside University of Chicago co-investigators Siri Greeley, MD, PhD and Rochelle Naylor, MD, and research director Lisa Letourneau-Freiberg, MPH, RD. The University team collaborates closely with co-sponsors Massachusetts General Hospital, Baylor College of Medicine, and the University of South Florida, with 14 clinical research sites participating nationally.

The study process

Since enrollment opened in 2020, sites have screened almost 2,000 participants, sometimes ruling out known diabetes types. Researchers review patient histories and blood tests, subsequently offering whole genome sequencing and a battery of tests and examinations to those with atypical results.

The study has helped patients learn helpful information about their condition. "Many participants have been grateful for the opportunity to have someone look at their case and see if there's something we can learn that would be helpful to their care providers," says Letourneau-Freiberg. Even those screened who don't ultimately qualify for RADIANT will receive their testing results.

This validation is important for patients, says Philipson, as doctors can't always properly diagnose the type of diabetes. And with little information available about atypical diabetes, most patients with these rare forms remain undiagnosed or misdiagnosed and therefore do not receive proper treatment.

Where RADIANT may lead

There are dozens of diabetes types with various causes. "Eventually, we hope to learn more about what causes type 2 diabetes by learning about unique and rare forms and pathways," Philipson says. The RADIANT research is pure discovery, not interventional.

In addition to study staff, special interest groups are focused on specific pathways or genes of interest. RADIANT, funded until May 2029, has already resulted in six papers plus meeting presentations. The study is also building a biorepository for future researchers to use, says Letourneau-Freiberg.

"The work from RADIANT will go a long way to making sure there's a specific way of classifying diabetes in the clinic—how we get from esoteric genome sequencing and other things we're doing, to a practical approach," Philipson says, ultimately leading to proper therapies.

The RADIANT Study is funded by U54 DK118638 and U54 DK118612 from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

ADULT AND PEDIATRIC ENDOCRINOLOGY, DIABETES AND METABOLISM

SECTION CHIEF

Ronald Cohen, MD

NEW FACULTY

Sara Abdelaziz, MD
Brian Kim, MD

PROMOTIONS

Ronald Cohen, MD (Professor)

$12.6M
TOTAL COST GRANT FUNDING

$267K
CLINICAL TRIALS EARNINGS

57 PUBLICATIONS

NEWSWEEK #37
2024 WORLD'S BEST SPECIALIZED HOSPITALS

22,405 OUTPATIENT VISITS

FACULTY

Professors
Ronald Cohen, MD (Chief)
Graeme Bell, PhD
Murray Favus, MD**
Manami Hara, PhD*
Raghavendra Mirmira, MD, PhD
Louis Philipson, MD, PhD
Kenneth Polonsky, MD
Samuel Refetoff, MD**
Christopher Rhodes, PhD**
Robert Rosenfield, MD**
Sarah Tersey, PhD*
Eve Van Cauter, PhD**
Tamara Vokes, MD
Roy Weiss, MD, PhD**

Associate Professors
Matthew Brady, PhD
Dianne Deplewski, MD
Alexandra Dumitrescu, MD, PhD
Siri Greeley, MD, PhD
Erin Hanlon, PhD*
Brian Kim, MD
Rochelle Naylor, MD
Silvana Pannain, MD
Susan Sam, MD, MS
Celeste Thomas, MD

Assistant Professors
Ryan Anderson, PhD*
Sara Abdelaziz, MD
Laura Dickens, MD
Margo Emont, PhD+
Rajesh Jain, MD
Michelle Lemelman, MD
Katie Lynn O'Sullivan, MD

Clinical Associates
Renee Aronsohn, MD
Leanne Duge, MD
Farah Hasan, MD
David Sarne, MD

Instructor
Matthew Ettleson, MD

Section Administrator
Ann Leu

+New FY25 Faculty
**Emeritus Faculty
*Research Track Faculty


Noa Krugliak Cleveland, MD

HOW INTESTINAL ULTRASOUND IS HELPING IBD PATIENTS

The inflammatory bowel diseases (IBD) are chronic immune mediated intestinal conditions that are frequently characterized by abdominal pain, diarrhea, bleeding, and a variety of extra-intestinal manifestations involving the skin and joints. The diagnosis and assessment of the IBDs requires colonoscopic examinations with biopsies, exams that are invasive, can be uncomfortable, and require cathartic preparation. However, University of Chicago Medicine gastroenterologist Noa Krugliak Cleveland, MD has disrupted this approach for many patients by bringing intestinal ultrasound (IUS) to The University of Chicago and leading the U.S. in its dissemination and utility.

IUS is a point-of-care test used during patient visits as part of the disease assessment for someone with IBD. Krugliak Cleveland says that with IUS, she can assess the patient's disease activity and determine a treatment plan during the visit. The technology gives off no radiation, the patient doesn't need any study prep, and it's not painful either. "With IUS, we can monitor patients closely and react more quickly, which ultimately leads to better disease outcomes," she says.

She finds it helpful to assess disease activity, as it's accurate and sensitive for inflammation. The quality of results is similar to invasive endoscopy procedures, but IUS can often provide more information such as in cases of fibrostenotic or penetrating disease complications. This is not always possible to see on colonoscopies or endoscopies.

Personalizing treatment

Krugliak Cleveland also uses IUS to assess and predict treatment response. Based on studies in patients with acute severe ulcerative colitis, she has been able to utilize IUS even a few days into treatment to predict response to therapy. IUS makes it possible to predict remission—information not previously available. IUS allows clinicians like Krugliak Cleveland to personalize and optimize treatment to more quickly manage patients' inflammation and symptoms.

"Patients tell me that they have never felt more informed, as they are never awake while endoscopy is performed" she says. "I've received messages from patients saying it's life-changing, because they have undergone many colonoscopies and other uncomfortable radiologic scans. They have to drink contrast, and travel, waiting for results. It is truly life-changing for patients when they don't have to undergo all this hassle and they receive real-time results and treatment plan."

Building the program

IUS gained popularity in Europe but was slow to gain steam in the United States. Krugliak Cleveland established and leads the University's Intestinal Ultrasound Program with help from a generous philanthropic gift from the Mutchnik Family Foundation. She and Section Chief David Rubin, MD secured a large grant from The Leona M. and Harry B. Helmsley Charitable Trust. The grant enabled Krugliak Cleveland to lead hands-on training for over 100 gastroenterologists in the U.S. and to establish the Intestinal Ultrasound Group for the United States and Canada (iUSCAN).

UChicago now has six trained gastroenterologists and the first APP in the country who can offer this unique tool to our patients. Under Krugliak Cleveland's leadership, the University of Chicago Medicine Inflammatory Bowel Disease Center is the only Midwest center to offer IUS, and one of only a few in the country. It is one more way that the University and the Section of Gastroenterology, Hepatology, and Nutrition bring cutting-edge innovation to patient-centered care.
"There has been tremendous interest in intestinal ultrasound," Krugliak Cleveland says. "The modality is not only accurate, but cost-effective. It's a real game changer."

GASTROENTEROLOGY, HEPATOLOGY & NUTRITION

SECTION CHIEF


David Rubin, MD

NEWSWEEK #20
2024 WORLD'S BEST SPECIALIZED HOSPITALS

EXCEPTIONAL WOMEN IN MEDICINE

Sonia Kupfer, MD (Professor)
Anjana Pillai, MD (Professor)
K. Gautham Reddy, MD (Professor)
Sushila Dala, MD (Associate Professor)

CHICAGO MAGAZINE
TOP DOCTORS

Russell Cohen, MD
K. Gautham Reddy, MD
Maru Rinella, MD
David Rubin, MD
Carol Semrad, MD
Uzma Siddiqui, MD
Helen Te, MD

29,255 OUTPATIENT VISITS
12,618 PROCEDURES

NEW PROMOTIONS

Sonia Kupfer, MD (Professor)
Anjana Pillai, MD (Professor)
K. Gautham Reddy, MD (Professor)
Sushila Dala, MD (Associate Professor)

$11.0M
TOTAL COST GRANT FUNDING

$399K CLINICAL TRIAL EARNINGS

166 PUBLICATIONS

FACULTY

Professors
David T. Rubin, MD (Chief)
Eugene B. Chang, MD
Russell Cohen, MD
Bana Jabri, MD, PhD
Sonia Kupfer, MD
Anjana Pillai, MD
Kapuluru Gautham Reddy, MD
Maru Rinella, MD
Carol Semrad, MD
Uzma Siddiqui, MD
Helen Te, MD

Associate Professors
Valerie Abadie, PhD*
Andrew Aronsohn, MD
Marc Bissonnette, MD
Sushila Dalal, MD
Robert Kavitt, MD
Yanchun Li, PhD
Sonali Paul, MD
Joel Pekow, MD
Neil Sengupta, MD

Assistant Professors
Dennis Chen, MD
Alice Cheng, MD, PhD
Tenzin Choden, MD
Bradford Chong, MD
Noa Krugliak Cleveland, MD
Christopher Kasia, MD+
Cambrian Liu, PhD*
Edwin McDonald IV, MD
Eric Montminy, MD
Matthew Odenwald, MD, PhD
Lalitha Sitaraman, MD

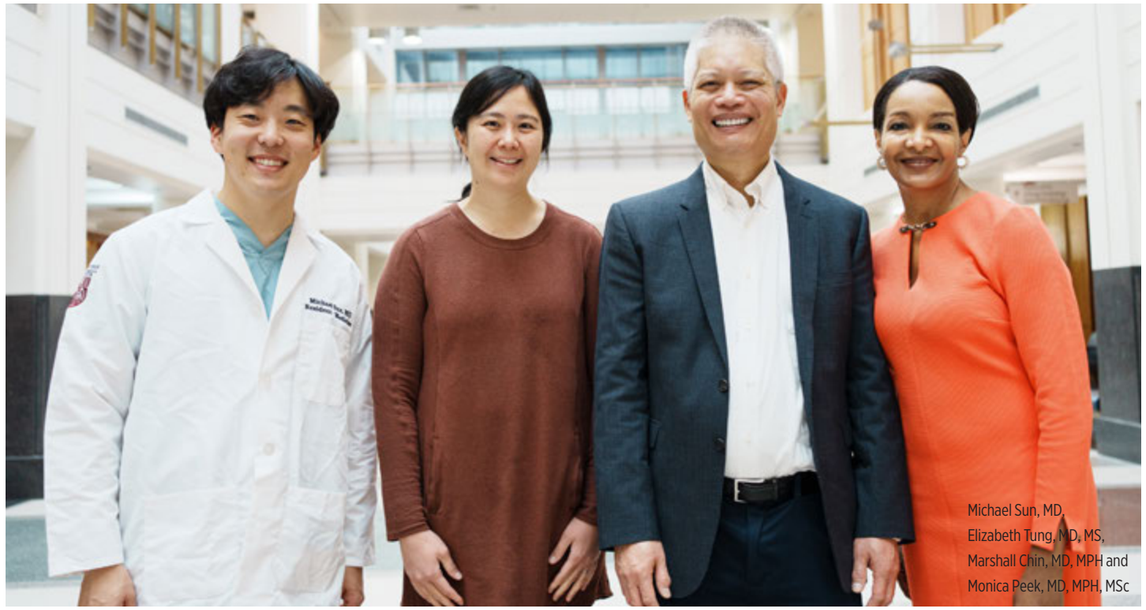
Instructor
Benjamin McDonald, MD, PhD+

Clinical Associates
JNina Gupta, MD
Ariel Halper-Stromberg, MD, PhD
Shilpa Kailas, MD
Benjamin Levy, MD
Nikunj Shah, MD

Section Administrator
Jimmy Jung

+FY25 New Faculty
*Research Track Faculty

THE MAGIC OF MULTIGENERATIONAL MENTORSHIP



Michael Sun, MD, Elizabeth Tung, MD, MS, Marshall Chin, MD, MPH and Monica Peek, MD, MPH, MSc

When Michael Sun, MD was a Pritzker student in 2021, his research on electronic medical records, using natural language processing to count the discriminatory language used with people of color, led to a viral first author paper in Health Affairs. That attention and early success might have made some senior faculty jealous, but not Sun's mentors. Having already helped Sun build his research skills, mentor Elizabeth Tung, MD, MS and her mentor, Monica Peek, MD, MPH, MSc then coached him for interviews and on interacting with other professionals in the space, he says. "They were willing to take an interest in me as a person and develop me as a doctor and a researcher. That speaks to the culture as a whole," Sun says.

Tung's talk in his first-year healthcare disparities class, along with a study that Peek co-authored made him realize that his project idea was possible; their mentorship during the process helped him complete the research and subsequent publication, Sun says.

Peek adds, "It was a super successful paper people are still citing, one of the most important papers in that space."

A mentorship culture

The mentorship played a big role in Sun's decision to stay on as a resident, not surprising since multigenerational mentorship is a conscious part of how the Section of General Internal Medicine operates.

When Marshall Chin, MD, MPH first came to The University of Chicago in 1994, clinical health services research, especially with an emphasis on health equity, was new to the University. "There weren't senior people to provide mentorship," he says. His cohort included a handful of assistant professors hired at the same time, and they mentored each other. In 2005, he and other section leaders recruited Peek and others to the University, creating a more structured mentorship system. It takes time to develop a recruitment strategy, then develop personnel, a mentorship culture and infrastructure. The section now has multiple groupings of mentorships spanning three to four generations.

"A good robust department has a mix of folks from the outside, while attracting, training and retaining the best trainees," Chin says.

Developing the mentorship culture means finding people who are committed to that mentorship process. "It's part of their calling," says Peek. She credits Chin as the reason she came to the University. "I owe my career to him being willing to take me under his wing." The mentorships work in the section because faculty members are committed to investing in the generation behind them, helping them flourish and grow.

This culture shines through, even to outsiders. When Tung interviewed for fellowships, prior to coming to the The University of Chicago in 2014, she thought the institution stood out as the most mission-forward place she interviewed. "There is a passion, a driven sense of advancing the field. And to be so academically rigorous in this field is rare and important too," she says. "In the same way Monica came to the University to work with Marshall, I came to the University to work with Monica."

While this four-generation mentorship relationship seems unique, it's common in the section, says Peek. "There are a lot of situations where people have multiple mentors from other sections or in different generations," she says. "There's an eagerness to bring trainees in and to collaborate with one another."

The section is very good at enlarging the pie and elevating others, Chin adds.

GENERAL MEDICINE

SECTION CHIEF

Deborah Burnet, MD, MAPP

NEW PROMOTIONS

Wei Wei Lee, MD, MPH (Professor)
Jason Alexander, MD, (Associate Professor)
Jennifer Rusiecki, MD, MS (Associate Professor)
George Weyer, MD (Associate Professor)

113 PUBLICATIONS

CHICAGO MAGAZINE TOP DOCTORS

Deborah Burnet, MD, MAPP; Adam Cifu, MD; Kamala Cotts, MD; Mindy Schwartz, MD

MOST CASTLE CONNOLLY TOP DOCTORS IN GENERAL MEDICINE - #4 HOSPITAL IN IL

NEW FACULTY

Nathaniel Glasser, MD; Allie Dakroub, MD, MS

$19.2M TOTAL COST GRANT FUNDING

CASTLE CONNOLLY'S EXCEPTIONAL WOMEN IN MEDICINE

Deborah Burnet, MD, MAPP; Kamala Cotts, MD; Mindy Schwartz, MD

52,613 OUTPATIENT VISITS

FACULTY

Professor
Deborah Burnet, MD, MAPP (Chief)
Vineet Arora, MD, MAPP
Marshall Chin, MD, MPH
Adam Cifu, MD
Andrew Davis, MD, MPH
Elbert Huang, MD, MPH
Wei Wei Lee, MD, MPH
Doriane Miller, MD
Julie Oyler, MD
Monica Peek, MD, MPH, MSc
Amber Pincavage, MD
Valerie Press, MD, MPH
Mindy Schwartz, MD
Lisa Vinci, MD, MS
James Woodruff, MD

Associate Professor
Nabil Abou Baker, MD
Jason Alexander, MD
Irsk Anderson, MD
Mim Ari, MD
Arshiya Baig, MD, MPH
Dionne Blackman, MD
Kamala Cotts, MD
Neda Laiteerapong, MD, MS
Jennifer Rusiecki, MD, MS
Milda Saunders, MD, MPH
Sachin Shah, MD
Anna Volerman, MD
Wen Wan, PhD*
George Weyer, MD

Assistant Professor
Allie Dakroub, MD, MS
Rasika Karnik, MD
Claudia Leung, MD+
Hannah Matthews, MD+
Rebeca Ortiz Worthington, MD, MS
Harita Shah, MD
Todd Stern, MD
Elizabeth Tung, MD, MS

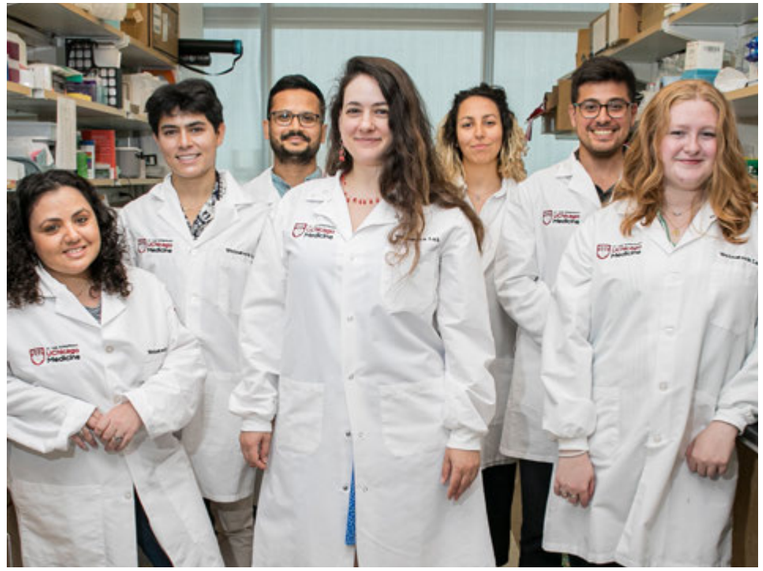
Instructors
Nathaniel Glasser, MD, MAPP
Jennifer Hwang, DO+

Clinical Associates
Joseph Asbury, MD
Lina Khamis, MD, MBA
Susan Nasr, MD, MA
Stephanie Weaver, MD

Administrator
Cindy Kitching

+FY25 New Faculty
*Research Track

HUMAN TISSUE ADVANCES GENETIC MEDICINE RESEARCH



Top: Rotem Kalev-Altman, PhD; Hunter Bershtein; Aleepta Guha Ray, PhD; Ada Weinstock, PhD; Lourdes Caceres, PhD; Wenceslao Martinez-Navarrete; Riley Hamilton
Bottom: Roshni Roy-Chowdhury, PhD

Many human tissues are not easy to come by in research. But for two investigators in the Section of Genetic Medicine, this valuable resource can help unlock questions that can provide not only new disease understanding, but potential treatments as well.

Given her family's history, Ada Weinstock, PhD had an early interest in studying obesity. The assistant professor, on faculty at the The University of Chicago since 2022, studies how weight loss is beneficial in resolving obesity-related diseases like atherosclerosis, and how regaining weight or yo-yo dieting affects inflammation.

To study this, Weinstock is researching a new immune cell subtype important in resolving heart disease. Her research shows that these cells accumulate in visceral fat of mice that are losing weight. She wants to understand whether these cells exist in humans and operate in the same way.

Collaborate with colleagues

The University's collegial environment bolsters her work. "Most of the doctors in the University are very interested in research," she says. "They help conceptualize studies and elevate the research by providing knowledge and resources we had no idea existed."

For a human version of her mouse study, Weinstock needs visceral fat tissue samples from patients losing weight. Bariatric surgery is typically performed in one step, making it impossible to get follow-up samples after weight loss. A surgical colleague told her about their duodenal switch procedure: two surgeries a year apart. Weinstock can now obtain samples before both surgeries, one pre- and another post-weight loss.

The ultimate goal is to develop a therapeutic using these cells to help treat diseases like atherosclerosis.

Human tissue helps investigate ulcerative colitis causes

One thing that drew Roshni Roy Chowdhury, PhD to the University in 2021 was the streamlined process to acquire human tissue for research. Elsewhere it can be difficult to find and ask individual doctors to collect specimens; at the University, all surgeons send specimens to a centralized tissue resource center after surgery. Pathology staff reviews tissues, alerting researchers to any matches. Chowdhury exclusively works on human immunology, so this ease and access is a game-changer.

Chowdhury researches inflammatory bowel disease (IBD)—specifically, ulcerative colitis. She also studies the appendix, which drives B cell and T cell responses, potentially leading to these diseases.

Research shows that after appendix removal, people are unlikely to develop ulcerative colitis. Chowdhury has found that the appendix is a unique source of pathogenic T cells that fuels inflammation in the colon. The rare people who develop ulcerative colitis despite prior appendectomy don't have these pathogenic T cells. "They have a completely different disease mechanism," she says.

Her end goal is potentially treating ulcerative colitis with tissue- or site-directed therapies, instead of removing the entire colon. It may be possible to stop the cells that originate in the appendix from migrating to the colon and driving pathology. "We have interesting data that we think will shift the paradigm a little bit and make us think about IBD from a different angle. Hopefully we can make an impact," she says.

GENETIC MEDICINE

SECTION CHIEF

Yoav Gilad, PhD

NEW LABS

WANG LAB – Jingxin Wang's research focuses on the development of new bioactive molecules to investigate human disease states, along with exploring novel methods and platforms for drug mechanistic studies. Specifically, he aims to develop new molecules and pharmacological mechanisms to control RNA splicing and novel chimeric molecules that introduce RNA degradation.

LIN LAB – Hening Lin has pioneered the use of innovative chemical tools and chemical insights to study and manipulate protein function with a high degree of precision. His research has led to a deeper understanding of enzyme mechanisms, protein modifications, and cellular signaling pathways. Much of his work has focused on unraveling the complex world of protein post-translational modifications (PTMs), with his groundbreaking studies shedding light on the molecular mechanisms underlying PTMs and their impact on cellular processes.

NEW PROMOTIONS

Anindita Basu, PhD (Associate Professor)
Hae Kyung Im, PhD (Associate Professor)
Yang Li, PhD (Associate Professor)

38 PUBLICATIONS

NEW FACULTY

Yuval Simons, PhD
Jingxin Wang, PhD

$11.9M

TOTAL COST GRANT FUNDING

FACULTY

Professors
Luis Barreiro, PhD
Yoav Gilad, PhD (Chief)
Hening Lin, PhD*

Associate Professors
Anindita Basu, PhD
Ran Blekhman, PhD
Mengjie Chen, PhD
Hae Kyung Im, PhD
Yang Li, PhD

Assistant Professors
Andrew Dahl, PhD
Xuanyao Liu, PhD
Sebastian Pott, PhD
Roshni Roy Chowdhury, PhD
Yuval Simons, PhD
Jingxin Wang, PhD
Joshua Weinstein, PhD
Ada Weinstock, PhD

Administrator
Ann Leu

*FY25 New Faculty

UNIVERSITY LEADS AGE-FRIENDLY HEALTH SYSTEM INITIATIVES

Katherine Thompson, MD; Megan Huisingh-Scheetz, MD, MPH; Lauren Gleason, MD, MPH; Monica Malec, MD and Tia Kostas, MD

The University of Chicago's South Shore Senior Center gained the Committed to Care Excellence recognition as an Age-Friendly Health System in 2020. While the center staff members were proud to have earned this highest-level certification from the Institute for Healthcare Improvement (IHI), this was just a starting point, since older adults are seen in other settings too.

The recognition provided energy and motivation for the The University of Chicago to work towards becoming an Age-Friendly Health System, an initiative involving multiple Geriatrics Section stakeholders plus other sections. This is an initiative of the John A. Hartford Foundation and the IHI, in partnership with the American Hospital Association and the Catholic Health Association of the United States. The initiative uses a 4M model to determine the most reliable practices of evidence-based interventions for older adults: mentation, medication, mobility, and what matters, and they recognize organizations through two levels—Participant or Committed to Care Excellence.

Kate Thompson, MD is overseeing the project through the Geriatric Workforce Enhancement Program (GWEP), and Lauren Jan Gleason, MD, MPH is spearheading the system-wide collaboration not only to meet this goal, but to better serve patients. Here are some of the initiatives.

Mentation: Gleason, Medical Director of Post-Acute Care Continuum, helped to introduce delirium screenings on the medical-surgical floors. This year, the Geriatrics Section led the development of the Hospital Elder Life Program (HELP), a partnership between nursing, volunteer services, geriatrics and hospital administration. Trained volunteers visit with patients over age 60 who do not have delirium, on the med-surg floor. They engage through therapeutic activities, reminiscing, music, feeding assistance and other methods to keep patients mentally active and present. "It goes a long way for people sitting in their beds all day," Gleason says, providing vital and extended one-on-one contact. This can prevent delirium, a condition that increases the length of stay, along with morbidity and mortality.

Medication: Many medications are high risk for older adults. While digital tools can help clinicians with medications to avoid, pop-up warnings are so prevalent that they can easily be dismissed given alert fatigue. Tia Kostas, MD worked with the pharmacy team to implement geriatric-guided prescribing for UChicago Medicine inpatients, making it easier to order the right (i.e. usually lower) dose of medications for older adults. In two pilot studies, they chose the most commonly prescribed high-risk medications, modifying the order entry screen to make the lower dose options easiest to choose. "If you want to order a higher dose, you must make the effort to type it in," says Kostas, the Medical Director of the South Shore Senior Center. The result? Prescribing habits changed to become safer.

Mobility: UChicago is also improving its hospital frailty and cognitive screenings. "We're working on having a more seamless transition of older adults throughout the healthcare continuum: inpatient, outpatient, nursing home and home-based primary care," Gleason says. While the South Shore Senior Center has always had a frailty clinic, it's expanding to DCAM (Duchossois Center for Advanced Medicine.

The SAFE (Successful Aging and Frailty Evaluation) Clinic offers an outpatient geriatric consult pathway, with standardized comprehensive geriatric assessments across SAFE providers. The SOCARE (Specialized Oncology Care and Research for the Elderly) Clinic offers a standardized comprehensive geriatric assessment tailored to cancer care. Every referred patient received an evidence-based assessment of physical function, frailty and cognition, among other domains in both clinics. The section built and expanded electronic medical record (EMR) tools to collect and store key physical function, frailty and cognition measures so it can be trended and accessed uniformly by all providers. In addition, specialists in multiple sections are using the tools, including oncology, transplant clinics, anesthesia, thoracic surgery and the burn unit, to screen for frailty, says geriatrician Megan Huisingh-Scheetz, MD, MPH. The screening helps identify individuals who might benefit from a formal referral to a geriatrics consult service.

What matters: Understanding patients' goals and wishes fall under "what matters." Advanced care planning is another area where EMR tools have been developed over previous years, along with educating clinicians on their use. Recently, though, there's a push to ensure that all older adults coming to UChicago are asked these questions, whether inpatient or outpatient, says Monica Malec, MD, Director, Palliative Medicine Clinical Programs. "We're looking to broaden the conversations beyond people who have serious illness, to all older adults."

Through the SHARE Network (Healthy Aging Resources & Education), the University is bringing Age-Friendly Health System transformation to providers throughout Illinois. That includes supporting partner institutions such as Oak Street Health and ACCESS Health, says Thompson, the SHARE Network's Program Director. "We help them understand that Age-Friendly care is a priority and provide tools and advice on how to make changes in clinical practice and the EMR to track important things around the 4Ms," she says.

UChicago will be providing the required data to earn the Participant certification, with plans to move to the Committed to Excellence level after. "Geriatrics is a small section, but it's the partnerships that we develop and the relationship that are crucial to all of this," says Gleason. "The whole health system is working together."

GERIATRICS & PALLIATIVE MEDICINE

SECTION CHIEF

Stacie Levine, MD

PROMOTIONS

Katherine Thompson, MD (Professor)
Lauren Gleason, MD, MPH (Associate Professor)

$1.4M
TOTAL COST GRANT FUNDING

CASTLE CONNOLLY'S EXCEPTIONAL WOMEN IN MEDICINE

Stacie Levine, MD & Monica Malec, MD

CHICAGO MAGAZINE TOP DOCTORS

Stacie Levine, MD & Monica Malec, MD

U.S. NEWS & WORLD REPORT BEST HOSPITALS – GERIATRICS RANKED #40

8,938 OUTPATIENT VISITS

FACULTY

Professors
Stacie Levine, MD (Chief)
Katherine Thompson, MD

Associate Professors
Lauren Gleason, MD
Megan Huisingh-Scheetz, MD, MPH
Tia Kostas, MD
Heather Leeper, MD, MSc
Monica Malec, MD
Shellie Williams, MD

Assistant Professors
Thomas Haferkamp, MD+
Vasyl Hereha, MD
Samantha Ing, MD+
Changgi Jung, MD+
A. Justine Landi, MD
Margaret Putman, DO+

Clinical Associates
Amna Buttar, MD
Melissa Marinelli, MD
Isabel Polsky, MD
Charles Rhee, MD, MS

Administrator
Brad Lane

+FY25 New Faculty

HEMATOLOGY/ONCOLOGY RESEARCH: FROM QUANTUM COMPUTING TO BREAST CANCER TRIALS

Rita Nanda, MD

The Section of Hematology/Oncology is deep in research. A common theme? Collaboration, not just across the University but internationally. Research subjects and phases also run the gamut. Here's a taste of what's happening in the section's research world.

Chicago Breast Cancer Research Consortium

To promote health equity and reduce bias, it is important to have a diverse group of participants in clinical trials, including those from different racial and ethnic groups.

UChicago has the city's most robust portfolio of clinical trials for breast cancer, but participation is not always possible for those living further away, particularly those of limited financial means, says Rita Nanda, MD, director of the Breast Oncology Program. Neighboring institutions frequently send patients to UChicago for trials, but some can't travel for them. Nanda spearheaded the Chicago Breast Cancer Research Consortium (CBCRC) with the specific goal of reducing local disparities in breast cancer outcomes through enhanced clinical trial access. Nanda launched this initiative with colleagues at Northwestern University and RUSH MD Anderson Cancer Center.

"The idea is to work with other centers in the Chicagoland area to enhance our ability to enroll to investigator-initiated trials," Nanda says. The CBCRC is funded by a 5-year $1.8 million grant to Nanda from The Lynn Sage Breast Cancer Foundation, including a fund to help patients with additional clinical trial participation expenses, including transportation, parking and childcare costs. Nanda tapped UChicago's Nan Chen, MD as the CBCRC's chief operating officer. Physicians across all three sites will work with pharmaceutical partners to bring innovative new treatments to breast cancer patients across Chicago. This will allow patients to receive leading edge care without having to change treatment centers and providers. CBCRC initiated one trial in 2024; several more are in the works. Once the consortium is established, they hope to include additional Chicagoland medical centers.

Michael Bishop, MD

Individualized cellular therapy for pancreatic cancer

Michael Bishop, MD envisions a future where every newly diagnosed patient with progressive pancreatic disease finishes their upfront therapy with a customized vaccine waiting. Even better, the vaccine is incorporated in the upfront therapy. While the vaccine is not a novel concept, Bishop and his UChicago collaborators are determining how to select the best T cell receptor combination.

His team is a step closer to making this reality. In 2024, the David and Etta Jonas Center for Cellular Therapy at The University of Chicago, where he is director, received a $500,000 anonymous grant through the White Sox Charities for pancreatic cancer translational research. "The need for better therapies in pancreatic cancers is astronomical," he says.

The grant will be used for this preclinical and multifaceted vaccine project. Researchers will identify neoantigens from the patient's tumor, used to develop T cell receptors to genetically modify the patient's T cells. These will be returned to the patient to enhance their immune response and duration. "This is a highly complex form of therapy – the most personalized form of cellular immunotherapy we're aware of. Every patient is their own source of antigens and T cell receptors. Theoretically every patient should be able to be treated," Bishop says.

This cross-campus collaboration should have an international impact. "I've never worked with a group of scientists who are so critical to the details, yet feel this is scientifically sound. That's why I think we're going to be successful."

Alexander Pearson, MD, PhD

Quantum computing for oncology

While quantum computing does not currently exist at scale, Alexander Pearson, MD, PhD expects it to in the next decade. "Our team has been working to anticipate the arrival of suitable quantum processors — modern computers large enough to mount useful human data and apply quantum computing-based algorithms to them," Pearson says. Quantum computing will likely uncover novel biological connections that are impossible to find with existing computing constraints.

Quantum computing will be used to help design new drugs. It can also help with multiple orders of interaction — a gene interacting with a gene expression interacting with a pathology signature, for example. "When those interactions are at play, like we think they are with multimodal cancer data, the computational resources of a classical approach might exceed the computational resources required to find a solution with a quantum approach," he says.

Pearson and a UChicago consortium are already working to better understand and process complex cancer data. "We built out some specific multimodal data sets for an interaction process we thought might lend itself to a quantum computing approach," he says. They are conducting studies

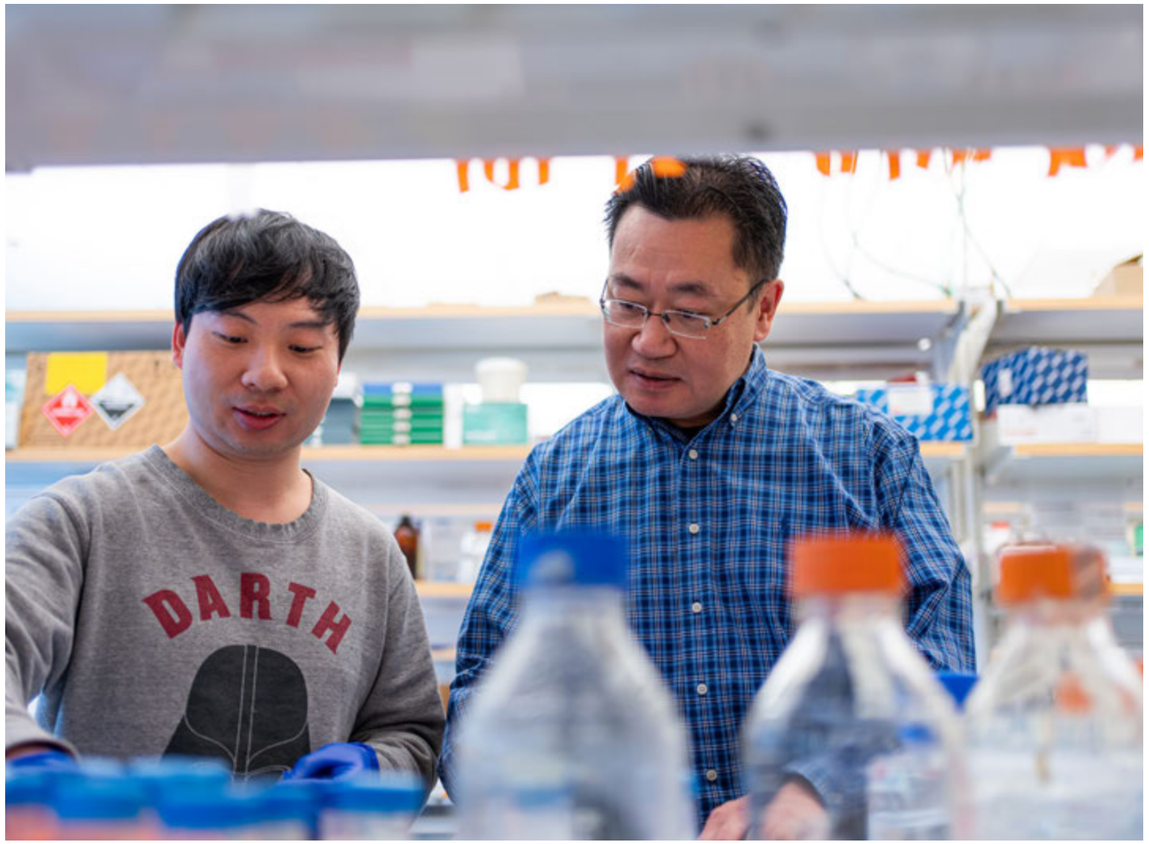
to understand how close they were and what constraints they would need for quantum computing to be advantageous for cancer data — mutation, gene expression and digital pathology AI-based features. "We're getting very close to a context where the quantum approach will achieve superiority in finding a limited subset of features which explain most variations within a cancer subtype."

Developing the University of Chicago Cancer Metabolomics Research Center

Jing Chen, PhD came to The University of Chicago in 2020 to establish and direct the University of Chicago Cancer Metabolomics Research Center, bringing collaborators together within the Center and the UChicago community. Strong UChicago support enabled Chen to recruit four junior faculty members in four years, to nurture translational, multidisciplinary research.

The recruits are all "rising stars with the desired expertise that can help us develop new team science projects, new collaborations and identify new research avenues," Chen says. In 2021, UChicago welcomed Brendan Faubert, PhD with expertise to cover the isotope tracing and metabolic flux study. In 2022, Chen recruited Simon Schwöerer, PhD, who researches fibroblasts and fibroblast metabolism for cancer and for fibrosis-related diseases. Janane Rahbani, PhD joined in 2023, with unique expertise in whole organism metabolism, cancer cachexia, and thermogenesis. Lastly, in 2024 Joon Seok Park, PhD joined, working on the microbiome and response to immunotherapy.

"Our section is really functional and powerful, and we have a lot of meaningful collaborations with people," Chen says. Large collaborations led to recent papers in Nature and Molecular Cell.



Jing Chen, PhD (right) and lab member Jiacheng Li

HEMATOLOGY/ ONCOLOGY

SECTION CHIEF

Sonali Smith, MD

CASTLE CONNOLLY'S EXCEPTIONAL WOMEN IN MEDICINE

Hedy Kindler, MD
Olatoyosi Odenike, MD
Rita Nanda, MD
Sonali Smith, MD
Ardaman Shergill, MD
Funmi Olopade, MD
Simona Chivu, MD
Olwen Hahn, MD
Wendy Stock, MD
Gini Fleming, MD

29 *CHICAGO MAGAZINE* TOP DOCTORS

$24.7M
TOTAL COST GRANT FUNDING

97,000 OUTPATIENT VISITS

PROMOTIONS

Justin Kline, MD (Professor), Akash Patnaik, MD, PhD (Associate Professor), Peter Riedell, MD (Associate Professor)

NEW FACULTY

Manik Amin, MD; Mohammad Atiq, MD; Janet Chin, MD; Joseph Franses, MD; Frederick Howard, MD; Jonathan Trujillo, MD, PhD; Caner Saygin, MD; Rajat Thawani, MD; Janane Rahbani, PhD; Sudha Yarlagadda, MD

U.S. NEWS & WORLD REPORT #1 CANCER PROGRAM IN IL; #12 IN THE U.S.

12 SPECIALTY CLINICS

863 PATIENTS ACCRUED TO CLINICAL TRIALS
$19M CLINICAL TRIALS EARNINGS
307 PUBLICATIONS, >60 IN HIGH IMPACT JOURNALS

FACULTY

Professors
Sonali Smith, MD (Chief)
Michael Bishop, MD
Jing Chen, PhD
Christopher K. Daugherty, MD
M. Eileen Dolan, PhD
Gini F. Fleming, MD
Marina Garassino, MD
Philip Hoffman, MD
Andrzej Jakubowiak, MD, PhD
Hedy L. Kindler, MD
Justin Kline, MD
Richard A. Larson, MD
Olatoyosi M. Odenike, MD
Olufunmilayo Olopade, MD
Peter O'Donnell, MD
Blase N. Polite, MD, MPP
Mark J. Ratain, MD
Wendy Stock, MD
Everett E. Vokes, MD
Amittha Wickrema, PhD

Associate Professors
Christine Bestvina, MD
Kenneth Cohen, MD
Olwen Hahn, MD
Rita Nanda, MD
Akash Patnaik, MD, PhD
Alexander Pearson, MD, PhD
Peter Riedell, MD
Russell Szmulewitz, MD
Michael J. Thirman, MD
Yonglan Zheng, PhD*

Assistant Professors
Manik Amin, MD
Mohammad Atiq, MD
Nan Chen, MD
Janet Chin, MD
Nora Choudhury, MD+
Jennifer Cooperrider, MD+
Benjamin Derman, MD
Michael Drazer, MD
Adam Duvall, MD
Brandon Faubert, PhD
Joseph Franses, MD, PhD
Frederick Howard, MD
Evgeny Izumchenko, PhD
Satyajit Kosuri, MD
Chih-Yi (Andy) Liao, MD
Mariam Nawas, MD
Daniel Olson, MD
Joon Seok Park, PhD+
Anand Patel, MD
Janane Rahbani, PhD
Gregory Roloff, MD+
Ari Rosenberg, MD
Caner Saygin, MD
Ardaman Shergill, MD
Simon Schwoerer, PhD
Randy Sweis, MD
Rajat Thawani, MD
Jonathan Trujillo, MD, PhD
Kaloyan Tsanov, PhD
Sudha Yarlagadda, MD

Instructors
Nabiel Mir, MBBS+
Austin Wesevich, MD, MPH+

Clinical Associates
Simona Chivu, MD
Mohamed Farhat, MD
Mark Kozloff, MD
Tabraiz Mohammed, MD
Sunila Narula, MD
Anu Neerukonda, MD
Shayan Rayani, MD
Dario Villamar, MD
James Wallace, MD

Administrator
Jerry Schissler

+FY25 New Faculty
*Research Track Faculty

Matthew Cerasale, MD

HOW AI IS IMPROVING CLINICAL DOCUMENTATION

There's a lot of talk about incorporating automation and artificial intelligence (AI) in healthcare, but how can it save providers time? Matthew Cerasale, MD, MPH figured out a way. The hospitalist and Outcomes Quality Director built AutoDx in Epic to help University of Chicago Medicine providers streamline and improve documentation quality. The result? In targeted diagnoses, it's reduced the documentation improvement team's queries by up to 80%, simultaneously capturing more accurate and complete diagnoses. On a given day, almost 750 Epic notes systemwide involved AutoDx.

AutoDx uses written note templates that may pop up when certain conditions are met within Epic. Providers can review, alter, include, or delete the suggested text from the medical record, as appropriate. For example, AutoDx might say "the patient's potassium is low so the provider ordered potassium replacement."

Not only does AutoDx assist providers in adding more robust information to the notes, but it can link to additional diagnostic information to add pertinent details and potentially even help narrow down some diagnoses, such as anemia types or chronic kidney disease levels.

AutoDx impacts

"What physicians document in the chart has a lot of implications," says Cerasale, both to the patient and the health system. Patients can access the notes, so having accurate information is helpful to them. More complete documentation can also help providers improve conversations with patients.

Documenting details about the diagnoses and capturing the full illness severity also impacts reimbursement. After introducing AutoDx in the neuro ICU and hospital medicine sections, Cerasale saw an increase in the case mix index, indicating illness severity.

There's another benefit to AutoDx: "It can connect to our externally reported metrics, affecting our overall rankings compared to other institutions," Cerasale says.

Improved workflow

The AutoDx project began in 2020, and it's been refined and continually rolled out to inpatient settings across UChicago Medicine facilities. Providers find it easy to use and some don't even realize it's an added feature. "Every time we implement it in a new section or facility, we see the amount of work the providers have to do asynchronously, go down," Cerasale says, as the documentation improvement team tracks the number of coding queries. Almost always, the associated case mix index simultaneously goes up.

AutoDx allows providers to better capture the work they are doing, sometimes reminding providers what to include in the notes. The chosen diagnoses, smart phrases, and automated suggested text are a collaboration between the clinical documentation improvement team, informatics team, and internal clinical experts. "We're continuing to add on new diagnoses and categories based on the where we're seeing lots of queries," Cerasale says.

AutoDx is attracting a lot of outside interest as well, including a research article the team published in the Journal of Applied Clinical Informatics. Along with executive sponsor Cheng-Kai Kao, MD, Chief Medical Information Officer, there's been vital support for AutoDx from Corey Tabit, MD, Ken Cohen, MD, Micah Prochaska, MD, Khanh Nguyen, MD, Ethan Molitch-Hou, MD, Ali Mansour, MD, and Kevin Smith, MD.

HOSPITAL MEDICINE

SECTION CHIEF

David Meltzer, MD, PhD

NEW FACULTY

Daniel Aldrich, MD; Maylyn Martinez, MD, MSc; John Murray, MD; Anna Symmes, MD

$5.6M

TOTAL COST GRANT FUNDING

63 PUBLICATIONS

17,605 ADMISSIONS

587 VISITS FOR POST-DISCHARGE CLINIC

66 VISITS UCM HOSPITAL AT HOME PROGRAM

446 VISITS PREOPERATIVE CLINIC

FACULTY

Professors
David Meltzer, MD, PhD (Chief)
Jeanne Farnan, MD, MHPE
Robert Gibbons, PhD

Associate Professors
Brian Callender, MD
Matthew Cerasale, MD, MPH
Anton Chivu, MD (Associate Chief)
Cheng-Kai Kao, MD
V. Ram Krishnamoorthi, MD, MPH
Shannon Martin, MD, MS
Elizabeth Murphy, MD
Gregory Ruhnke, MD, MS, MPH
Andrew Schram, MD, MBA
Joyce Tang, MD, MPH
John Yoon, MD

Assistant Professors
Daniel Aldrich, MD
Ashley Brown, MD
Thomas Chen, MD, PharmD
David Kim, PhD
Maylan Martinez, MD, MSc
Ethan Molitch-Hou, MD, MPH
John Murray, MD
Khanh Nguyen, MD
Justin Porter, MD
Micah Prochaska, MD, MS
Jocelyn Ramadan, MD
Kavita Renduchintala, MD
Gilmer Rodriguez, MD
Anna Symmes, MD
Arti Tewari, MD
Sandeep Tummala, MD
Dylan Yang, MD

Clinical Associates
Muhammed Raza Aftab, MD
Danish Ahmed, MD+
Habeeb Amatul, MD+
David Beam, MD
Nicole Bendin, MD
Grace Berry LaShore, MD
Dhruvatej Boddupalli, MD
Alexander Boivin, MD
Sneha Bontu, MD
Mario Candamo, MD+
Melissa Chen, DO+
Kwang Jin Choi, MD
Tatvam Choksi, MD
Jeremy Cohen, MD+
Rachel Cohen, MD
Purav Desai, DO+
Shahd Duzdar, MD+
Dana Edelson, MD, MS
Joseph Eid, MD+
Chukwunonyelum Ekwempu, MD+
Vanessa Fu, MD+
Sana Hasan, MBBS+
David Hwang, MD
Muftawu-Deen Iddrisu, MD+
Blanca Iriarte Oporto, MD
Shalini Jayawickrama, MD
Jody Junia, MD+
Ashok Khilwani, MBBS+
Daniel Klarr, MD
Matthew Lustig, MD+
Nathaniel Meadow, MD
Ghassan Mubarak, MD
Olufunmilayo Obisesan, MBBS, MPH+
Stephan Olaya, MD
Elvisa Orhani, MD
Peter Petropulos, MD
Giancarlo Pizzino, MD+
Dragana Radovanovic, MD
Arash Rafiq, MBBS, MBA+
Seline Rajan, MD
Bashar Ramadan, MD
Abhishek Ravinuthala, MD+
Alexander Reisner, MD
Denise Sakyi, MD+
Faryal Shaikh, MD+
Florence Shin, MD
Natasha Singh, MD
Caroline Skolnik, MD
Alexander Small, MD+
Maya Viner, MD
Chang Yang, MD, PhD+
James Yang, MD
Madhu Yarlagadda, MD
Alexandre Zaharia, MD
Colin Zepeda, MD+
Rachel Zhuang, MD

Section Administrator
Catherine Paez

+New FY25 Faculty

THROUGH MENTORSHIP, INFECTIOUS DISEASE CLINICIANS SPREAD THEIR INFLUENCE

Top: John Schneider, MD, MPH (center) with Jade Pagkas-Bather, MD, MPH (left) and Mainza Durrell, DrPH, MBA (right)

Bottom: Vice President Yuan Yufeng of Wuhan University recognizes Renslow Sherer, MD as an Honorary Professor at the Wuhan University School of Medicine in 2015

Mentorship takes many forms. Mentoring a student or junior colleague at your institution, peers in a different department, or even people on the opposite side of the world. Clinicians in the Section of Infectious Diseases and Global Health are doing all of these—and more—raising the standards of medical care and research from the University of Chicago to Wuhan University in China.

John Schneider, MD, MPH, estimates spending about a quarter of his time on mentorship. For his dedication and impact, he received the 2024 Arthur Rubenstein Mentorship in Academic Medicine Award. During his 16 years as a physician-scientist at the University and the director of the Chicago Center for HIV Elimination he has viewed mentorship as more than just sharing knowledge through conversations. Mentorship comes with infrastructure. "It creates opportunities for people. It includes giving resources to people that they don't have. It includes creating an environment that's accepting of all backgrounds and diversity. And it means creating new spaces for science that didn't exist prior," Schneider says. "Those four things are what makes my mentorship and operation unique."

A win-win proposition

Schneider works at the intersection of clinical investigation and network science, in HIV, sexually transmitted infections, and substance abuse. Working to implement helpful systems and interventions for patients, mostly on the south side of Chicago, he has more ideas than he can study. Mentorship seeds studies and ideas that can help the local and scientific community.

Part of Schneider's mission is ensuring that the patients and staff can see faculty that looks like them or have the same identities. He does so by recruiting and supporting underrepresented people in academic medicine, including people of color, and gender and sexual minorities.

"Mentorship raises our profile in the community, showing that this is a safe place," he says. It also supports the institution in other ways. Schneider's success and commitment to mentorship attracts top talent from across the country, contributing to the University of Chicago as a leading institution in academic medicine.

Bringing University of Chicago standards to China

When Renslow Sherer, MD, director of the International AIDS Training Center came to the University, he did not anticipate the University's long-term impact throughout China. His and the University's relationship with multiple universities and local health authorities there has already lasted two decades. Projects include reforming and developing undergraduate and graduate medical school curricula for Wuhan University, creating its residency program, and providing specialty training in infectious disease in the last two years.

In this collaboration, Sherer takes pride in having recruited and mentored Jonathan Lio, MD, Hongmei Dong, PhD, and Ivy Jiang, who devote their efforts to this work. The countries have also exchanged talent, with more than 60 University of Chicago faculty members and 80 medical students going to China over the years, helping train and share curricula in multiple specialties. Several residents, fellows, medical students, and faculty members have published on quality improvement activities in China and other projects as well.

Sherer notes that the University efforts have greatly improved China's medical education and standards, and he heavily credits Lio's work in these projects. "He has grown into a remarkable scholar in his own right, representing us, and creating the International Medical Educators Project (IMEP)," he says, adding that he's brought innovations such as competency-based training for residents to work independently. "It's really quite a remarkable achievement."

INFECTIOUS DISEASES & GLOBAL HEALTH

SECTION CHIEF

Jennifer Pisano, MD

NEW PROMOTIONS

Russell Brewer, DrPH, MPH (Research Professor)
Anu Hazra, MD (Associate Professor)
Jonathan Lio, MD (Associate Professor)

70 PUBLICATIONS

OVER 1 MILLION HIV TESTS PERFORMED

(ROUTINE HIV SCREENING IN HEALTHCARE SETTINGS PROGRAM)

40,000+ LGBTQIA ADULTS AND YOUTHS SERVED

(HOWARD BROWN HEALTH)

4,263 OUTPATIENT VISITS

NEW FACULTY

Elizabeth Bell, MD; Christopher Lehmann, MD; En-Ling Wu, MD

$12.8M TOTAL COST GRANT FUNDING

$319K CLINICAL TRIALS EARNINGS

15TH YEAR WUHAN UNIVERSITY MEDICAL EDUCATION REFORM PROJECT

INFECTION CONTROL PROGRAM CONTRIBUTES TO 25TH CONSECUTIVE "A" IN PATIENT SAFETY

(LEAPFROG HOSPITAL SAFETY GRADE)

FACULTY

Professors
Russell Brewer, DrPH, MPH*
Eric Pamer, MD
John Schneider, MD, MPH
Renslow Sherer, MD
Stephen Weber, MD, MS

Associate Professors
Anu Hazra, MD
Anna Hotton, PhD*
Emily Landon, MD
Jonathan Lio, MD
Mai Pho, MD, MPH
Jennifer Pisano, MD (Chief)
Jessica Ridgway, MD, MS

Assistant Professors
Elizabeth Bell, MD
Michael Czapka, MD
Daniel Friedman, MD
Christopher Lehmann, MD
Moira McNulty, MD, MPHS
Darnell Motley, PhD*
Jade Pagkas-Bather, MD
En-Ling Wu, MD, MS
Patricia Zuccaro, MD

Section Administrator
Felipe Briceño

*Research Track Faculty

BRINGING MULTIDISCIPLINARY CARE INTO HYPERTENSION AND KIDNEY STONE PROGRAMS

Left: Anna Zisman, MD with patient
Bottom: Mohammed Rafey, MD with patient

While close to 50% of the U.S. adult population have hypertension, recent studies demonstrate secondary hypertension is not as rare as previously thought. In patients with secondary hypertension—the blood pressure is elevated due to another disease or condition. The AHA Comprehensive Hypertension Center at the University of Chicago is a major referral center for complex and secondary hypertension. "The number of secondary hypertension patients we see here is astounding," says Mohammed Rafey, MBBS, MS, director of this Center. "Here it seems like secondary hypertension is almost as common as primary hypertension."

Difficult to diagnose and treat cases are one reason patients come, and increasingly, the Center uses a multidisciplinary approach. Specialists have always been part of the process, but in the last year, leaders reconfigured the Center so subspecialists could more easily connect and get patients faster workups. The hypertension management multidisciplinary team consists of leading experts in vascular surgery, interventional radiology, OB/GYN, neurology, internal medicine, emergency medicine, endocrine surgery, and cardiology.

Changing hypertension care

Patients who had not seen results when visiting multiple doctors and hospitals elsewhere, have told Rafey their hypertension resolved in their first year at the Center. "Some said it saved their lives," Rafey says.

The home blood pressure monitoring program exemplifies this multidisciplinary approach. The informatics department created software to help patients with uncontrolled hypertension. Patients are given a blood pressure monitor which connects to their electronic health record. This is monitored by a team of nurse practitioners and pharmacists in general medicine, plus informatics. Clinicians frequently review patients' blood pressures, following a defined treatment path for uncontrolled hypertension. They may add new medications as needed, but they also contact patients in between medical visits, reinforcing the importance of lifestyle modifications. "Many studies show that frequent feedback to patients helps in controlling their blood pressure," Rafey says.

Patients typically graduate from this program in four months. If the hypertension is not well controlled, patients are referred back for secondary hypertension workups.

Kidney Stone Program

The department's Kidney Stone Program also takes a multidisciplinary approach. Clinicians see approximately 300 new patients a year in the country's largest kidney stone prevention program, "and we're looking to further increase that," says Anna Zisman, MD, the program's director. "We have made huge strides in making it more patient-centric, including ease of accessibility to our testing and to our renowned clinical experts."

The clinic also focuses on multidisciplinary care, including with the urology department. Last year the Program brought on a physician assistant from urology to bridge the two specialties. "She's now participating in our kidney stone clinics and the urology clinics, and patients see that connection," Zisman says.

On the research end, the team is studying the role of inflammation in kidney stone formation, and expanding studies in kidney stone formation differences by ancestry. Researchers are also exploring the interplay of kidney stones, bone disease, and inflammatory bowel disease, as well as investigating the microbiome and role of oxalate in stone formation. "What's unique about our program is the breadth of expertise in pathophysiology of stone formation coupled with a patient-first approach, including a focus on social determinants of health and ability to access care—a core mission of the department," she says.

NEPHROLOGY

SECTION CHIEF

Arlene Chapman, MD

67 PUBLICATIONS

NEW FACULTY

Yvonne El Kassis, MD
Mohammed Rafey, MD

$250K CLINICAL TRIAL EARNINGS

$1.2M
TOTAL COST GRANT FUNDING

30 STUDENTS HOSTED FROM ACROSS NORTH AMERICA FOR **TREKS PROGRAM** (ONE WEEK ON-SITE SCHOLARLY WORK FOCUSED ON KIDNEY DISEASE)

NEW NEPHROLOGY-CRITICAL CARE FELLOWSHIP AND HYPERTENSION FELLOWSHIP

200+ KIDNEY TRANSPLANTS

OUTPATIENT VISITS: 5400

PROCEDURES:

- **UCMC INPATIENT RENAL REPLACEMENT THERAPY UNIT:**
  - –**7,995** INTERMITTENT HEMODIALYSIS TREATMENTS
  - –**3,938** CONTINUOUS RENAL REPLACEMENT TREATMENTS
- **OFFSITE DIALYSIS CENTERS: ~12,000 INTERMITTENT HEMODIALYSIS TREATMENTS**
- **385 RENAL BIOPSIES**

FACULTY

Professors
Arlene Chapman, MD (Chief)
Fredric Coe, MD
Michelle Josephson, MD
Jay Koyner, MD
Elaine Worcester, MD

Associate Professors
Beatrice Concepcion, MD
Patrick Cunningham, MD
Mary Hammes, DO
Benjamin Ko, MD
Rita McGill, MD
Tipu Puri, MD, PhD
Bharathi Reddy, MD
Nicole Stankus, MD
Anna Zisman, MD

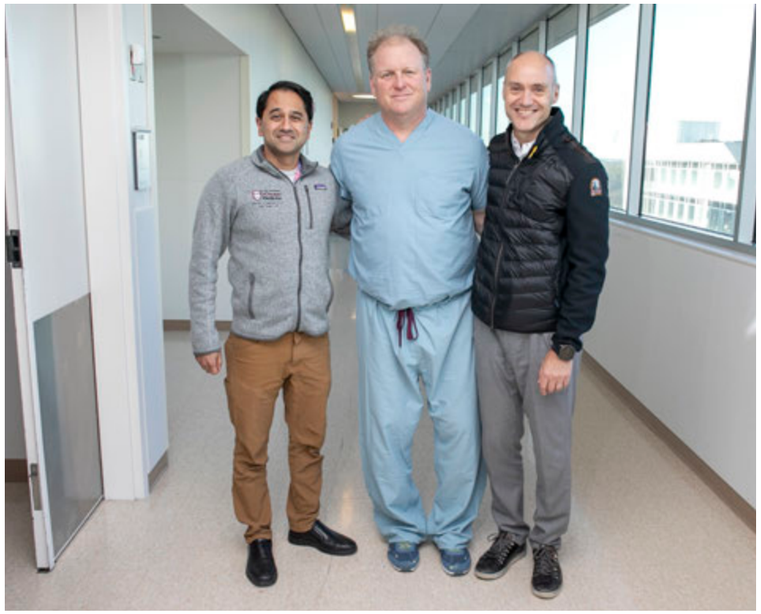
Assistant Professors
Louis Baeseman, MD+
Marco Bonilla, MD
Yvonne El Kassis, MD
Samantha Gunning, MD
Sambhavi Krishnamoorthy, MD
Yousuf Kyeso, MD
Zainab Obaidi, MD
Megan Prochaska, MD
Mohammed Rafey, MD

Section Administrator
Matthew Lagen

Administrative Specialist
Tishena Wilson

+New FY25 Faculty

PULMONOLOGISTS USE HIGH-TECH AND HUMAN-POWERED APPROACHES TO PATIENT CARE



Top: Ajay Wagh, MD; Kyle Hogarth, MD; Septimiu Murgu, MD
Bottom: Bhakti Patel, MD

When a patient needs a lung biopsy, the traditional "through the chest" needle biopsy approach has a 20% risk of causing a pneumothorax, a collapsed lung. With a needle biopsy, it's also not possible to sample the lymph nodes. If the patient has cancer, its potential spread can't be assessed, affecting staging and treatment.

These issues are eliminated when the interventional pulmonary (IP) team uses a second-generation Galaxy System, an advanced lung navigation robotic platform. "Our complication rate is less than 1%," says Kyle Hogarth, MD, Co-Director of the Lung Cancer Screening Program and Director of Bronchoscopy. "We were the first site in the U.S. and the first commercial site in the world to use it," he says, beginning in May, 2023. The robot allows IPs to use X-rays intraoperatively, providing CT scan-quality images that help adjust biopsy targeting.

The robotic approach also allows IP faculty to biopsy smaller areas in the outer edges of the lungs, and when finding a tumor in the nodule, to leave a mark to guide the surgeon. Complementing the robotic approach, the University is also one of the only U.S. sites using a Van Gogh machine to scan lung biopsies in real time to confirm if the removed tissue is the targeted tumor. "This is what we're exceptionally good at — proving what these nodules are, staging appropriately, and getting patients rapidly into the correct place for treatment," Hogarth says.

The IP team performs roughly 500 robotic bronchoscopies a year. And though bronchoscopy numbers are rising, the team prides itself on short waits for bronchoscopies – less than 10 days, allowing patients to get their results and potential treatment faster. "This compares to the national average of 2-3 months from CT scan to diagnosis, and in our local area it's over a month," Hogarth says.

The IP program is expanding with a fourth physician, and is training its 11th fellow.

Improving cognition after ventilation

Outside the interventional realm, pulmonologist Bhakti Patel, MD is investigating human-powered ways to improve outcomes for people who survive critical illnesses. While many things can land a person in the ICU, Patel says, human-powered interventions have been the key to clinical gains, whether improving survival, lowering disability levels, or reducing time on ventilators. The most recent efforts include awakening patients in the first 72 hours they are on ventilators, for early mobilization.

The clinical trial results, published in June 2023, showed that these efforts helped prevent long-term disability and reduced cognitive impairment in 20% of patients. "Twenty percent seems small, but in effect size from other clinical trials, it's pretty large because critical illnesses are heterogenous," Patel says. "To find something that works for everybody, that large of an effect is not common."

Early mobilization is difficult for staff, requiring orchestration between bedside nursing, physicians, respiratory therapists, physical therapists, occupational therapists, and respiratory therapists. "We found a way to get people out of bed that early, when they're that sick, in a safe manner. Now it's our charge to show how others can do it too," Patel says. "It's the ultimate human-powered intervention," she says.

PULMONARY/ CRITICAL CARE

SECTION CHIEF

Gökhan M. Mutlu, MD

70 PUBLICATIONS

NEW FACULTY

Anila Khan, MD
Deepa Ramadurai, MD
Obada Shamaa, MD
Gorav Sharma, MD
Jennifer Houpy Szafran, MD

$244.5K CLINICAL TRIAL EARNINGS

$19M
TOTAL COST GRANT FUNDING

PROCEDURES 1,189

CHICAGO MAGAZINE TOP DOCTORS

Kyle Hogarth, MD
John Kress, MD
Edward Naureckas, MD
Mary Strek, MD
Christopher Sola Olopade, MD

NEW PROMOTIONS

Yun Fang, PhD (Professor)
Alejandra Lastra, MD (Associate Professor)

OUTPATIENT VISITS: 12,034

NEWSWEEK #100 2024 WORLD'S BEST SPECIALIZED HOSPITALS

PULMONOLOGY PROGRAM RANKED #35 IN *US NEWS AND WORLD REPORT* BEST HOSPITALS

FACULTY

Professors
Gökhan M Mutlu, MD (Chief)
Yun Fang, PhD
Kyle Hogarth, MD
John Kress, MD
Septimiu Murgu, MD
Edward Naureckas, MD
Julian Solway, MD
Mary Strek, MD
Esra Tasali, MD
Steve White, MD

Associate Professors
Bohao Chen, PhD*
Nickolai Dulin, PhD
Robert Hamanaka, PhD*
Alejandra Lastra, MD
John McConville, MD
Jason Poston, MD

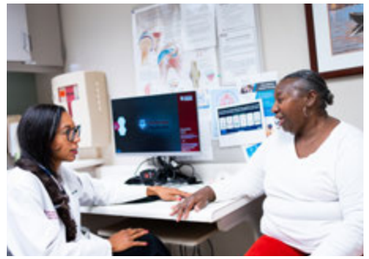
Assistant Professors
Ayodeji Adegunsoye, MD, PhD
Anila Khan, MD
Lucas Kimmig, MD
Cathryn Lee, MD+
William Parker, MD, PhD
Bhakti Patel, MD
Deepa Ramadurai, MD
Nathan Schoettler, MD, PhD
Gorav Sharma, MD
Jennifer Szafran, MD
Kevin Tsui, MD
Scott Vasher, MD, MS+
Ajay Wagh, MD, MS
Krysta Wolfe, MD

Instructor
Obada Shamaa, MD, PhD

Section Administrator
Elizabeth Fitzgerald, MPA

*New FY25 Faculty
†Research Track Faculty

RESEARCH, FROM BASIC CONCEPTS TO HUMAN TRIALS



Top: Amy Weinmann, PhD
Bottom: Kimberly Trotter, MD with patient

One of the advantages of treating a large number of patients is that it's easier to include them in research studies—good for science, good for humans. With around 500 patients treated at the University of Chicago's Lupus Clinic, clinicians and researchers like Kimberly Trotter, MD can include these patients in studies, whether pharmaceutical or longitudinal registry studies.

The University is involved in the Lupus Clinical Investigators Network. "That has really allowed us to give our patients more access to clinical trials, says Trotter, co-director of the Lupus Clinic." As a pilot site for the Lupus Landmark Study (LLS), longitudinal research which just completed its first year, the University will recruit participants from different disease stages for five years. Enrolled patients will record symptoms and quality of life factors, while providing biological samples. The research is designed to accelerate personalized treatment development for people with lupus.

Start with basic research

Investigators in the Section of Rheumatology are also focusing on basic research. Amy Weinmann, PhD, who joined the department in March, focuses on immune cells and the difference between mice and humans in genome regulation. When trying to translate a drug target from mouse studies to the clinic, the target may not work as predicted if genome regulation principles differ. Understanding how to interpret it could lead to better translational efficacy predictions.

With the growing availability of public raw data sets from other studies, Weinmann's lab is excited to incorporate data mining approaches. "In the past, it's one and done. You use the data, publish and share one idea, and that's the end," she says. Now researchers can dig into those data sets to ask different questions.

Researchers used to rationalize why they were seeing differences between mouse and human gene regulation, but public data sets now provide vast resources for different cell types and species. "You can look at bigger questions without having to do everything yourself," she says.

Make science more inclusive

These public data sets are leading Weinmann to her other passion: trying to make science more inclusive. A wider range of perspectives, backgrounds and experiences allow researchers to ask more diverse questions. Weinmann sees this as an opportunity to teach data mining principles and analysis to more people, allowing the research pool to expand.

Research can be expensive and funding hard to come by. "If you don't have the resources, you can't actually do that work," she says. By understanding how to utilize publicly available data sets, cost can be less prohibitive, and research can be more inclusive, leading to new scientific questions.

Weinmann is in the nascent stage of designing a scientific data mining outreach effort, to share tools and approaches for hands-on study. "I'd start with a rollout at University of Chicago, but once we design it and know it works, we can widen the reach," especially to virtual learning and minority-serving institutions without large research budgets. "There are so many brilliant minds out there. We need to provide the opportunity for them to make the next big discoveries," she says.

RHEUMATOLOGY

SECTION CHIEF

Marcus Clark, MD

NEW FACULTY

Martina Damo, PhD
Lin Shen, MD, PhD
Craig Smuda, MD, PhD
Amy Weinmann, PhD

$153K CLINICAL TRIAL EARNINGS

$5.3M TOTAL COST GRANT FUNDING

HIGH IMPACT PUBLICATIONS IN *NATURE IMMUNOLOGY, JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, CELL, LANCET RHEUMATOLOGY*

MARCUS CLARK, MD PHD, RECIPIENT OF THE 2024 FACULTY AWARD FOR EXCELLENCE IN PHD TEACHING AND MENTORING ALSO AWARDED CHAN ZUCKERBERG AI BIOHUB AND R01 – USING AI FOR LUPUS PROGRESSION

MARIA-LUISA ALEGRE, MD PHD, RECEIVED THE AMERICAN JOURNAL OF TRANSPLANTATION OUTSTANDING BASIC SCIENCE ARTICLE AWARD FOR "MICROBIOTA-DEPENDENT AND -INDEPENDENT EFFECTS OF OBESITY ON TRANSPLANT REJECTION AND HYPERGLYCEMIA"

KIM TROTTER, MD, BIOLOGICAL SCIENCES DIVISION DISTINGUISHED CLINICIAN AWARD

KICHUL KO, MD, AWARDED A COMPETITIVE FELLOWSHIP TRAINING AWARD FOR THE 9TH STRAIGHT YEAR

REEM JAN, MBBS, EDITOR FOR THE INTERDISCIPLINARY RHEUMATOLOGY BOOK SERIES

FACULTY

Professors
Marcus Clark, MD, PhD (Chief)
Maria-Luisa Alegre, MD, PhD
James Curran, MD
Michael Becker, MD‡
Malay Mandal, PhD*
Leif Sorensen, MD, PhD‡
Amy Weinmann, PhD

Associate Professors
Kichul Ko, MD

Assistant Professors
Martina Damo, PhD
Michael Macklin, MD PharmD+
Reem Jan, MBBS
Pankti Reid, MD
Kimberly Trotter, MD
Lin Shen, MD, PhD
Craig Smuda, MD, PhD
Iazsmin Ventura, MD

Clinical Associates
Andrea Ramirez Gomez, MD

Section Administrator
Enrique Quevedo

+New FY25 Faculty
*Research Track faculty
‡Emeritus

RESIDENTS

INTERNAL MEDICINE RESIDENTS

2025 Chief Residents

Chukwunedum Aniemeka
Layne Keating
Meaghan O'Hara
Varun Subashchandran

2024 Chief Residents

Ashley La
Fawsia Osman
Ankur Srivastava
Samuel Trump

Third Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Ezinne Agwaramgbo	III	University of Miami
Ololade Akingbade	III	University of Chicago
Amritpal Bahga	III	Florida Atlantic University
Muriel Battaglia	III	University of Chicago
Manasa Brown	III	Rush University
Cameron Dandridge	III	University of Ilinois
Nikita Deshpande	III	University of Chicago
Emmanuel Dike-Udensi	III	University of Kentucky College of Medicine
Tracy Dinh	III	University of Chicago
Bonaventure Dzekem	III	University of Buea Faculty of Health Sciences (CM)
James Fan	III	University of Chicago
Susan Feldt	III	University of Chicago
Jeremy Klein	III	Temple University
Srisha Kotlo	III	Medical College of Wisconsin
Brianna Lambert	III	University of Chicago
Nicole Lum	III	George Washington University
Marcus Marable	III	University of Colorado
Josef Miller	III	Medical College of Wisconsin
Zoey Morton	III	Emory University
Joanna Obaoye	III	Medical College of Wisconsin
Pooja Parekh	III	University of Ilinois
Geethanjali Rajagopal	III	University of Missouri
Nikhil Reddy	III	Wright State University
Mary Ryan	III	Thomas Jefferson University
Ryan Sachar	III	Washington University
Arman Shahriar	III	University of Minnesota
Divya Singh	III	University of Ilinois
Varsha Swamy	III	Rosalind Franklin University of Medicine & Science Chicago Medical School
Kari Tyler	III	Emory University
Matthew Walser	III	University of Texas, Galveston
Joshua Weinberg	III	University of Ilinois
Edward Yang	III	Virginia Commonwealth University
Carlos Zavala	III	UCLA

Second Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Christine Adib	II	Ohio State U
Leah Alemu	II	U Minnesota
Benjamin Aronson	II	U Illinois-Chicago
Victoria Van Benschoten	II	Baylor
David Cao	II	U Chicago
Michael Chen	II	U Virginia
Tommy Chiou	II	UCSD
Sebastian Dobrow	II	U Virginia
Aaron Goffinet	II	Saint Louis U
Leah Goldberg	II	Temple U
Christina Hannah	II	U Minnesota
Ethan Harris	II	U Illinois-Chicago
Ana Lanier	II	Wayne State
Anie McDermott	II	U Pittsburgh
Rohan Mundkur	II	Medical College of GA
Newsha Nikzad	II	Baylor
Mathew Padanilam	II	Indiana University
Zach Pellis	II	Temple University
Nicholas Pradhan	II	George Washington
Raul Sandella	II	University of Cincinnati
Neal Shah	II	University of Missouri-Kansas City
Shiv Shah	II	Mayo-Clinic Arizona
Camron Shirkhodaie	II	University of Chicago
Kathryn Sommer	II	Thomas Jefferson University
Michael Sun	II	University of Chicago
James Valderrama	II	Boston University
Yael Wollstein	II	University of Pittsburgh
Teresa Xiao	II	University of Chicago
Ryan Yang	II	University of Illinois-Chicago

First Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Anya Agrawal	I	UChicago
Maryam Alausa	I	Upenn
Adam Cardone	I	Loyola
Lendy Chu	I	Umichigan
Meghan Connors	I	TempleU
Michelle Dai	I	Baylor
Ban Dodin	I	UWisconsin
Keaton Erickson	I	Rosalind Franklin
Shannon Gordon	I	UWash
Justin Kahla	I	Baylor
Maria Kaufman	I	UChicago
Harveen Kaur	I	Ulllinois-Peoria
Omar Lopez	I	Ulllinois-Chicago
Fiona Lutolli	I	Saint LouisU
Caitlin Maloney	I	Rush University
Franke Miralles	I	UFlorida
Yasmeen Murtaza	I	UFlorida
Hana O'Hagan	I	Loyola
Mit Patel	I	Wayne State
Romy Portieles Pena	I	UChicago
Apoorva Ravichandran	I	USF
Adam Scott	I	Uminnesota
Abigail Sneider	I	UChicago
Monika Stoskute	I	Ulllinois-Chicago
Elizabeth Terman	I	UChicago
Miles Thomas	I	Virginia Tech
Tova Wasserman	I	IndianaU
Brandon Wheatley	I	Howard
Jessica Yamada	I	Brown

PRELIMINARY

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Quentin Howlett-Prieto	I	Ulllinois-Chicago
Melanie Martel	I	UC Davis
Bomi Omoleye	I	Ulbadan
Alaina O'Rourke	I	Wright State
Omer Saeed	I	Northwestern
Tiffani Spaulding	I	Wright State

Physician Scientist Development Program

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Zach Beller	I	WashU
Shree Bose	II	Duke
Meytal Chernoff	I	UChicago
Kaitlin McLean	II	UChicago
Sid Ramesh	I	UChicago
Hani Shayya	I	Columbia
Adam Szmelter	I	Ulllinois-Chicago
Tina Zheng	II	UCSF

MEDICINE-PEDIATRICS

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Sara Cooper	I	Ulllinois-Chicago
Rahul Dadwani	III	UChicago
Taylor Ellebb	I	Ulllinois-Chicago
Shreeya Joshee	I	UNevada-Reno
Anjana Kapadia	III	Georgetown
Meredith Kline	III	Emory
Maya McKee	II	UChicago
Priya Nair	I	Albany
Dhruvil Patel	II	Wayne State
Zoie Sheets	II	Ulllinois-Chicago
Ronay Thinas	III	UCincinnati
Habib El-Khoury	II	Amer U of Beirut

DERMATOLOGY

Third Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Gaurav Agnihotri	IIII	IL - Un of Illinois Col of Med
Colton (Cody) Funkouser	IIII	Georgetown University School of Medicine
Liesl Schroedl	IIII	University of Chicago Pritzker School of Medicine
Sarah Semaan	IIII	Un of California, San Francisco, Sch of Medicine

Second Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Victoria Lee	III	University of Chicago Pritzker School of Medicine
Kelsey Gradwohl	III	University of Michigan Medical School
Mina-Abena Maranga	III	Perelman School of Med at The Un of Pennsylvania

First Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Grace Wei	II	University of South Florida College of Medicine
Sneha Butala	II	Oakland Univ, William Beaumont School Of Medicine
Alanna Shefler	II	University of Michigan Medical School

EMERGENCY MEDICINE RESIDENTS

Third Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Ezinne Akpara	III	CUNY School of Medicine
Matthew Bonomo	III	University of Chicago
Jonathan Giuliano	III	Duke University
Naeha Haridasa	III	George Washington University
Jose Bien Rafaelo Hernandez	III	University of Wisconsin
Taylor Jordan	III	University of Washington
Ziomara Jurado	III	University of Nebraska
Arielle Kempinsky	III	Stanford University
Natalie Lemon	III	Loyola University
Jordan Marganski	III	University of Chicago
Udoka Oji	III	University of Cincinnati
Hassan Owens	III	UCLA
Sara Twadell	III	Florida Atlantic University
Tajhshea Walden	III	Saint Louis University
Lauren Wells	III	University of Washington
Rachel Whittaker	III	University of Kentucky
Eric Young	III	Nova Southeastern University Dr. Kiran C. Patel College of Allopathic Medicine

Second Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Jessica Andre-Todd	II	Howard University
Lilian Anosike	II	Howard University
Kalkidan Aseged	II	The Ohio State University
Michael Barton	II	Harvard
Karael Campbell	II	Ohio University Heritage College of Osteopathic Medicine
Charlotte Farley	II	Georgetown University
Taylor Franklin	II	University of Virginia
Andrew Geiser	II	Northwestern University
Jane Harter	II	Loyola University
Maria Holstrom-Mercader	II	Penn State
Courtney Miller	II	Columbia University
Kenneth Nwankpa	II	Lake Erie College of Osteopathic Medicine
Adetoriola Odetunde	II	St. George's University
Ekiomoado Olumese	II	Vanderbilt University
Alexandria Oswalt	II	Michigan State University
Minal Patel	II	Indiana University
Christopher Puntaseca	II	Stanford University
Trey Williams	II	Michigan State University

First Year Residents

RESIDENT	PGY LEVEL	MEDICAL SCHOOL
Carley Coopwood	I	University of Arizona
Michael Ezeana	I	Georgetown
Anna Gragas	I	University of Hawaii
Braylee Grisel	I	Duke
Amera Hassan	I	University of Minnesota
Bradley Heinz	I	UC Berkeley
Daelon Morais	I	Baylor
Julia Murray	I	Ohio State
Chad Nix	I	Oregon
Brandon Okeke	I	University of Texas Medical Branch at Galveston
Cathryn Phouybanhdyt	I	University of Wisconsin
Tanner Reed	I	LSU
Emily Terian	I	WashU
Michael Tsai	I	Duke
Jada Watts	I	Howard
Jaclyn Wecht	I	New York Medical College
Madeline Wegener	I	Tulane
Natalie Zink	I	Medical College of Georgia

FELLOWS

CARDIOLOGY

Cardiovascular Diseases

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Elizabeth Cabrera	IV	University of Pittsburgh	Northwestern University
Ashwin Kelkar	V	Case Western Reserve University	Weill Cornell Medical College
Akash Patel	IV	Northwestern University	University of Texas
Rukmini Roy	IV	Southern Illinois University	University of Chicago
Cory Sejo	IV	The University of Texas	Stanford University
Mikail Siddiki	IV	University of Cincinnati	University of Chicago
Mary Acosta	VI	Schmidt College of Medicine	University of Chicago
Kevin Chang	VI	Northwestern University	University of Minnesota
Colin Gallagher	VI	Saint Louis University	University of Illinois
Alejandro Plana	V	UofC	University of Chicago
Maria Poonawalla	V	Loyola University	University of Chicago
Christian Selinski	V	Drexel University	University of Virginia
Marie Altenburg	VII	University of Illinois	Medstar Georgetown University
Christopher Fernandez	VI	University of Illinois	University of Chicago
Jia Guo	VI	University of Chicago	University of Chicago
Linda Liu	VII	University of Chicago	University of Washington
Michael Randazzo	VI	Perelman School of Medicine	Columbia University
Giancarlo Saldana	VI	University of Illinois	University of Chicago

Cardiac Imaging Cardiology

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Martin Gruca	VII	University of Michigan	Northwestern University
Angel De La Cruz Tejada	VII	Pontificia Universidad Católica Madre y Maestra	Icahn School of Medicine at Mount Sinai

Interventional Cardiology

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Jonathan Lattell	VIII	Loyola University	University of Chicago
Charishma Nallapati	VII	The University of Toledo College	University of Florida

Clinical Cardiac Electrophysiology

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Alex Choy	VII	Albert Einstein College of Medicine	Icahn School of Medicine at Mount Sinai Hospital
Corbin Rayfield	VIII	University of Illinois	Mayo Clinic Arizona
Jeremy Treger	VII	University of Chicago	University of Chicago

Advanced Heart Failure

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Orly Leiva	VII	Boston University	Brigham and Women's Hospital
Dimitar Saveski	VII	Schulich School of Medicine	University of Western Ontario

Preventive Cardiology

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Marie Altenburg	VII	University of Illinois	University of Illinois

Cardiac Amyloidosis

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Hatem Hassaballa	VII	Cairo Faculty of Medicine, Egypt	Weiss Memorial Hospital

DERMATOLOPATHOLOGY

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Kayla St. Claire	V	Un of Illinois Col of Med	Wayne State University

EMERGENCY MEDICINE

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
David Clarke	V	University of Missouri	The Brooklyn Hospital Center
Brent Olson	IV	Midwestern University	Loyola University Medical Center
Sean Thompson	IV	University of California, Irvine	University of Chicago
Douglas Moss	IV	Rosalind Franklin University	Mayo Clinic
Karly Farr	V	Northwestern University	Kings County Hospital/ SUNY Downstate Medical Center

ENDOCRINOLOGY, DIABETES AND METABOLISM

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Kerim Kaylan	IV	Michigan State University College of Osteopathic Medicine	Beaumont Hospital-Royal Oak
Marcelo Ramirez	V	Thomas Jefferson University	Brown University
Caroline Abe	V	University of Illinois College of Medicine	University of Chicago
Fawsia Osman	V	Universidad de Ciencias Medicas	John Stroger Hospital

MEDICINE-PEDIATRICS ENDOCRINOLOGY

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Rachel Umans	VI	Weill Cornell Medicine	Rutgers NJMS
Jeremy Winer	VII	University of Maryland	University of Pittsburgh

PEDIATRIC ENDOCRINOLOGY

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Isabella Marranzini Rodriguez	VII	Universidad Iberoamericanana (UNIBE)	University of Illinois Chicago
Hansika Narayanan	V	University of Illinois College of Medicine	Spectrum Health/Helen DeVos Children's Hospital
Anne Gandolfi	IV	Loyola Stritch School of Medicine	Rush University Medical Center

GASTROENTEROLOGY, HEPATOLOGY AND NUTRITION

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Ross McMillan	VII	Johns Hopkins University	University of Chicago
Omar Jamil	VII	University of Illinois	University of Chicago
Jacob DiBattista	VI	Rush University	University of Michigan
Yichin Fu	VI	Columbia University	Mount Sinai
Emaree Cobb	V	Howard University College of Medicine	University of Miami/ Jackson Memorial Hospital
Alvin George	V	University of Illinois	Washington University
Sriya Muralidharan	VI	Warren Alpert Medical School of Brown University	Duke University
Sarah Park	VI	Albert Einstein College of Medicine of Yeshiva University	Icahn SOM at Mt. Sinai
Surya Khadilkar	V	Case Western Reserve Unviersity	Tufts Medical Center
Emma Levine	IV	University of California San Francisco	University of California San Francisco
Rebecca Yao	IV	Drexel University College of Medicine	Mayo Clinic
Meredith Yellen	V	University of Illinois College of Medicine	University of Illinois at Chicago
Grace Kim	VII	Ohio State University College of Medicine	University of Maryland Medical Center
Alan Hutchison	VI	University of Chicago	University of Chicago
Russell Yanofsky	VI	McGill University	McGill University
Asher Shafrir	VII	Hebrew University	
Nisha Howarth	V	University College Dublin	Western University
Hannah Roth	V	University of Chicago	University of Chicago
Rangesh Modi	V	Smt. NHL Municipal Medical College	Texas Tech University Permian Basin

GERIATRICS AND PALLIATIVE MEDICINE

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Leeseul Kim (Geriatrics)	IV	Konkuk University, Seoul	St. Francis Hospital
Rahbia Hussein (Geriatrics)	IV	Ross University	Manatee Memorial
Adam Hockensmith (Palliative Medicine)	IV	Tulane University	Mount Sinai
Quoc-Duy Dinh (Palliative Medicine)	IV	University of Texas	University of Colorado
Sara Tonini (Geriatrics & Palliative Medicine)	IV	St. George University	Atlantic Health
Patricia Lee (Geriatrics & Palliative Medicine)	V	University of IL	Ohio State

HEMATOLOGY/ONCOLOGY

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Maha Elsebaie	V	Ain Shams University Faculty of Medicine	John Stroger Hospital
Waqas Haque	IV	Un of Texas Southwestern Medical School At Dallas	New York University Langone
Ashley Hardeman	IV	Un of Illinois Col of Med	Baylor College of Medicine
Hannah Johnston	IV	Wake Forest University School Of Medicine	University of Chicago
Eric Perkey	III	University of Michigan Medical School	University of Chicago
Reid Shaw	IV	Un of Rochester School of Medicine and Dentistry	Loyola University Medical Center
Shrey Sindhwani	IV	University of Toronto, Faculty of Medicine	University of Toronto
Faith Abodunrin	V	University of Debrecen Medical School	Creighton University
Margarite Mattossian	IV	Tulane University School of Medicine	University of Chicago
Daniel Peiffer	IV	Loyola Un of Chicago, Stritch School of Medicine	University of Chicago
Sarah Poland	V	Ohio State University College of Medicine	NYU
Frank Wen	IV	University of Chicago Pritzker School of Medicine	University of Chicago
Sulin Wu	VI	Western Michigan Un Homer Stryker School of Med	Case Western
Sam Yates	V	Wake Forest University School Of Medicine	University of Chicago
Vivek Behera	IV	University of Pennsylvania	University of Chicago
Robert Cameron	IV	Medical University of South Carolina	University of Chicago
Joseph Cannova	IV	Loyola University	University of Chicago
Wenji Guo	IV	Johns Hopkins University	University of Chicago
Alexandra Rojek	V	UCSF	University of Chicago
Rafael Madero-Marroquin	VI	Tecnologico de Monterrey Escuela de Medicina	Mount Sinai
Gideon Dosunmu	V	Oba Okunade Sijuade College of Health Sciences	University of South Alabama

INFECTIOUS DISEASES AND GLOBAL HEALTH

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
John Flores	VIII	University of Texas, San Antonio	University of Illinois Chicago
Sabrina Imam	V	Loyola University	University of Chicago
Christopher Kaperak	V	Univeristy of Virginia School of Medicine	University of Chicago
Palak Patel	V	Chicago College of Osteopathic Medicine of Midwestern University	John H Stroger Hospital of Cook County
Eric Roessler	V	Louisiana State University School of Medicine in New Orleans	Rush University
Chad Hinkle	V	Cooper Medical School of Rowan University	Boston University Medical Center
Kaylie Miller	IV	University of Marland School of Medicine	UPMC Medical Education
Kritos Vasiloudes	IV	USF Health Morsani College of Medicine	HCA Healthcare/USF Morsani College of Medicine GME/HCA Florida Largo Hospital

NEPHROLOGY

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Gilad Guez	V	St. George's University School of Medicine Grenada	Lewis-Gale Medical Center
Meghan Gwinn	V	Michigan State University College of Human Medicine	Henry Ford Hospital
Nicholas Kowalczyk	V	University of Arkansas for Medical Sciences College of Medicine	University of Chicago
Ryan Song	V	Central Michigan University College of Medicine	Advocate Lutheran General Hospital
Meenhaj Kabir	IV	New York Institute of Technology College of Osteopathic Medicine	Riverside Medical Center
Ashley La	IV	University of Maryland School of Medicine	University of Chicago
Katherine Quinones Cruz	IV	Universidad Central del Caribe School of Medicine	University of Illinois at Chicago
Ali Shah	IV	Jinnah Sindh Medical University	The Wright Center for Graduate Medical Education

PULMONARY/CRITICAL CARE

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Nadeem Bandealy	IV	University of Wisconsin School of Medicine and Public Health	University of Chicago
Shan Guleria	V	University of Virginia School of Medicine	Rush University Medical Center
Ali Hammoud	IV	University of Michigan Medical School	McGaw Medical Center of Northwestern University
Puja Mehta (Critical Care 1 Year)	VI	New York Institute of Technology College	Residency: University of Buffalo Fellowship: Yale School of Medicine
Evan Merryman	IV	University of Michigan Medical School	Hospital of the University of Pennsylvania
Dylan Douglas	V	Loyola University Chicago Stritch School of Medicine	University of Chicago
Claire Smith	V	University of Kansas School of Medicine	The University of Kansas Health System
Hanna Vollbrecht	V	University of Chicago	Brigham and Women's Hospital Boston, MA
Jack Zhao	V	Yale School of Medicine	University of Chicago
Nicholas de la Rua	VI	Louisiana State University	Rush University
Christopher Nemeh	VII	University of Illinois	Baylor University
August Sigelko	VII	Wayne State School of Medicine	Boston University
Michael Torres Lizardi	VI	University of Puerto Rico	Weill Cornell/New York Presbyterian Medical Center
Kevin Buell	VII	Imperial College	Vanderbilt University
Mario Fonseca-Paricio	VII	Thomas Jefferson University	Thomas Jefferson University
Mark Tancredi	VII	Loyola University	Loyola University

Sleep Medicine

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Jin Young Hwang	IV	Yonsei University College of Medicine	Louis A. Weiss Memorial Hospital
Franco Laghi	VII	University of Limerick Graduate Entry Medical School	Residency: Sinai Hospital Baltimore Fellowship: Temple University Hospital
Joshua Taylor	VI	University of Ottawa Faculty of Medicine	McGill University

Interventional Pulmonology

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Shreya Podder	VII	Virginia Commonwealth University Richmond, VA	Inova Fairfax Medical Campusfalls Church, VA

Rheumatology

FELLOW	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Asha Asthana	IV	Chicago Medical School at Rosalind Franklin University of Medicine & Science	Rush University
Ailia Ali	IV	St. George's University School of Medicine	Wake Forest University
Michael Macklin	V	University of Pittsburgh	University of Pittsburgh
Chelsea Thompson	V	University of Utah	Northwestern University

GRADUATES

INTERNAL MEDICINE

NAME	POSITION	INSTITUTION
Tess Allan	Fellow	Duke
Ahmad Allaw	Fellow	USC
Chukwunedum Aniemeka	Chief Resident	UChicago
Nadeem Bandealy	Fellow	UChicago
Erika Belmont	Fellow	WashU
Carlton Christian	Fellow	UCSF
Nia Feaster	Hospitalist	University of Miami
Nicole Gras	Fellow	Cornell
Hannah Johnston	Fellow	UChicago
Layne Keating	Chief Resident	UChicago
Jannel Liu	Fellow	Vanderbilt
Rachel Lombard	Fellow	UIC
Michael Mayer	Fellow	Cornell
Geetika Mehra	Hospitalist	UCSF
Bruk Mekonen	Fellow	Penn
Elena Michaels	Fellow	Dana Farber
Muhammad Mire	Fellow	UCSD
Joyce Lucidivine Ngouchet Nouhossi	Fellow	UTSW
Meaghan O'Hara	Chief Resident	UChicago
Amanda Ojugbeli	Hospitalist	Northwell Health
Stephan Olaya	Hospitalist	UChicago
Srinivas Panchamukhi	Fellow	Northwestern
Hannah Pursley(Matthews)	General Internal Medicine	UChicago
Christopher Rodman	Fellow	Yale
Rukmini Roy	Fellow	UChicago
Navika Shukla	Fellow	UChicago
Mikail Siddiki	Fellow	UChicago
Alexander Small	Hospitalist	UChicago
Varun Subashchandran	Chief Resident	UChicago
Hans Vitzthum von Eckstaedt	Fellow	Washington

PRELIMINARY

NAME	POSITION	INSTITUTION
Lauren Ciulla	Resident	UChicago
Zaina Zayyad	Resident	UChicago
Philip Zhou	Resident	UChicago

CARDIOLOGY

NAME	POSITION	INSTITUTION
Shirlene Obuobi	Assistant Professor	Brown LifeSpan Cardiovascular Institute
Joseph Weber	General Cardiologist	Northwestern Medicine Central DuPage Hospital
Jiho Han	Interventional Fellow	Columbia University
Maxine Tang	Imaging Fellow	Northwestern Hospital
Martin Gruca	Cardiac Imaging Fellow	University of Chicago
Jonathan Lattell	Interventional Fellow	University of Chicago
Anthony Kanelidis	Assistant Professor	University of Chicago
Leo Gozdecki	Assistant Professor	University of Chicago
Amulya Gampa	Electrophysiologist	Midwest Cardiovascular Institute
Dipayon Roy	Electrophysiologist	Kaiser Permanente in San Francisco
Brian Conway	Interventional Cardiologist	Texas Cardiovascular Specialists in Dallas
Adham Karim	Interventional Cardiologist	Advocate Christ Hospital
Maria Latz	Clinical Cardiologist	UChicago Advent Health Hinsdale Hospital
Iva Minga	General Cardiologist/Advanced Cardiac Imaging Cardiologist	Advocate Good Samaritan Hospital

DERMATOLOGY

NAME	POSITION	INSTITUTION
Brooke Cui	Clinical Associate	NorthShore University
Ekene Ezenwa	Assistant Professor	Northwestern University
Umar Sheikh	Private Practice	The Dermatology Specialists

DERMATOPATHOLOGY FELLOW

NAME	POSITION	INSTITUTION
Maria Estela Martinez Escala, MD, PhD	Assistant Professor	University of Chicago

EMERGENCY MEDICINE

NAME	POSITION	INSTITUTION
Atilio Atencio	Attending	Inova Fairfax
Nicole Blum	Attending	Carle Foundation Hospital
Nolan Broussard	Attending	Advocate Christ Medical Center/ Private Practice
Emmanuel Cordova	Attending	St. Alexius in Hoffman Estates
Sarah Follman	Fellowship	Emergency Medicine, Yale
Larissa Fomum Mugri	Attending	Atrium Health Cabbarus
Joshua Harkless	Attending	Vituity SSM
Catherine Havemann	Fellowship	University of North Carolina
Cecelia Johnson-Sasso	Attending	USACS
Sally Madiba	Attending	Northwestern Medical Group
Annie Murphey	Attending	HCA HealthOne Swedish
Coralie Pardo	Attending	Rush
Colin Reinhart	Attending	Ascension St. Thomas River Park - TN
Patrick Sammons	Attending	Kaiser
Sean Thompson	Fellowship	University of Chicago
Kaley Waring	Attending	Advocate Sherman
Trenika Williams	Fellowship	Harvard

ENDOCRINOLOGY, DIABETES AND METABOLISM

NAME	POSITION	INSTITUTION
Karishma Chopra	Attending Physician	Northwell Health Physicians Partners, Great Neck, NY
Leanne Duge	Clinical Associate of Medicine	University of Chicago

PEDIATRIC ENDOCRINOLOGY

NAME	POSITION	INSTITUTION
Naiomi Gunaratne	Attending Physician/ Clinical Assistant Professor	Northwestern University Feinberg School of Medicine

GASTROENTEROLOGY, HEPATOLOGY AND NUTRITION

NAME	POSITION	INSTITUTION
Adar Zinger		Hadassah Medical Center, Jerusalem, Israel
Yusuke Miyatani	Internal Medicine Residency	University of Hawaii
Joelle St-Pierre	Academic Gastroenterologist	Univesity of Calgary, Albert Canada
Shifa Umar	Assistant Professor	Allegheny Health Network, Pitts-burgh, PA
Grace Kim	Advanced Endoscopy Fellow	University of Chicago
Ariel Bowen Sims	Gastroenterologist	Gastro Health, Miami, FL
Hannah Roth	Transplant Hepatology Fellow	University of Chicago
Alan Hutchison	Advanced Gastroenterology Fellow	University of Chicago
Paige McLean Diaz	Assistant Professor	Brown Medicine, Providence, RI

GERIATRICS AND PALLIATIVE MEDICINE

NAME	POSITION	INSTITUTION
Samantha Ing (Geriatrics)	Assistant Professor	University of Chicago
Thomas Haferkamp (Geriatrics)	Assistant Professor	University of Chicago
Margaret Putman (Palliative Medicine)	Associate Program Director	University of Chicago
Melissa Marinelli (Palliative Medicine)	Clinical Associate of Palliative Care	University of Chicago
Abraham Lara-Pacheco (Palliative Medicine) Kaiser Permanente		Palliative Care Physician

HEMATOLOGY/ONCOLOGY

NAME	POSITION	INSTITUTION
Jennifer Cooperrider	Assistant Professor	University of Chicago
Kunal Desai	Medical Director, AbbVie	UI Health
Jacobi Hines	Assistant Professor	Northwestern University
Nabiel Mir	Instructor	University of Chicago
Athalia Pyzer	Associate Medical Director, AbbVie Clinical Pharmacology Research Unit	University of Colorado
Gregory Roloff	Assistant Professor	University of Chicago
Austin Wesevich	Instructor	University of Chicago

INFECTIOUS DISEASES AND GLOBAL HEALTH

NAME	POSITION	INSTITUTION
Anna Czapar	Assistant Professor	Loyola University
Sabrina Imam	Instructorship & 3rd year fellow in ID on the Transplantation ID Physician-Scientist Track	University of Chicago

NEPHROLOGY

NAME	POSITION	INSTITUTION
Louis G. Baeseman	Assistant Professor	University of Chicago
Alexander Hlepas	Private Practice	Endeavor Health
Goutham Kondapi	Private Practice	NANI
Nader Ismail	Private Practice	NANI

PULMONARY/CRITICAL CARE

NAME	POSITION	INSTITUTION
Gaurav Ajmani	Interventional Pulmonology Fellowship	John Hopkins University
Kavitha Selvan	Assistant Professor	Northwestern University

SLEEP MEDICINE

NAME	POSITION	INSTITUTION
Nathan Nowalk	T32 Pulmonary/Critical Care Fellow	University of Chicago
Gautam Ramesh	Sleep Medicine Physician	Locum Tenens
Tony Rosenberg	Neuro/Sleep Attending	Endeavor Health

INTERVENTIONAL PULMONOLOGY

NAME	POSITION	INSTITUTION
Prince Ntiamoah	Pulmonologist	Aurora BayCare Medical Center

RHEUMATOLOGY

NAME	POSITION	INSTITUTION
Ana Belen Arevalo Molina	Clinical Instructor	Massachusetts General Hospital
John Byun	Staff Rheumatologist	Community Healthcare System

DIVERSITY, EQUITY AND INCLUSION COMMITTEE

The mission of the Department of Medicine, Diversity, Equity and Inclusion (DEI) Committee is to promote inclusion through the recruitment, retention, mentorship and promotion of students, housestaff and faculty to foster an inclusive climate and to assist in the delivery of equitable health care practices for our patients and communities. With leadership from Doriane Miller, MD, Keme Carter, MD and Monica Peek, MD, MPH, MSc accomplishments in FY24 included collaborating with the Internal Medicine Residency Program and developing videos highlighting why the University of Chicago is a great place to learn and work. Also noteworthy were enhanced recruitment and outcome efforts for trainees. For more information regarding University of Chicago's commitment to Diversity and Inclusion, please visit the website: https://provost.uchicago.edu/statements-diversity

Monica Peek, MD, MPH, MSc

Doriane Miller, MD

The Department of Medicine DEI Committee enjoyed additional successes in FY24:

- Held a Meet and Greet for **URM incoming housestaff**
- **Keme Carter, MD** was selected as Faculty Marshall for the Pritzker School of Medicine Divisional Academic Ceremony
- **Monica Peek, MD, MPH, MSc** was elected to the Association of American Physicians and presented the Distinguished Professor Health Equity Keynote Lecture at the Society of General Internal Medicine Annual Meeting
- **Marshall Chin, MD, MPH** was the recipient of the Robert J. Glaser Award from the Society of General Internal Medicine
- **Doriane Miller, MD** was inducted as a Alpha Omega Alpha Faculty Honoree
- **Abdullah Pratt, MD** was named the inaugural Faculty Director of Community Engagement for the Pritzker School of Medicine
- Hosted DOM Grand Rounds 4/2/2024 with UChicago invited speakers **Iris Romero, MD, David Meltzer, MD, PhD, Stephen Estime, MD, Monica Peek, MD, MPH, MSc** and **James Williams, MBA,** "The Role of Diversity at University of Chicago Medicine: Internal Reflections/External Validation"

The Department of Medicine would like to thank Doriane Miller, MD for all her hard work and efforts as the Department's Vice Chair for Diversity, Equity and Inclusion and congratulate her in her new role as Vice Dean for Diversity, Equity and Inclusion for the Biological Sciences Division. Dr. Miller has been an exceptional leader and mentor for URM junior faculty and trainees, she has partnered with the South Side community and served as an advocate to improve the care of underserved communities. Monica Peek, MD, MPH, MSc will serve as the Department's Vice Chair for Diversity, Equity and Inclusion effective July 1, 2024.

WOMEN'S COMMITTEE

The Department of Medicine's Women's Committee serves as an important mechanism for networking, mentorship, professional development, awards nomination and advocacy for our female faculty. With leadership from Julie Oyler, MD, the Committee is comprised of women from multiple sections within the Department, all of whom are amazing leaders, scientists, clinicians and educators in their own right.

Anna Volerman, MD

Julie Oyler, MD

The DOM Women's Committee enjoyed several successes in FY24:

- Published two issues of the **"Women at the Forefront"** newsletter, highlighting the accomplishments of women faculty/trainees.
- Hosted a Mentoring Event with **Dr. Dolores Shoback**, Professor of Medicine, University of California-San Francisco on 10/2/23
- Hosted DOM Grand Rounds 1/9/24 with invited speaker **Dr. Caprice Greenberg**, Chair of UNC School of Medicine Department of Surgery who spoke on "Coaching for Continuous Professional Development"
- Hosted Guest Speaker **Janet Bickel** on May 20, 2024 to present on "Discussing the Undiscussable with the Powerful"
- **Julie Oyler, MD** graduated from the Executive Leadership in Academic Medicine Program
- **Sonali Smith, MD** accepted as a 2024-2025 Executive Leadership in Academic Medicine Fellow
- Twenty-four women faculty named **Castle Connolly's Exceptional Women in Medicine**
- **Twenty-eight women faculty** named Chicago Magazine Top Doctors
- **Megan Huisingh-Scheetz, MD, MPH, Valerie Press, MD, MPH, Sonali Paul, MD, MS, Kimberly Trotter, MD** and **Julie Oyler** presented a poster at the Women in Medicine Summit on "Paying it Forward: Assessing the impact of nominating deserving women for awards on confidence level & future behavior of nominees"

The Department would like to thank Julie Oyler, MD for all of her hard work and efforts as Chair of the Department's Women's Committee and congratulate her in her new role as the Chair of the newly established Biological Sciences Division's Women's Committee. Dr. Oyler served as Chair of the Department's Women's Committee since 2017 and has been an exceptional leader, mentor and role model to women in the department and across the institution. Anna Volerman, MD will serve as Chair of the Department's Women's Committee effective July 1, 2024.

MEDICINE WITH HEART

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Cover Design by Joel Matos
Photography by Eddie Quinones at eddiequinones.com,
Ray Abercrombie at crimeandkindness.co and UCM Communications