



THE UNIVERSITY OF
CHICAGO
UChicago Medicine

Department
of Medicine

DEPARTMENT OF MEDICINE **ANNUAL REPORT**

DEDICATION,
DETERMINATION
AND
DISCOVERY

2020



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CHAIRMAN'S MESSAGE



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

DEDICATION, DETERMINATION AND DISCOVERY

I am pleased to present to you the 2021 Department of Medicine Annual Report entitled "Dedication, Determination and Discovery". Since the onset of the COVID pandemic, our accomplishments as a Department have been truly remarkable. Through the dedication and determination of our faculty, trainees and staff, the Department assumed responsibility in every conceivable way to help the institution manage the influx and care of COVID patients in the emergency room, on the inpatient services, in the ICUs and in the clinic, and the challenges that resulted from the impact that the pandemic had on our tripartite mission. Every Section contributed their expertise to treating patients and advancing the research and educational programs during this pandemic. Some examples of these tremendous efforts are highlighted below.

- Key contributions to pandemic planning and implementation for the medical center, the University and the State of Illinois
- Creation of two incremental care models in the Emergency Room, and expanded ICU and inpatient services to care for the influx of COVID patients
- Development of a COVID specific Transitions Clinic and a Post COVID Recovery Clinic
- Rapid implementation of telemedicine and training of faculty and trainees on the new platform
- Activation of several impactful clinical trials including remdesvir, tocilizumab, hydroxychloroquine for COVID treatment and participation in the NIH sponsored Moderna, and Janssen vaccine trials
- Highly visible COVID research on the role of vitamin D in COVID susceptibility and treatment, vaccine development, and the need for mechanical ventilation through the use of high flow nasal cannulas and helmet based ventilators
- Managed the shutdown and safe reopening of our research laboratories

This past academic year the Department continued to achieve remarkable success in every aspect of our tripartite mission. Medicine investigators successfully competed for a record high of \$172M in total cost research funding, and continued to translate basic research into clinical practice with multiple seminal discoveries, publishing over 2,000 impactful papers with dozens in high profile journals, and conducting nearly 1,700 clinical research studies. Our expertise was acknowledged with USNWR recognition for our clinical programs in Gastroenterology, Cancer, Diabetes/Endocrinology and Pulmonary Medicine, and NIH top 15 recognition in research funding.

OTHER NOTABLE DEPARTMENTAL HIGHLIGHTS INCLUDE:

- The appointment of 8 new administrative leaders: **Raghu Mirmira, MD, PhD** as Vice Chair of Translational Research; **Jing Chen, PhD** as Associate Vice Chair of Translational Research. **Sonali Smith, MD** as Chief, Section of Hematology/Oncology; **Christine Babcock, MD** as Interim Chief of the Section of Emergency Medicine; **Jennifer Pisano, MD** as Interim Chief of the Section of Infectious Diseases & Global Health. Within our clinical programs, **Sean Pinney, MD** as the Director of the Advanced Heart Failure Program and Co-Director of the Heart and Vascular Center; **Michael Bishop, MD** as the Director of the Davis and Etta Jonas Center for Cellular Therapy, and **Uzma Siddiqui, MD** as the Director for the Center for Therapeutic Endoscopy
- Four institutional leadership appointments: **Vineet Arora, MD** as Dean for Medical Education; **Yoav Gilad, PhD** as Dean for Biomedical and Health Informatics; **Milda Saunders, MD** as Assistant Dean for Multicultural Affairs; **Tipu Puri, MD, PhD** as Associate Chief Medical Officer for Clinical Operations
- Three named professorships: **Eric Pamer, MD** as the Donald F. Steiner Professor; **Roberto Lang, MD** as the A.J. Carlson Professor and **Jing Chen, PhD** as the Janet Davison Rowley Distinguished Service Professor in Cancer Research
- National and state recognition for the outstanding work of our faculty. For example, **Funmi Olopade, MD** was elected to the National Academy of Sciences; **Michelle Le Beau, PhD** was the recipient of the Henry M. Stratton Medal from the American Society of Hematology; **David Rubin, MD** was selected as the recipient of the Sherman Prize by the Bruce & Cynthia Sherman Charitable Trust; **Stacie Levine, MD** received the Gerald Holman Distinguished Service Award from the American Academy of Hospice and Palliative Medicine, **Sonali Smith, MD** received the 2021 ASCO Excellence in Teaching Award, **John McConville, MD** was selected by the ACGME as the recipient of the Parker J. Palmer Courage to Teach Award and **Helen Te, MD** received the American Society of Transplantation Physician of Distinction Award
- Highly successful residency and fellowship match
- Cultivation of a new generation of translational scientists via our Coggeshall Fellow and Pathway to Independence instructor appointments
- Increased cultural awareness and enhanced diversity, equity and inclusion efforts

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 of our faculty, trainees, and staff for their amazing contributions to our success over the past academic year.

ORGANIZATION

	Chairman, Department of Medicine	Everett E. Vokes, MD
Executive Committee:	Vice Chair of Appointments & Promotions Vice Chair of Clinical Operations Vice Chair of Education Vice Chair of Faculty Development Vice Chair of Research Vice Chair of Research (Basic) Vice Chair of Research (Translational) Associate Vice Chair - Appointments & Promotions Associate Vice Chair - Ambulatory Operations Associate Vice Chair - Clinical Research Associate Vice Chair - Quality Associate Vice Chair - Translational Research Executive Administrator (interim)	Steven White, MD Matthew Sorrentino, MD John McConville, MD Deborah Burnet, MD Yoav Gilad, PhD Bana Jabri, MD, PhD Raghu Mirmira, MD, PhD Dorothy Hanck, PhD Lisa Vinci, MD Hedy Kindler, MD Andrew Davis, MD Jing Chen, PhD James Manthey
Section Chief Council:	Biomedical Data Science Cardiology Dermatology Emergency Medicine Endocrinology, Diabetes & Metabolism Gastroenterology, Hepatology & Nutrition General Internal Medicine Genetic Medicine Geriatrics & Palliative Medicine Hematology/Oncology Hospital Medicine Infectious Diseases & Global Health Nephrology Pulmonary/Critical Care Rheumatology	Robert Grossman, PhD James Liao, MD Diana Bolotin, MD, PhD Christine Babcock, MD (interim) Ronald Cohen, MD David Rubin, MD Deborah Burnet, MD Yoav Gilad, PhD Stacie Levine, MD Sonali Smith, MD David Meltzer, MD, PhD Jennifer Pisano, MD (interim) Arlene Chapman, MD Gokhan Mutlu, MD Marcus Clark, MD
Committee Chairs:	Diversity Committee Women's Committee	Monica Vela, MD Julie Oyler, MD
Chief Residents:	2021 Chief Residents	Jennifer Cooperider, MD Stephanie Kelly, MD Jonathan Lattell, MD Hannah Roth, MD
	2022 Chief Residents	Marie Dreyer, MD Michael Jacobs, MD Ross McMillan, MD Kathleen Wiest, MD
Senior Management:	Budget and Finance Budget and Finance Clinical Revenue and Billing Clinical Research Support Clinical Trials Financial Group Human Resources (Academic) Human Resources (Staff) Information Systems Research Administration Research Strategy & Development	Sunila Goel Jim Skish Shefali Patel Allison Buonamici Ashley Hoambrecker Sharon Frazier Chris Yaros Max Marchevsky Katie Pizer Michelle Wright

BY THE NUMBERS

33 Faculty

15 Subspecialty Sections

FY21 CLINICAL ACTIVITY

1,252,578 RVU's
193,842 Onsite Visits
61,968 Emergency Room Encounters
35,028 Offsite Visits
20,638 Telemedicine Visits
16,362 Admissions

TRANSPLANT CASES 418

#15 in NIH Funding (2020)
\$125M Total NIH Awards
\$21.0M in Clinical Trial Earnings
\$171.6M Total Sponsored Research Awards & Clinical Trials Earnings
8 NIH Program Project Grants

RESEARCH ACTIVITY

EDUCATIONAL ACTIVITY

309 Trainees
177 Residents
132 Subspecialty Fellows

8 NIH T32 TRAINING GRANTS

SPECIAL AWARDS 2021

Elected Fellows of the American Academy of Arts and Sciences

Graeme Bell, PhD
Olufunmilayo Olopade, MD

Elected Members of the Association of American Physicians

Marisa Alegre, MD, PhD
Michael A. Becker, MD (Emeritus)
Antonio Bianco, MD, PhD
Eugene Chang, MD
Arlene Chapman, MD
Marshall Chin, MD
Marcus Clark, MD
Fredric Coe, MD
Thomas Gajewski, MD, PhD
Alan Leff, MD (Emeritus)
Bana Jabri, MD, PhD
James Liao, MD
David Meltzer, MD, PhD
Gokhan Mutlu, MD*
Olufunmilayo Olopade, MD
Eric Pamer, MD
Kenneth Polonsky, MD
Mark J. Ratain, MD
Samuel Refetoff, MD (Emeritus)
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 (Emeritus)
Antonio Bianco, MD, PhD
Eugene Chang, MD
Marcus Clark, MD
Fredric Coe, MD
Elbert Huang, MD, MPH
Thomas Gajewski, MD, PhD
Lucy Godley, MD, PhD
Harvey Golomb, MD
James Liao, MD
Alan Leff, MD (Emeritus)
David Meltzer, MD, PhD
Raghavendra Mirmira, MD, PhD
Gokhan Mutlu, MD
Olufunmilayo Olopade, MD
Eric Pamer, MD
Kenneth Polonsky, MD
Samuel Refetoff, MD (Emeritus)
Julian Solway, MD
Everett Vokes, 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
Kenneth Polonsky, MD

American College of Physicians Masters

Mark Siegler, MD

Department of Medicine Named Professorships

Vineet Arora, MD - Herbert T. Abelson 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 Professor in Healthcare Ethics
Thomas Gajewski, MD, PhD - AbbVie Foundation Professor
Lucy Godley, MD, PhD - Hospira Foundation Professor in Oncology
Robert Gibbons, PhD - Blum Riese Professor
Harvey Golomb, MD - Lowell T. Coggshall Professor
Robert Grossman, PhD - Frederick H. Rawson Distinguished Service Professor
Bana Jabri, MD, PhD - Sarah & Harold Lincoln Thompson Professor
Roberto Lang, MD - A.J. Carlson Professor *
James Liao, MD, PhD - Harold H. Hines, Jr. Professor
Michelle Le Beau, PhD - Arthur and Marian Edelstein Professor
David Meltzer, MD, PhD - Fanny L. Pritzker Professor
Olufunmilayo Olopade, MD - Walter L. Palmer Distinguished Service Professor
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
Mark Siegler, MD - Lindy Bergman Distinguished Service Professor
Keyoumars Soltani, MD - Allan L. Lorincz Professor
Sonali Smith, MD - Elwood V. Jensen Professor
Julian Solway, MD - Walter L. Palmer Distinguished Service Professor
Walter Stadler, MD - Fred C. Buffett Professor
Wendy Stock, MD - Anjuli Seth Nayak Professor in Leukemia
Eve Van Cauter, PhD - Frederick H. Rawson Professor
Everett Vokes, MD - John E. Ulmann Professor

*Elected/Named in FY22

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)

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)
Fredric 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)

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)

Leif B. Sorensen, MD, PhD Faculty Research Award (Cont.)

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)

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)

Biological Sciences Division Awards

- Distinguished Investigator Award: Murat Eren, PhD (Junior Award)
- Distinguished Clinician Awards: Carol Semrad, MD (Senior Award) and Lauren Gleason, MD (Junior Award)
- Distinguished Leader in Diversity and Inclusion: Christine Babcock, MD and Eileen Dolan, PhD
- Distinguished Leader in Program Innovation: Anna Zisman, MD
- Distinguished Educator/Mentor: Jeanne Farnan, MD and Mark Siegler, MD
- Distinguished Leader in Community Service and Advocacy: Elizabeth Tung, MD (Junior Award) and Katherine Thompson, MD (Senior Award)
- Gold Key Awards: Halina Brukner, MD and Michelle Le Beau, PhD
- Michael Reese Award: Michelle Le Beau, PhD

Faculty Highlight:



**Victoria Holloway
Barbosa, MD, MPH, MBA**

Victoria Barbosa, MD, MPH, MBA, associate professor of medicine (Section of Dermatology), is a clinician and researcher whose expertise is in the field of alopecia and diseases of the scalp. She has a unique career path which has spanned research and leadership in industry in addition to patient care in academic and private practice settings. Her work has been characterized by clinical excellence as well as research that has helped to move forward the understanding of hair and hair loss, particularly for women of African descent.

Dr. Barbosa began her research career at the international cosmetics company L'Oréal where she built the L'Oréal Institute for Ethnic Hair and Skin Research. Her research at L'Oréal mainly focused on understanding differences in the physical and mechanical properties of hair of people of different ethnicities, looking at novel approaches to achieve chemical alteration of hair structure to change fiber characteristics and examining African American women's experiences with hair care, hair loss and grooming behaviors. In her seven years there she rose to the level of Vice President of Research and Development where she led a team of chemists, biologists and physicists. After leaving industry, Dr. Barbosa spent a brief time on the faculty at Rush University before building a successful private practice which she ran for 9 years. Her clinical expertise has been recognized with recognition in the *Chicago* magazine's list of Top Doctors six times.

Returning to academics in 2019, Dr. Barbosa joined the Section of Dermatology to resume her research and teaching activities while continuing her clinical work. Her current research focuses on health seeking behaviors of people with hair loss, with an eye towards developing programs and educational materials that address the delays in care that are commonly seen in alopecia patients, particularly in African American women. She is also researching the efficacy of online coursework as a tool for the education of resident physicians in the area of diagnosing and managing alopecia in African American women.

Educating physicians and patients is a priority and passion for Dr. Barbosa. She has lectured extensively both nationally and internationally at dermatology meetings on the topics of alopecia, dermatology in skin of color and cosmetics. She has also published textbook chapters and research in these areas. She has co-edited the textbook *Skin of Color: A Practical Guide to Dermatologic Diagnosis and Treatment* and co-authored the lay-

person's book, *The Readers Digest Guide to Skin Care*. She also founded the Ethnic Hair and Skin Research Symposium Series which included four biannual international conferences that were the first to bring together researchers from academics, clinical practice and industry to present research selected through an application and peer-review process in what was then a newly recognized area of dermatology. She also chaired a Patient-Doctor Conference for the Cicatricial Alopecia Research Foundation.

Dr. Barbosa has held leadership positions in several dermatological organizations, and in other medical and educational institutions. She is currently the secretary of the Illinois Dermatological Society and a scientific advisor to the Cicatricial Alopecia Research Foundation. She is a past president of the Chicago Dermatological Society where she served on the governing Plans and Policy Committee for ten years. She was a founding board member of the Skin of Color Society where she served as secretary. She previously served on the Board of Trustees of Dillard University in New Orleans for twelve years, and she also spent approximately ten years on the board of National Medical Fellowships, an organization that provides scholarships and experiences to underrepresented minority medical students. Dr. Barbosa is also a member of the American Academy of Dermatology, the National Medical Association, and the American Hair Research Society and has held committee appointments in each of these organizations. Dr. Barbosa's contributions to the field of dermatology have been recognized by elected membership to the American Dermatological Association.

Since joining the faculty, Dr. Barbosa has continued her spirit of service and leadership. She serves on the Department of Medicine Women's Committee and spearheaded the development of a Diversity Committee for the Section of Dermatology. She serves on Pritzker's Admissions Committee and is now one of the committee chairs. She also serves on Pritzker's Committee on Academic Promotions.

Dr. Barbosa holds a bachelor's degree from Harvard University and her medical degree cum laude from the Yale University School of Medicine, where she was inducted into Alpha Omega Alpha. She also earned a Master's Degree in public health from the Johns Hopkins School of Hygiene and Public Health and a MBA from Northwestern University's Kellogg School of Management. She is a graduate of the Robert Wood Johnson Clinical Scholars Program.

Faculty Highlight:



**Marina Chiara
Garassino, MBBS**

Marina Chiara Garassino, MBBS, is an internationally recognized expert in the treatment of thoracic malignancies. She joined the faculty of the Department of Medicine in April 2021 as professor of medicine in the Section of Hematology/Oncology. Prior to her arrival, Dr. Garassino served as chief of the Thoracic Oncology Unit at Istituto Nazionale dei Tumori in Milan, Italy where she led the clinical and translational research efforts in advanced and locally advanced non-small cell lung cancer (NSCLC), small cell lung cancer (SCLC), mesothelioma, and thymic malignancies.

As an active clinical investigator, Dr. Garassino's work is focused on investigating targeted agents, immunotherapies to treat thoracic malignancies and developing oncologic precision medicines and immunotherapies, and has advanced the global standard of care in several areas. Among her impactful discoveries she and colleagues established that EGFR-targeted therapy with erlotinib is inferior to chemotherapy with docetaxel in patients with previously-treated EGFR NSCLC. This work helped to clarify the role of EGFR-targeted therapies in the second-line setting and specifically for patients without EGFR mutations, refining the treatment paradigm. Dr. Garassino has also conducted impactful investigations that furthered the understanding of the role of immunotherapy with or without chemotherapy in advanced NSCLC. She and her colleagues discovered that blocking the PD-1 pathway with pembrolizumab in addition to chemotherapy showed a greater survival benefit among patients with metastatic nonsquamous NSCLC without EGFR or ALK mutations. These findings changed the treatment paradigm of and treatment guidelines for lung cancer, promoting immunotherapy plus chemotherapy as first-line treatment for patients with this type of cancer. Dr. Garassino has led or participated in a multitude of other clinical trials investigating novel therapeutic regimens and has been instrumental in examining potential biomarkers for the treatment of lung cancer.

Dr. Garassino graduated from the Medical School of Università degli Studi of Milan, Italy, where she also completed her training in medical oncology. After a fellowship at the Christie's Hospital in Manchester (UK), she served as a physician oncologist in prestigious Italian cancer centers. She has authored over 200, peer-viewed publications, including *New England Journal of Medicine*, *Lancet Oncology*, *Journal of Clinical Oncology*, *JAMA Oncology*, *Annals of Oncology*, *Journal of Thoracic Oncology and Cancer Immunology and Immunotherapy*.

Prior to her arrival to Chicago, Dr. Garassino was at the heart of the COVID-19-outbreak in the Lombardy region of Italy. She established and brought together an international group of physicians and investigators to study the impact of COVID-19 on patients with lung cancer, enrolling more than 1500 patients into a registry. The Thoracic Cancers International COVID-19 Collaboration, or TERAVOLT includes 1541 institutions from 18 countries and data from their work has been published in *Lancet Oncology and Cancer Cell*.

Dr. Garassino is an active member of European Society of Medical Oncology (ESMO), the American Society of Clinical Oncology (ASCO), the International Association for the Study of Lung Cancer, and others. She has been invited to speak hundreds of times at international congresses, symposia, meetings, including as a discussant and presenter at plenary sessions at ASCO, and as chair of multidisciplinary sessions at ESMO. Dr. Garassino also serves as chair of the National Societies Committee for ESMO. She is the founder of the AIOM GIOVANI (Italian Young Oncologist Committee) and founder and president of Women for Oncology in Italy. Dr. Garassino has mentored numerous fellows, many of whom have an international standing in the thoracic cancer research community.

Faculty Highlight:



Sean Pinney, MD

Sean Pinney, MD is an internationally renowned expert in heart failure and cardiac transplantation. In July 2020 he joined the faculty as professor of medicine in the Section of Cardiology, and as co-director of the Heart & Vascular Center and director of the Advanced Heart Failure, Transplant and Mechanical Circulatory Support Program at the University of Chicago Medicine.

Dr. Pinney attended Georgetown University where he received both his undergraduate and medical degrees. He completed residency training at Boston's Beth Israel Deaconess Medical Center and fellowships in cardiology, heart failure & transplantation at Columbia University. In 2004, he joined the faculty of the Icahn School of Medicine at Mount Sinai where he directed the Advanced Heart Failure & Cardiac Transplant Program. In 2015, he was appointed Director of Heart Failure and Transplantation for the Mount Sinai Health System until his recruitment to the Department of Medicine.

Dr. Pinney's research interests align with his clinical work in heart failure and transplantation. He has led both NIH and industry-sponsored trials in the areas of heart failure, cardiac transplantation and mechanical circulatory support. His early work focused on the pathophysiology and treatment of cardiac allograft vasculopathy (CAV). This included a seminal paper on the use of sirolimus to prevent CAV progression (*Circulation*, 2003), which ushered in a new therapeutic advance for heart transplant patients. His later work focused on understanding the clinical outcomes of patients supported with mechanical circulatory support devices, especially continuous-flow left ventricular assist devices (CF-LVAD). This work included an analysis of the INTERMACS registry to better characterize and understand the risk of pump thrombosis associated with the HeartMate II LVAS which was critical in furthering the design of future devices (*J Heart Lung Transplant*,

2014). Dr. Pinney served as site co-investigator and the national co-chair of the medical management subcommittee for the MOMENTUM-3 study, the largest trial of CF-LVADs to date. Together with a colleague, he characterized changes in blood pressure during CF-LVAD support and their association with clinical outcomes (*J Heart Lung Transplant*, 2020). Dr. Pinney has also conducted heart transplant research that has included participation in several NIH trials of novel immune-modulating drugs such as bortezomib and tocilizumab, and the use of novel molecular diagnostic tests like donor-derived cell free DNA to detect allograft rejection and injury.

Dr. Pinney serves on the editorial boards of *Journal of the American College of Cardiology (JACC)*, *JACC Heart Failure*, *the Journal of Heart & Lung Transplantation* and the *Journal of Cardiac Failure*. He serves on the Board of Directors for the American Society of Transplantation, and is past president of the New York Cardiothoracic Transplant Consortium. Dr. Pinney has served on the New York American Heart Association Board of Directors, the Greater New York Geriatric Cardiology Consortium and the medical advisory board for the New York Organ Donor Network. While in New York Dr. Pinney was named to Castle Connolly's NY Metro Area Top Doctor's list for 12 consecutive years and was the recipient of the 2017 Cullman Family Award for Excellence in Physician Communication.

As a scholar, Dr. Pinney has published over 170 original papers, review articles and book chapters. As an educator, he has been a frequent CME course director and has been invited to lecture throughout the United States and around the world. As a mentor, Dr. Pinney has guided the career development of numerous fellows many of whom now direct their own programs. He is a past recipient of Mount Sinai's Simon Dack Award for outstanding teaching and contributions to the cardiology training program.

Faculty Highlight:



Jing Chen, PhD

Jing Chen, PhD, a visionary scientist and international leader in the area of cancer metabolism, joined the Department of Medicine, Section of Hematology/Oncology in August 2020. In the year since his arrival, he has been honored by President Robert Zimmer as the first Janet Davison Rowley Distinguished Service Professor in Cancer Research, and was appointed as Associate Vice Chair of Translational Research for the Department of Medicine. Dr. Chen also serves as the inaugural director of the newly established Cancer Metabolic Research Center and director of Basic and Translational Research in the Section of Hematology/Oncology.

Dr. Chen is a leader in the signaling and cancer metabolism fields and has made major contributions to the leukemia field and to solid tumor biology resulting in a better understanding of cancer metabolism and improved clinical outcomes. He has uncovered novel insights into the links between signaling and metabolism, using innovative studies in cellular/organismal systems. This includes groundbreaking work linking the BRAF and IDH mutant oncoproteins to signaling and metabolism. His work on mutations in leukemia has helped to establish that alternative pathways and metabolic factors influence the leukemia pathogenesis and disease development, and thus provide new insights in development of novel anti-leukemia therapies. He also works to decipher mechanistic bases underlying the pathogenic links between diets and particular oncogenic mutations by exploring the pro- and anti-tumor effects of diet-derived substances on tumors with specific genetic backgrounds. Dr. Chen's cutting edge translational investigations have the potential to translate impactful science from bench to bedside.

Dr. Chen received a PhD in biochemistry from Emory University and completed postdoctoral research at

Harvard Medical School. From 2004-2020 he served on the faculty in the Department of Hematology & Medical Oncology in the Winship Cancer Institute at Emory University rising to the rank of professor and as the R. Randall Rollins Chair in Oncology. Dr. Chen has an extensive track record of accomplishment in both original publications and research funding. His scholarly work includes very impressive set of papers where his discoveries have been published in *Cancer Cell*, *Molecular Cell*, *Cell Metabolism*, *Nature Cell Biology*, and *Cancer Discovery*. His research has been consistently funded throughout his career. He is currently supported by 2 NIH R01 awards and owns 6 patents for his work. As a mentor, Dr. Chen has received numerous honors and awards during his career including the American Cancer Society Research Basic Scholar Award (2008), the Leukemia & Lymphoma Society's Career Development Program Scholar Award (2010), the Winship 5K Scholar Award (2014-2019), the Distinguished Alumnus from the Graduate Division of Biological & Biomedical Sciences at Emory University (2016). Nationally, Dr. Chen is a standing member of NIH/NCI's Tumor Cell Biology (TCB) Study Section and he has lectured extensively in the international and national arenas. As a mentor, Dr. Chen has an outstanding record of guiding young investigators to successful careers in cancer research. In 2017 he was recognized with the Winship Cancer Institute Research Mentorship Award.

In his role as Associate Vice Chair of Translational Research, Dr. Chen will work closely with the research vice chair team to enhance the Department's scientific mission with a specific focus on the development of senior fellows and junior faculty, interested in translational research.

Research Programs Overview



The Department of Medicine has a long tradition of conducting original and rigorous biomedical and clinical research that is highly innovative and impactful. Discovery and translational investigations are critical to advancing the scientific mission. FY21 was an extraordinary year for the Department due to the success of the dedicated faculty who competed for a record high of \$171.6M in external research funding and published nearly 2,000 original articles to further advance that goal. Additionally, the Department continued to strengthen its translational research mission with the appointments of Raghu Mirmira, MD, PhD as Vice Chair of Translational Research and Jing Chen, PhD as Associate Vice Chair of Translational Research who joined Yoav Gilad, PhD and Bana Jabri, MD, PhD to advance the Department's scientific mission. Determined to learn more about the pandemic, Medicine faculty conducted novel COVID-19 related research resulting in 24 new awards and over \$8M in funding as well as dozens of high impact papers.

During the past academic year, the Department of Medicine's research portfolio totaled nearly

\$125M in federal awards, \$24.6M in industry funded grants/clinical trial earnings and nearly \$22M in non-federal awards. In FY21 faculty in the Department of Medicine acquired 44 new or competitively renewed federal awards totaling approximately \$33M in annual total costs. Noteworthy high impact grants include the successful renewal of the P30 Center for Interdisciplinary Study of Inflammatory Intestinal Diseases (Bana Jabri, MD, PhD - PI) and a new P30 Center for Health Aging Behaviors and Longitudinal Investigations (David Meltzer, MD, PhD - PI). Anindita Basu, PhD was awarded a prestigious NIH Director's New Innovator Award to develop microfluidic and genomic tools that will enable researchers to decipher the complex interactions between microbial populations, host-pathogen interaction and the microbiome using single cell technology. Elbert Huang, MD was the recipient of a new NIH R01 entitled "My Diabetes My Community" focused on mitigating health disparities through patient-centered outcomes research, and also renewed his NIH K24 award focused on research and mentorship in medical decision making for chronic diseases of older adults. In non-federal grants, the Department was awarded significant funding from PCORI, the Damon Runyon Foundation, the Mayday Foundation, Robert Wood Johnson Foundation, the Helmsley Trust and many others in FY21. Four junior faculty investigators, Drs. Mim Ari, Xuanyao Liu, Milda Saunders, and Sarah Tersey earned their first independent NIH research funding in FY21. Joshua Weinstein, PhD was the University of Chicago's first recipient of the prestigious Moore Inventor Fellowship and will use the funding to develop DNA microscopy which will allow researchers to probe as-yet inaccessible layers of biological complexity. In clinical research, the Department conducted approximately 1700 clinical trials resulting in \$21.2M in earnings.

In select COVID-19 related research, the Department of Medicine received 24 awards in FY21 totaling over \$8M. Significant awards include: John Schneider, MD received a \$3.7M NIH UG1 supplement to implement and evaluate a COVID-19 testing approach that combines an evidence-based social network testing strategy with community developed COVID-19 public health messages; Dr. Meltzer received a \$1.7M

Institute of Translational Medicine supplement to study the effects of vitamin D on COVID-19 outcomes and results of his study were published in *JAMA Open Network*, 2020 with over 360,000 online views to date and a metrics score of over 3000, putting it in the top 1000 of scientific papers ever ranked; Katherine Thompson, PhD received an award from HRSA to support the COVID-19 Geriatrics Workforce Enhancement Program

The Department of Medicine is committed to training the next generation of scientists in biomedical research, and is home to eight T series, two K12 training programs and 18 K (career development) grants. In FY21, three training programs, the Digestive Health and Diseases (Eugene Chang, MD - PI) Clinical Therapeutics (Eileen Dolan, PhD - PI) and

Respiratory Biology (Julian Solway, MD - PI) were successfully renewed. Funmi Olopade, MD successfully renewed a K12 to develop an oncology workforce for the 21st century. Two junior faculty, Drs. Bhakti Patel and Nathan Schoettler, received new individual NIH K awards.

The 7th annual Janet D. Rowley Research Day was held virtually on March 9, 2021 with an outstanding presentation by Nobel Laureate, Gregg Semenza, MD, the C. Michael Armstrong Professor of Genetic Medicine, Pediatrics, Oncology, Medicine, Radiation Oncology and Biological Chemistry at Johns Hopkins University School of Medicine.

Best abstract winners in the faculty category were Drs. Xue Gao, Kimberly Stanford and Maria Prya.

In the trainee category best abstract winners were Drs. Yanhong Cui, Alaa Kassir, Xuan Han and Marilyn Arosemena.

Recognizing the research success of an outstanding mid-level scientist the Department selected Milda Saunders, MD and Alexandra Dumitrescu, MD, PhD as the recipients of the 2021 Leif B. Sorensen, MD, PhD Faculty Research Award. Dr. Saunders focuses her work on health disparities and quality of care, particularly related to chronic kidney disease and Dr. Dumitrescu's research is focused on the study of the pathophysiology of inherited defects affecting the thyroid function.

Department of Medicine Federal Programmatic Awards

- Infections and the Stability of Transplantation Tolerance (P01) - Marisa Alegre, MD, PhD
- Integrative Consequences of Intermittent Hypoxia (P01) - Nanduri Prabhakar, PhD
- Pathogenesis of Calcium Nephrolithiasis (P01) - Elaine Worcester, MD
- UChicago Interdisciplinary Cancer Health Disparities SPOR (P20)- Olufunmilayo Olopade, MD
- Diabetes Research Training Center (P30) - Graeme Bell, PhD
- Center for Interdisciplinary Study of Inflammatory Intestinal Disorders (P30) - Bana Jabri, MD, PhD+
- Center for Health Aging Behaviors and Longitudinal Investigations (CHABLIS) (P30) - David Meltzer, MD, PhD+
- Chicago Center for Diabetes Translation Research (P30) - Marshall Chin, MD & Monica Peek, MD

+New / competitively renewed in FY21

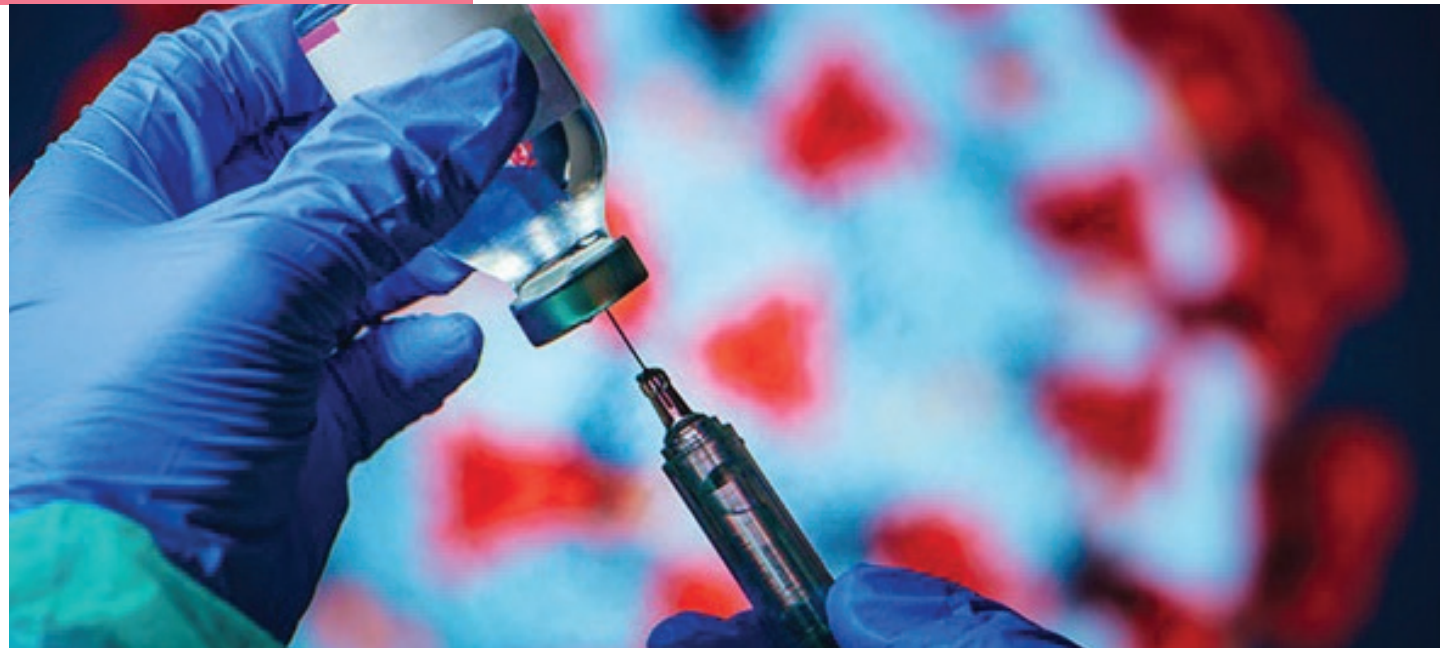
*Represents \$800K+ in annual total cost funding

A list of the DOM's FY21 Total Sponsored Research Awards can be found at: medicine.uchicago.edu

Select High Impact Federal Awards*

- Profiling transcriptional heterogeneity in microbial cells at single cell resolution and high-throughput using droplet microfluidics - Anindita Basu, PhD
- Medical Scientist Training Program - Marcus Clark, MD
- Helping to End Addiction Long-term (HEAL) data platform - Robert Grossman, PhD
- Host and microbial basis of human ulcerative colitis and pouchitis: Identification, role, mechanisms, and resource development of host susceptibility and pathobiont factors and pouchitis - Eugene Chang, MD
- My Diabetes My Community - Elbert Huang, MD
- ACCISIS-Chicago - Karen Kim, MD
- Illinois Cancer Alliance to Reduce Mortality and Enhance Screening (CARES) - Karen Kim, MD
- The integrated stress response in human islets during early T1D - Raghu Mirmira, MD, PhD
- Implementation of point-of-care pharmacogenomic decision support in perioperative care - Peter O'Donnell, MD
- Ending transmission of HIV, HCV, and STDs and overdose in rural communities of people who inject drugs (ETHIC) - Mai Pho, MD
- Community network driven COVID-19 testing of vulnerable populations in the Central US - John Schneider, MD
- ITM 2.0 Advancing Translational Science in Metropolitan Chicago (ULT) - Julian Solway, MD
- Research training in respiratory biology - Julian Solway, MD

Clinical Programs Overview



The Department of Medicine's clinical programs are recognized for excellence across a broad spectrum of subspecialty patient care services for the treatment of highly complex diseases. The COVID-19 pandemic challenged the traditional doctor-patient interaction but, despite these challenges, patient care continued to grow with the innovation of telehealth platforms. Department of Medicine investigators quickly mobilized research trials for hospitalized COVID-19 patients defining the use of medications such as tocilizumab and remdesivir and pioneering the use of innovative ventilation techniques to improve patient outcomes in the ICU. David Meltzer, MD, PhD, chief of the Section of Hospital Medicine, and his colleagues, noted that higher than average vitamin D levels may confer protection against COVID-19 infection especially in black patients and organized a clinical trial to assess the benefit of treatment with vitamin D. Investigators throughout the Department published numerous articles characterizing the acute illness with COVID-19, defining the complexity of long-COVID, and assessing the impact of the pandemic on the doctor-patient relationship. Vaccine trials enrolled a large cohort of patients leading to the approval of this life saving therapy in record time.

The challenges of the COVID-19 pandemic for the hospital and the Department of Medicine became evident by March 2020 with the rapid increase in

COVID-19 cases. With leadership from Matthew Sorrentino, MD, Vice Chair for Clinical Operations, several initiatives were implemented to help mitigate these challenges. The Emergency Department (ED), under the direction of Linda Druelinger, MD and Thomas Spiegel, MD, organized the emergency room to rapidly assess patients and opened a separate emergency room area to care for the increased number of COVID-19 patients as the pandemic expanded. Hospital Medicine defined treatment protocols on COVID-19 wards to care for the increasing number of hospitalized patients. As the number of patients increased, surge protocols to allow additional help in the ED, hospital wards and ICUs were organized to care for the patients. Department of Medicine faculty from all subspecialties helped care for patients in the ED and on the wards using a well-defined surge plan allowing additional faculty help without compromising patient care in other areas. The medicine house-staff, under the direction of John McConville, MD, restructured the inpatient and ICU rotations to care for the increased patient numbers in the COVID-19 wards and ICUs. Department of Medicine fellows, especially from hematology/oncology, pulmonary critical care and cardiology, became involved in additional direct patient care in the hospital to care for COVID-19 patients and to cover the non-COVID-19 service patients.

At the onset of the COVID-19 pandemic, ambulatory visits declined. Telehealth platforms were quickly put into use to keep follow-up appointments with patients and a video telehealth system embedded in the electronic medical record system was fully implemented by September 2020 with over 85% of video visits successfully completed using this platform. Telehealth has continued to be an important tool to interact with patients and currently about 20% of visits remain virtual. Despite the COVID-19 disruption in patient care, telehealth has allowed ongoing care of patients and patient satisfaction surveys have yielded the highest patient satisfaction in two years. In addition, the Department of Medicine has helped structure and run the new Care Transition Clinic and the Post COVID-19 Recovery Clinic for ambulatory COVID-19 patients. To help hospital and ED overcrowding, protocols allowing ED to ambulatory care transfers were developed obviating the need for inpatient admission for many patients.

In FY21 DOM clinical faculty continued to perform at a strong level by generating over 1.2 million physician work RVUs (wRVUs), representing a significant portion of the clinical practice activity of the entire UCM and a near 9% increase over last fiscal year. On the inpatient side, admissions increased 3% to approximately 16,362.

In FY21, the Department's onsite outpatient subspecialty practices and primary care visits totaled 193,842 up 11% from FY20. The Department of Medicine has continued to expand off-site practices. In February, 2020 a new internal medicine clinic was opened on the first floor of the River East facility. In FY21, this outpatient practice accounted for 16,400 visits, and the outpatient practices at South Loop and at the Orland Park facility recorded 2,548 and 9,527 visits respectively. The South Shore Senior Center recorded 6,466 patient visits. Subspecialty groups have offered Cardiology, Hematology/Oncology, Gastroenterology and other focused programs at clinics in Springfield, Champaign, Arlington Heights, Joliet and Munster Indiana sites.

Gastroenterology (GI) procedure volumes totaled over 20,000. GI has also started performing pro-

cedures at the UCM River East location, and has enhanced services at Ingalls Same Day Surgery in Tinley Park, to provide more service locations for patient convenience. In early FY22, Uzma Siddiqui, MD was appointed as the new director of Center for Endoscopic Research and Therapeutics (CERT). Under her leadership CERT will continue its growth into the next decade as well as provide new unique services. The Liver Transplant Program (Michael Charlton, MD – Co-Director) continues to grow and expand. In FY21, the Transplant Institute performed 73 liver transplants, an 18% increase over FY20.

The Department's cardiac programs had a successful year with the Electrophysiology Program experiencing a 19.1% procedural growth as compared to FY20 and 4.9% growth as compared to FY19 with 151 ventricular tachycardia (VT) ablations, representing one of the largest epicardial VT ablation programs in the country. The number of echocardiograms performed continued to rise and exceeded 26,000 studies per year. Cardiac MRI procedures also increased, reaching about 873 scans during this past year. The Interventional Cardiology Program also witnessed an increase in volumes, especially in structural heart disease and pulmonary artery procedures.

In FY21, 480 transplants were performed with bone marrow transplants accounting for 33% (157 total). With the FDA's approval of CAR-T cell therapy for adult patients with certain blood cancers, UCM is the

first center in the Chicago metropolitan area to have this therapy available as a standard of care. In FY21 a total of 17 CAR T-cell procedures were performed. Under the leadership of Sean Pinney, MD, the Advanced Heart Failure Program (AHFP) continues to grow and thrive. Over the past year, 62 heart transplants were performed. The AHFP is recognized as the best transplant program in the country with 100% 1-yr patient survival and shortest time to transplant.

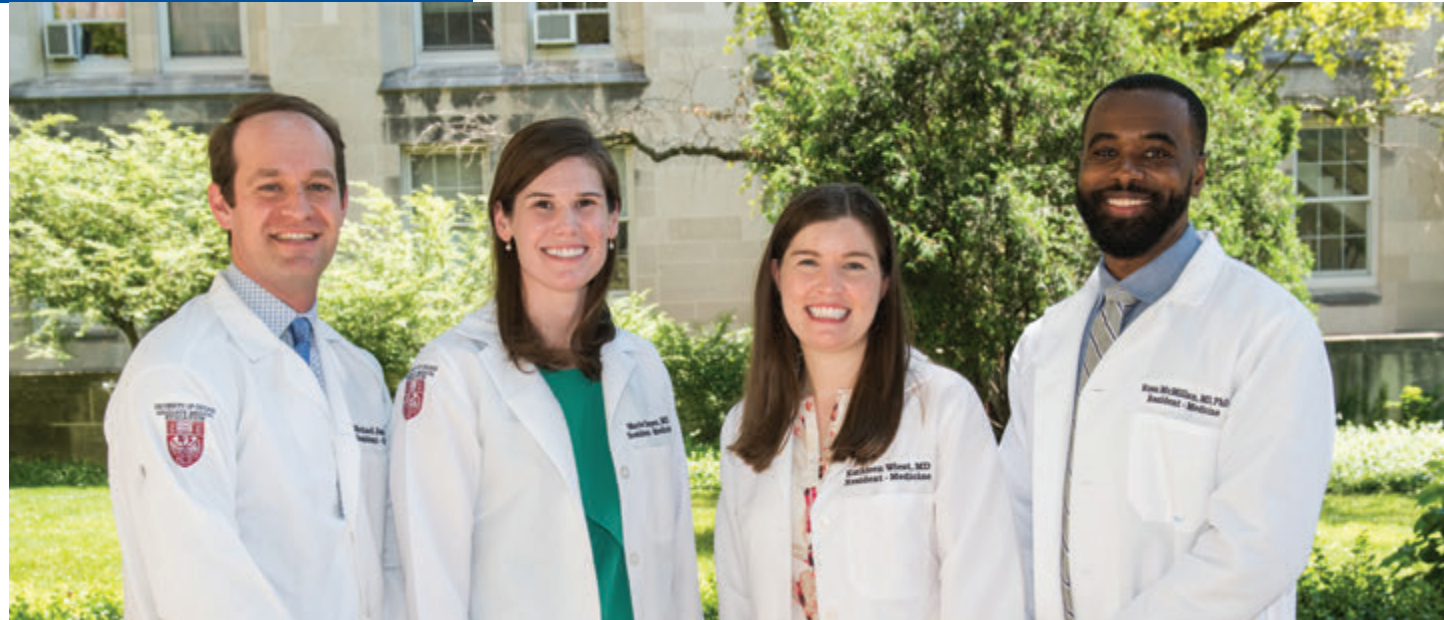
Four Department of Medicine specialties made the national top 50 list as part of the *USNWR* Best Hospitals rankings that were published in July 2021. Cancer rose to #21 from #24 the previous year, endocrinology rose to #14 from #19 the previous year, pulmonary moved up to #45 from #49 the previous year, and gastroenterology dipped to #14 from its #13 ranking in 2020. Geriatrics and Cardiology were ranked as a high performing specialties. Chicago magazine's annual "Top Doctors" list included nearly 75 physicians from the Department of Medicine.

In FY21 UCM continued to be recognized as one of the safest hospitals in the country for the 19th consecutive time by the prestigious and independent Leapfrog Group garnering "Straight A's" designation for its consistency in delivering the highest level of quality and protecting patients from preventable medical errors, injuries and infections while in the hospital.

2021 Department of Medicine Clinical Awards

- Clinical Productivity Awards:
 - Procedure Activity: David Harter, MD
 - Evaluation & Management: Victoria Barbosa, MD
 - Patient Visits: Victoria Barbosa, MD
 - Overall Clinical Activity: David Harter, MD
- Outstanding Clinical Service: Jennifer Pisano, MD
- Clinical Service (New Faculty): Renea Jablonski, MD
- Patient Satisfaction: Justin Kline, MD

Educational Programs Overview



In a supportive environment focused on providing exceptional care to patients on the South Side of Chicago the Department of Medicine (DOM) is deeply committed to the education and training of skilled physician scientists and leaders bound for careers in academic medicine. Under the leadership of John McConville, MD, the Department's educational programs continue to successfully prepare trainees for careers in clinical medicine, teaching, and biomedical research. Within the Internal Medicine Residency (IMR) program, 90% of the graduates pursue sub-specialty training. The 2020 fellowship match successfully matched 40 residents into many of the most competitive and premier fellowship programs in the country, including 12 who continued their training at the University of Chicago. Cardiology and hematology/oncology were the most popular fellowship choices with 8 house staff in each matching to outstanding programs across the country. Other frequent fellowship choices included gastroenterology (6), allergy/immunology (5), pulmonary/critical care (4), and infectious disease (3). Importantly, the DOM was able to successfully recruit 7 new fellows who come from racial and ethnic groups that are underrepresented in medicine.

The internal medicine residents (IM) were the backbone of UCM's response to the COVID pandemic. In the early months of the pandemic, the IM residents cared for 50% of the patients on the general wards

with hospital medicine providers caring for the other half of the ward patients. In addition, IM residents cared for all of the COVID patients admitted to the ICU along with pulmonary/critical care fellows, faculty and colleagues from anesthesia and critical care. Under the leadership of Associate Program Director Julie Oyler, MD, IM residents learned new telehealth skills. All of the internal medicine and medicine-pediatric trainees stepped up during the crisis and demonstrated the selflessness, communication skills, empathy and work ethic that the South Side communities have come to expect of University of Chicago physicians. Despite significant socioeconomic barriers UCM patient outcomes were better than national averages and are evidence of the outstanding care provided by Medicine interns, residents, fellows and faculty. Finally, the number of DOM trainees who contracted COVID at work was exceedingly low which is a tremendous testament to the infection control policies/protocols put in place by UCM and the infectious disease group as well as the adherence to these protocols by all of the DOM providers.

In FY21, Mim Ari, MD and Jason Alexander, MD led the Internal Medicine Intern Selection Committee. A PGY 1 class of 41 interns was successfully recruited from 2064 applicants. IMR applicants from some of the most prestigious medical schools continue to be attracted to the rigorous clinical training, di-

verse patient population, outstanding faculty mentorship and cutting edge therapeutic interventions. 25% of the new intern class self-identify as underrepresented in medicine (URiM). Drs. Monica Vela, Bryan Smith and the entire Diversity Committee were instrumental in recruiting talented and diverse class. The Physician Scientist Development Program (PSDP), which is led by Drs. James Liao and Sonia Kupfer, recruited four outstanding MD/PhDs to continue their residency and fellowship training in hematology/oncology and gastroenterology at the University of Chicago.

The Emergency Medicine Residency Program led by James Ahn, MD, MHPE continues to provide outstanding clinical training, scholarship opportunities and leadership development for 16 talented emergency medicine residents each year. The incoming class of 2024 was drawn from coast to coast with over 60% from top 50 medical schools including the Pritzker School of Medicine. Most importantly, the Emergency Medicine Residency continued its strong tradition of recruiting URiMs with 44% of the incoming class comprised of URiMs. This diverse group of individuals will continue to serve the patient population by addressing healthcare disparities both in and out of the emergency department. In accordance with these values, the emergency medicine residents had the largest amount of representation for the inaugural GME Community Cham-

pions which engages residents in a collaborative effort with community leaders against healthcare inequities. The 2020-21 graduates from the Emergency Medicine Residency Program largely pursued academic careers as 12 out of 16 obtained competitive fellowship positions or joined faculty at peer institutions.

The Section of Dermatology continues to provide excellent resident and fellowship education and training while furthering the field of academic dermatology and delivering comprehensive skin care to a diverse patient population. The Section hosted the annual Chicago Dermatological Society Educational Conference in December 2020 with a guest lecture by Lindy P. Fox, MD, Professor of Dermatology at the University of California-San Francisco. The Dermatology Residency Program, led by Adena Rosenblatt, MD PhD received 640 applications in 2020, and successfully matched outstanding candidates to each of the three available positions. The 2021 graduates accepted dermatology faculty positions at Columbia University, MD Anderson, and Rush-Copley Medical Center. Impacted by COVID restrictions, the Section created an interactive virtual elective that received applications from 153 learners and included students from Pritzker, as well as residents and fellows from the IMR program and other departments in BSD.

In FY21, Angad Chadha, MD was appointed as the director of the medical student dermatology clerkship. Under his leadership and as COVID restrictions lifted, 16 Pritzker MS1 and MS2 students were offered an opportunity to shadow faculty in dermatology clinics. In FY22, medical students will be offered a course focused on inpatient consultation in dermatology. The Dermatopathology Fellowship led by Christopher Shea, MD attracted 72 applicants in 2020 and successfully filled both positions with outstanding candidates for 2022-2023. The 2021 graduate obtained a position at an academic/clinical medical system in Pennsylvania.

The Medicine/Pediatrics Residency Program led by Rita Rossi-Foulkes, MD welcomed 4 top ranked candidates into their 4 open slots. Incoming residents who began in July 2021 consist of graduates from Columbia University, University of Chicago, Rush University and the University of Illinois School at Chicago. One half of the intern class is URiM. The 2021 Medicine-Pediatrics graduating class-Pediatrics matched into highly competitive fellowships at Boston Children's Hospital, the National Institutes of Health and at Northwestern University.

Honors: The Department of Medicine's extraordinary pool of talented educators continues to be recognized for their excellence in undergraduate

and graduate medical education both institutionally and nationally. In FY21, 8 Medicine faculty were recognized as "Favorite Faculty" by the Pritzker graduating. Peter O'Donnell, MD was honored as the recipient of the LDH Wood Preclinical Teaching Award. Mark Siegler, MD was awarded the Department's Arthur Rubenstein Mentorship Award. Within the Biological Sciences Division, Jeanne Farman, MD and Mark Siegler, MD were the recipients of the Distinguished Educator/Mentor Awards for 2021.

The Department of Medicine has a well-established track record of excellence in the educational training, development and mentorship of bright young trainees poised for future leadership in biomedical sciences. In this respect, senior investigators continue to provide a nurturing environment that fosters critical thinking, challenging paradigms, and a collaborative spirit geared toward maximizing the future research potential of each trainee. The Department is the home to several nationally recognized medical research training programs, including 8 NIH-funded training (T32s) grants in cardiology, adult and pediatric endocrinology, oncology, respiratory biology, digestive diseases, clinical therapeutics as well as the medical scientist training program. The Department also holds two NIH K12 grants in oncology and HIV-related-cardiovascular disease and outcomes research, and ten F series NIH awards.

Department of Medicine Awards

- Preclinical Teacher of the Year – Scott Stern, MD
- Clinical Teacher of the Year – Jason Alexander, MD, Adam Cifu, MD and Amber Pincavage, MD
- Postgraduate Teaching – Benjamin Derman, MD and Jay Koyner, MD
- Medicine Resident Teaching Awards:
 - o Kamala Cotts, MD
 - o Kyle Hogarth, MD
 - o Mindy Schwartz, MD
 - o Monica Vela, MD
- Emergency Medicine Resident Awards:
 - o Faculty Educator of the Year – Zayir Malik, MD
 - o Mentorship Award - David Harter, MD

Pritzker School of Medicine Education and Mentorship Awards

- AOA Award Banquet:
 - o Alumni Honoree: John Blair, MD
 - o Faculty Honoree: Kamala Cotts, MD
 - o Housestaff Honorees: Shirlene Obuobi, MD and Benjamin Vazquez, MD
- Favorite Faculty Award Winners:
 - o Keme Carter, MD
 - o Jeanne Farnan, MD
 - o Wei Wei Lee, MD
 - o Peter O'Donnell, MD
 - o Jason Poston, MD
 - o Scott Stern, MD
 - o Monica Vela, MD
 - o James Woodruff, MD

SECTION OF Cardiology



Dr. James K. Liao

Under the leadership of James K. Liao, MD, the Section of Cardiology continues to excel in its tripartite mission of providing high-quality patient care, innovative research, and dedicated teaching. Despite the constraints imposed by the COVID-19 pandemic in FY21, clinical productivity in the Section improved substantially, and was 9.3% higher than that of FY19, the year before the pandemic. This was accomplished through the hard work of the faculty and staff and increased clinical volume through outreach activities.

In FY21, the Section welcomed Sean Pinney, MD, professor of medicine, to serve as the new Director of the Advanced Heart Failure, Cardiac Transplant, and Mechanical Circulatory Support (see Faculty Highlights page 8). He also serves as the Associate Director of the Heart & Vascular Center, and was elected to the Board of Directors, American Society of Transplantation.

In FY21, the General/Preventive Cardiology Program continued to expand its clinical activities beyond Hyde Park to River East and Orland Park locations. As a result, the outpatient visits increased by 16% compared to that of FY20 and 14% compared to that of FY19. Furthermore, new patient visits accounted for 29.1% of all patient visits, exceeding that of FY19, which was 22% of all patient visits. New initiatives included establishing a Women's Cardiovascular Health Program in Hyde Park, River East and Orland Park locations. In addition, Dr. Liao and Shyam Prabhakaran, MD (Department of Neurology) started a new Heart & Brain Clinic at River East for stroke patients with concomitant cardiovascular disease to be jointly evaluated and managed by a multi-disciplinary group of physicians during the same visit. Corey Tabit, MD, Director of Quality and Outcomes, developed guideline-directed clinical pathways for heart failure, acute coronary syndromes, atrial fibrillation, and cardiogenic shock. Along with improved documentation, the observed to expected 30-day mortality fell to its lowest level in 10 years.

The Electrophysiology Program (EP) continues to be a referral center for complex ablation of cardiac

arrhythmias. The EP group started the epicardial AF ablation program, the only program in Illinois, in conjunction with the cardiac surgical group. Furthermore, the EP group performed the first case of cardioneural ablation for functional bradycardia and vasovagal syncope in the US, which was subsequently published in *JACC Case Reports*. Overall EP clinical volume (1,004 cases) has almost recovered to the level of FY19 (1,191 cases). Despite the pressures exerted by the ongoing COVID-19 pandemic which limited elective procedures, the VT ablation volume grew by 17.5% compared to that of last year. Hemal Nayak, MD also began performing transvenous phrenic nerve stimulation for central sleep apnea, the only program in Illinois to do this, and showed that it is safe and effective in patients with concomitant cardiac devices.

Under Dr. Pinney's leadership, the Advanced Heart Failure Program (AHFP) had a record number of heart transplants performed in one year (57 YTD, annualized to 62 per year). The AHFP is recognized as the best transplant program in the country with 100% 1-yr patient survival and shortest time to transplant. Clinical productivity increased by 37% compared to that of FY20. This was due, in part, to a successful expansion of the heart failure services to NorthShore (led by Nitasha Sarswat, MD), and outreach activities at Ingalls, Northwest Indiana, and Springfield, IL (led by Ben Chung, MD). Other new initiatives include the comprehensive heart failure disease management program, dyspnea clinic (Sara Kalantari, MD) and the hypertrophic cardiomyopathy program (Gene Kim, MD). Furthermore, there is an expansion of the



Dr. Sean Pinney

remote pulmonary pressure monitoring system (CardioMEMS) usage under Dr. Chung's leadership and the establishment of the infiltrative cardiomyopathy clinic under Dr. Sarswat's leadership.

During the COVID-19 pandemic, the Cardiac Imaging Program (CIP) has been on the frontline, performing echocardiographic studies on COVID-19 positive patients. Roberto Lang, MD organized an international collaboration to study echocardiographic findings in COVID-19 patients. Parker Ward, MD successfully modified the fellowship educational curriculum to accommodate the social distancing protocols. Dr. Ward also published the COVID-related manuscripts on the guidelines on the Echo's utilization and appropriateness during the COVID-19 pandemic. Amit Patel, MD served as lead author of Society for Cardiovascular Magnetic Resonance virtual training during the COVID-19 pandemic document and co-author of ACC Cardiac Imaging for COVID-19 expert consensus document.

In FY21, the Interventional Cardiology Program (ICP) launched outpatient operations at Orland led by Drs. Atman Shah, Sandeep Nathan, Jonathan Paul and John Blair and River East led by Rohan Kalathiya, MD, and developed closer collaborations with the cardiac catheterization laboratories at Ingalls Hospital. Clinically, the TAVR, Mitra-Clip, and WATCHMAN programs continue to grow. Jonathan Paul, MD expanded the Pulmonary Embolism Response Team and established an outpatient clinic to serve these patients. The Hybrid Revascularization Program, a collaboration with cardiac surgery, has seen continued growth. During the COVID-19 pandemic, the ICP maintained CCU service obligations while continuing to increase procedural volumes in the Cath Lab. The ICP also worked with the hospital to create a negative pressure procedure room to perform emergent cases and with the CT Surgical group to perform emergent bedside ECMO cannulations. During the pandemic, the ICP volunteered in the ED and served as hospitalist inpatient coverage. Moreover, ICP manages the coronary device trials to study the clinical efficacy of bioresorbable stents for the treatment of infrapopliteal artery disease, which is the only site in Illinois for this study.

The Cardiology Section's research efforts continued to place them at the forefront of innovations and therapeutics and resulted in dozens of papers and book chapters this past year including seminal papers in the *New England Journal of Medicine*, *JAMA*, *Circulation* and the *Journal of the American College of Cardiology*, *Heart Rhythm*, and *JACC Clinical Electrophysiology* and other prestigious subspecialty journals.

New grant funding included two awards, an NIH R03 and an AHA Transformative Project Award, to Francis Alenghat, MD, PhD, to investigate the role of lipoprotein lipase in regulating macrophage function. Tamar Polonsky, MD served as a Co-Investigator on a NIH R01 grant studying the effects of lifestyle changes with or without CPAP in pre-diabetic patients. Research efforts from the EP group were well represented in the Annual Heart Rhythm Society meeting, and EP group's PAUSE-SCD clinical trial was the featured randomized trial. The EP group received a \$500K grant from Biotronik to develop an international conduction system pacing registry (CONSPIRE), which is led by Gaurav Upadhyay, MD. In research by the AHFP, Anne Nguyen, MD, was awarded the Michael Reese Research and Education Foundation Bench to Bedside Translational Research Grant to study the role of the microbiome in heart failure patients.

In the educational realm, the Section is home to one of the oldest National Institutes of Health-funded T32 cardiovascular research programs, now in its 42nd year, in the nation as well as four ACGME accredited fellowship training programs. The EP program hosted the International Physiology of Pacing Symposium this October, which is in its 5th year. Bryan Smith, MD launched a successful local high school mentorship program. Mark Dela Cruz, MD (fellow, PGY-6) was awarded AST TCC COP research grant. The annual Heart Failure CME program entitled "3rd Annual Courage and Innovation Symposium" was held virtually and had 1000 online viewers.

PROFESSORS:
James Liao, MD (Chief)
Jeanne DeCara, MD
Dorothy Hanck, PhD (Emeritus)
Roberto Lang, MD
Victor Mor-Avi, PhD*
Sean Pinney, MD
Matthew Sorrentino, MD
Parker Ward, MD

Jonathan Paul, MD
Hena Patel, MD+
Nitasha Sarswat, MD
Amita Singh, MD
Nikola Sladojevic, PhD*
Bryan Smith, MD
Corey Tabit, MD, MBA, MPH
Rongxue Wu, PhD*

ASSOCIATE PROFESSORS:
Gene Kim, MD
Sandeep Nathan, MD, MSc
Hemal Nayak, MD
Amit Patel, MD
Jonathan Paul, MD
Tamar Polonsky, MD, MSCI
Atman Shah, MD
Gaurav Upadhyay, MD

CLINICAL ASSOCIATES:
Bow (Ben) Chung, MD
Kathleen Drinan, MD

PART TIME
Michael Davidson, MD

SECTION ADMINISTRATOR
Phetcharat Chen

ASSISTANT PROFESSORS:
Karima Addetia, MD
Francis Alenghat, MD, PhD
Zaid Aziz, MD
Andrew Beaser, MD
John Blair, MD
Charles German, MD+
Jonathan Grinstein, MD
Alan Jackson, MD+
Sara Kalantari, MD
Rohan Kalathiya, MD
Ann Nguyen, MD
Cevher Ozcan, MD

+New FY22 faculty
*Research track faculty

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Roberto Lang, MD** - Named as the A.J. Carlson Professor; selected to serve as the treasurer of the National Board of Echocardiography
- **Drs. James Liao, Matthew Sorrentino, and Michael Davidson** - Recognized as Top Doctors by *Chicago* magazine for the 9th consecutive year
- **Jeanne DeCara, MD** - Appointed to the American College of Cardiology's Executive Leadership Council and co-chair of the Imaging Working Group of the Cardio-Oncology Section; Named as an Exceptional Women in Medicine by *Chicago* magazine, 2021
- **Karima Addetia, MD** - Selected as Associate Editor for EchoCore, ASE Board Review Preparation Book and selected to the American Society of Echocardiography Scientific Sessions Committee and Research Committee
- **Amit Patel, MD** - Recipient of the 2020 Rory Childers' Teaching Award; named as the chairperson for the Certification Board of Cardiovascular Magnetic Resonance; selected to the ACC Cardiovascular Imaging Section Leadership Council
- **Jonathan Grinstein, MD** - Selected to serve on the Emerging Leaders Advisory Panel for Medtronic
- **Atman Shah, MD** - Named to the Society of Cardiovascular Angiography and Interventions Patent Foramen Ovalve Guidelines Writing Committee, the Structural Heart Disease Training Committee, and the Structural Heart Disease Guidelines Writing Committee

SECTION OF

Computational Biomedicine and Biomedical Data Science



Dr. Robert L. Grossman
Dr. Andrey Rzhetsky

Under the leadership of co-chiefs, Robert Grossman, PhD and Andrey Rzhetsky, PhD, the Section of Computational Biomedicine and Biomedical Data Science, provides a home for faculty who have a research focus in computational biomedicine and biomedical data science (data science and its applications to biology, medicine and healthcare). A strength of the Section is the number of research collaborations involving Section members.

In FY21, Bohdan Khomtchouk, PhD continued to develop the emerging discipline of cardioinformatics by integrating bioinformatics and computational biology approaches to illuminate cardio-(vascular/renal/metabolic) biology and enable new therapeutics. During this past year, he published a paper in *Database*, 2020 on HeartBioPortal – one of the largest cardiovascular disease genetics database in the world – and a paper in *Nature Portfolio Journal: Biofilms and Microbiomes* on using AI/machine learning approaches for microbiome-based drug discovery to enable computationally-derived therapeutics. Dr. Khomtchouk also spun off a biotech company called Dock Therapeutics, Inc from his lab as part of the NSF i-Corps program hosted through the Polsky Center for Entrepreneurship and Innovation and Booth School of Business.

Kyle Hernandez, PhD worked on multiple COVID-19 related projects, including a survey of ACE2 and TMPRSS2 expression by clinical, HLA, immune, and microbial correlates across 34 human cancers (*Journal for Immunotherapy of Cancer*, 2020); an investigation of intra-and inter-host viral genomic diversity (*Genome Research*, 2021); a survey of distinct gene expression patterns between African Americans and European Americans across tissues and tumors associated with immunologic functions that are relevant to COVID-19 (*Scientific Reports*, 2021); and an on-going collaboration with researchers from Uruguay that integrates epide-

miological data with evolutionary dynamics of the CoV-2 virus. Dr. Hernandez also contributed important efforts to the NCI Genomic Data Commons, which are described below.

In FY21 Dr. Rzhetsky's laboratory completed two NIH-funded projects focused on computational analysis of patients with Down's syndrome, and predictive modeling of clinical outcomes of patients exposed to COVID-19 infection. They probed the question of seasonality of psychiatric disorders using two very large datasets describing the health histories of 150 million unique Americans and the entire Swedish population (*PLoS Biology*, 2021). They found that psychiatric disorders' annual patterns were remarkably similar across the studied diseases in both countries, with the magnitude of annual variation significantly higher in Sweden than in the US for psychiatric, but not infectious diseases.

In collaboration with the Dr. Khomtchouk's group, the Rzhetsky laboratory generated and described methodology for natural language processing with the following individual contributions (*Nature Systems Biology and Applications*, 2021). (a) a new, Named Entity Recognition Ontology (NERO) developed specifically for describing textual entities in biomedical texts, which accounts for diverse levels of ambiguity, bridging the scientific sublanguages of molecular biology, genetics, biochemistry, and medicine; (b) detailed guidelines for human experts



Dr. Grossman with then Vice President Biden

annotating hundreds of named-entity classes; (c) pictographs for all named entities, to simplify the burden of annotation for curators; (d) an original, annotated corpus comprising 35,865 sentences, which encapsulate 190,679 named entities and 43,438 events connecting two or more entities; (e) validated, off-the-shelf, named-entity recognition automated extraction, and; (f) embedding models that demonstrate the promise of biomedical associations embedded within this corpus.

Starting with the common knowledge that the transition to daylight saving time (DST) is beneficial for energy conservation but at the same time it has been reported to increase the risk of cerebrovascular and cardiovascular problems, the Rzhetsky group systematically interrogated DST-associated health effects (*PLoS Computational Biology*, 2020). They found four prominent, elevated risk clusters, including cardiovascular diseases (such as heart attacks), injuries, mental and behavioral disorders, and immune-related diseases such as noninfective enteritis and colitis to significantly associate with daylight time shifts in the United States and Sweden.

Dr. Grossman, Zhenyu Zhang, PhD (Center for Translational Data Science), and Dr. Hernandez worked with other researchers from the Center for Translational Data Science to continue to operate the NCI Genomic Data Commons, which now includes genomic and associated clinical data from 68 research projects spanning over 84,000 subjects. During the last year, the GDC was used by over 100,000 researchers. A paper about the GDC by Dr. Grossman and others appeared recently in *Nature Genetics*. All the genomic data submitted to the GDC is harmonized with a uniform set of bioinformatics pipelines that require over 2 million core hours of computation each month. The data harmonization process is led by Dr. Zhang and described in a recent article in *Nature Communications* by Dr. Zhang, Dr. Grossman, Dr. Hernandez, and others.

Dr. Grossman serves on the executive committee of the BloodPAC Consortium for liquid biopsy data, which has expanded to include over 50 organizational members, including most of the vendors that provide liquid biopsy assays for cancer. A paper by Dr. Grossman and other members of the consortium

describing the BloodPAC Data Commons appeared recently in *JCO Clinical Cancer Informatics*. Dr. Grossman also continues to develop the Pandemic Response Commons, which is a persistent resource for the management, analysis and sharing of data related to COVID. The Pandemic Response Commons contains, clinical, viral variant and related data from the Chicago and Illinois region.

PROFESSORS: Robert Grossman, PhD- Co-Chief Andrey Rzhetsky, PhD- Co-Chief	INSTRUCTOR: Bohdan Komtchouk, PhD *Research track faculty
ASSISTANT PROFESSOR: Kyle Hernandez, PhD+	

SECTION OF Dermatology



Dr. Diana Bolotin

Under the leadership of Diana Bolotin, MD, PhD the Section of Dermatology had a successful clinical and academic year with a continued dedication to the tripartite mission of teaching, research and patient centered care. Major accomplishments in FY21 included continued work on rebuilding and expansion of Dermatology clinical services with faculty recruitment, new clinical program development, expansion of both onsite and off-site clinical operations, investment and recruitment of clinical trials and success in attaining research funding.

In FY21 the Section welcomed two new faculty members, Angad Chadha, MD and Arlene Ruiz De Luzuriaga, MD. Dr. Chadha, assistant professor of medicine, focuses his work on inpatient dermatology as well as supportive oncology. He is the primary inpatient consultant for UCM hospitalized patients who require dermatology consultation and expertise for diagnosis and treatment of complex skin disease in the inpatient setting. Within supportive oncology, his interests include adverse reactions and skin disease in patients undergoing oncologic treatments for cancer. Additionally, he sees medical dermatology patients in the DCAM clinic. Dr. Ruiz De Luzuriaga, assistant professor of medicine and vice-chief for dermatopathology operations, has specialty training in both dermatology and dermatopathology. Dr. Ruiz's specialty interest is in melanoma and complex pigmented lesions. She is currently working on expanding and marketing the Pigmented Lesions Program with the Section. Her clinical time is divided between seeing medical dermatology patients, holding a weekly pigmented lesions/melanoma clinic and dermatopathology service. Her research interests include quality improvement in melanoma screening and treatment. She sees patients at both the Hyde Park and South Loop practice sites.

As one of the top academic programs in the nation, focused on understanding, diagnosing, and treating the skin and its diseases, the Section continues to

enhance the clinical practice with new initiatives and a renewed focus on advanced patient care and research. The Section's clinical enterprise continues to be highly productive in outpatient visits and procedures, and in providing the highest quality interpretative services for dermatopathology cases. This fiscal year the Section extended services by adding dedicated inpatient and consultative dermatology and pigmented lesions/melanoma services with the addition of Drs. Chadha and Ruiz de Luzuriaga. Additional recruitments planned in FY22 will allow for further general and specialty care within dermatology both on and off-site. Expansion of clinical operations to off-site practices in Orland Park, Tinley Park, Edwards, the South Loop and River East have broadened the Section's reach in the Chicagoland area. In FY21, the Section was able to maintain clinical growth as the COVID-19 pandemic persisted, by continuing to provide access through a blend of teledermatology services for those conditions that could be appropriately evaluated remotely and high quality in-person care for skin diseases through clinic visits and procedures.

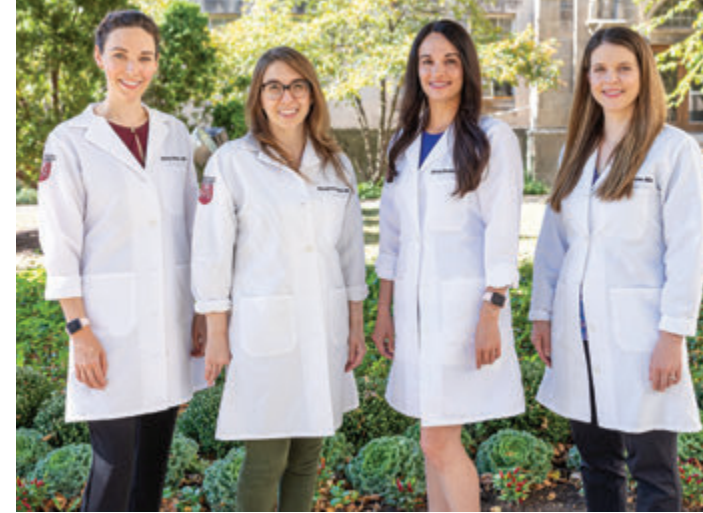
The Section's investigative basic science program continues to focus on the fundamental question of how cells respond to damage from radiation and chemicals from internal or external sources to cause cancer. In FY21, Dr. Yu Ying He's laboratory continued to study the role of RNA methylation in UV damage response and inflammation in skin



Dr. Angad Chadha



Dr. Arlene Ruiz De Luzuriaga



Dermatology Chief Residents

cancer, RNA modifications in arsenic tumorigenicity and role of RNA methylation in UV-induced DNA damage repair and tumorigenesis. This research is funded by the National Institute of Health, with three R01 grants awarded to Dr. He to support this work. Dr. He's work has culminated in a number of publications including several in high-profile journals. Over the past year, the Section has also continued to expand its clinical trials portfolio, which currently focuses on pediatric autoimmune diseases and non-melanoma cell skin cancers. The Section was the only site in the Chicagoland area to host a clinical trial of topical patidegib gel, a targeted medication for patients with Gorlin syndrome and multiple basal cell carcinomas, led by Dr. Bolotin. In the summer 2021, Dermatology was the only site in the Chicagoland area to host a clinical trial of a novel oncolytic HSV virus therapy (RP-1) for advanced cutaneous squamous cell carcinoma in solid organ transplant recipients. The Section's pediatric dermatologists, Drs. Sarah Stein and Adena Rosenblatt, continued to carry out two interventional clinical trials - one testing ixekizumab, in pediatric patients with psoriasis; and another study focused on evaluating impact of visible and chronic skin diseases on stigma and psychiatric issues in the pediatric population. Additionally, a number of investigator-initiated trials in pediatric autoimmune diseases and hair diseases, and a translational investigator-initiated and funded study of RNA-methylation in squamous cell skin cancers continued through FY21.

The Section's educational program continues to cultivate a national reputation as a leader in training the next generation of dermatologists and dermatopathologists. The Dermatology Residency Program, under the direction of Dr. Rosenblatt remains a sought-after dermatology training program, having completed a successful match cycle this year with 639 highly competitive applicants in 2020, seeking one of four slots in 2021. The dermatopathology fellowship program, led by Chris-

topher Shea, MD, also continues to remain strong by providing an excellent training experience to an elite group of dermatologists and pathologists with 71 applicants for one slot entering in July 2022. The Section's newly formed Diversity Committee is working closely with section and program directors to integrate the new Diversity, Equity and Inclusion (DEI) plan into recruitment efforts and educational curriculum for the section.

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Victoria Barbosa, MD, MPH, MBA** - Founder, Physician Protect Initiative by CDPH; 2021 *Chicago* magazine's Top Doctors, Dermatology and Castle Connolly Top Doctors, Dermatology
- **Diana Bolotin, MD, PhD** - Appointed as Bucksbaum Institute Senior Scholar; 2021 *Chicago* magazine's Top Doctors, Castle Connolly's Exceptional Women in Medicine and *Chicago* magazine Exceptional Women in Medicine; elected member, American Dermatological Association; appointed chair of the American Society for Dermatologic Surgery Research Work Group and chair of the ACMS Diagnostic Quality and Teaching Library Committee
- **Angad Chadha, MD** - Course Director for Inpatient Consult Dermatology Clerkship, PSOM (2021); advisor to Medical Student Dermatology Interest Group, PSOM (2020-2021); Clerkship Director for Dermatology, PSOM
- **Yu-Ying He, PhD** - Appointed Co-Chair of the Photobiology Symposium, Society for Investigative Dermatology 2021 meeting; appointed Associate Director for Shared Resources for the University of Chicago Comprehensive Cancer Center
- **Mark Hoffman, MD** - Invited speaker, Pyoderma Gangrenosa, Division of Dermatology Grand Rounds, Loyola University
- **Oluwakemi Onajin, MD** - Appointed Vice Chair of the American Society of Dermatopathology Young Physicians' Committee
- **Adena Rosenblatt, MD, PhD** - Elected to the Association of Professors in Dermatology Program Director Steering Committee
- **Arlene Ruiz de Luzuriaga, MD, MPH, MBA** - Appointed as a Bucksbaum Institute Associate Junior Faculty Scholar; 2021 *Chicago* magazine's Top Doctors, Dermatology; *Chicago* magazine's Exceptional Women in Medicine and Castle Connolly Top Doctors, Dermatology
- **Christopher R. Shea, MD** - 2021 *Chicago* magazine Top Doctor and Castle Connolly Top Doctors in Dermatology
- **Sarah Stein, MD** - Recipient of the University of Chicago, Department of Pediatrics 2020 Donald Liu Award for Collaborative Achievement

PROFESSORS:
Yu-Ying He, PhD
Christopher R. Shea, MD
Keyoumars Soltani, MD

ASSOCIATE PROFESSORS:
Victoria Barbosa, MD, MPH, MBA
Diana Bolotin, MD, PhD (Chief)
Mark Hoffman, MD
Sarah Stein, MD

ASSISTANT PROFESSORS:
Angad Chadha, MD
Oluwakemi Onajin, MD
Adena Rosenblatt, MD, PhD
Arlene Ruiz De Luzuriaga, MD, MPH, MBA
Amy Xu, MD*

CLINICAL ASSOCIATES (FULL TIME):
Emily Lund, MD+
Eduardo Moioli, MD, PhD

CLINICAL ASSOCIATES (PART TIME):
Juliana Basko-Pilluska, MD
John Fox, MD

SECTION ADMINISTRATOR:
Noel Frierson-Lyttle

+New FY22 Faculty/
Clinical Associates

SECTION OF

Emergency Medicine



Dr. Christine Babcock

In October, 2020 Christine Babcock, MD, associate professor of medicine, assumed interim leadership of the Section of Emergency Medicine (EM) following the retirement Linda Druelinger, MD who served as chief for 9 years. Dr. Babcock served as director of the EM Residency Program for nearly a decade and has been recognized as an outstanding clinician, educator, and role model by the EM residents. Her passion for providing excellent education is exemplified by her many innovative contributions to the residency program including a redesign of the residency curriculum, implementation of a comprehensive board review program, creation of a formalized mentorship program, and advancing efforts to support a diverse and inclusive training environment. Under Dr. Babcock's leadership, EM continues to support and maintain the operation and management of the busy adult emergency department (ED) at the University of Chicago Medicine. In addition, the Section continues to care for a sustained COVID-19 presence in the ED as well as an increase in patients suffering from acute traumatic injuries. After a decline in volumes secondary to the COVID-19 pandemic, the number of patients presenting for emergency care has approximated pre-COVID-19 volumes. Throughout the past year, the number of patients presenting to the adult ED for care was just under 75,000.

In FY21, EM welcomed two faculty to the Section at the rank of assistant professor: Mark Chottiner, MD and Nicholas Ludmer, MD. Dr. Chottiner received his MD at the University of Maryland and is a graduate of the Section's residency program. He completed a fellowship at Rush University in emergency ultrasound. His interests are focused on optimizing ultrasound education for all learners within the University community. He will also serve as the director for the inaugural Emergency Medicine Ultrasound Fellowship. Dr. Ludmer received his MD at the Pritzker School of Medicine and completed his residency training at the University of Cincinnati. He then completed a Global Health Education Fellowship at the University of Chicago. His interests are focused on global emergency care and resident education in resource-limited settings.

In FY21, the Opioid Overdose and Naloxone Distribution Program, spearheaded by Paul Quincy

Moore, MD two years ago, continued to care for patients with opioid use disorder and provides family members with tools to combat opioid overdose. Patients at risk of death due to opioid use are identified in the ED and patients and family members are educated on the use of naloxone and buprenorphine post discharge. Dr. Moore was named as a site PI on a National Drug Abuse Treatment Clinical Trials Network (CTN)/New England Consortium grant that conducts clinically relevant research on the treatment of substance use disorders in real-world settings where he will specifically study the effectiveness of these interventions.

Led by David Beiser, MD, the Emergency Clinical Trials Unit (CTU) facilitates all types of emergency research at the institution by bringing together expertise and infrastructure that enables the highest quality emergency clinical research related to cardiac arrest, brain trauma, complications of preg-



Dr. Mark Chottiner



Dr. Nicholas Ludmer



Dr. Abdullah Pratt

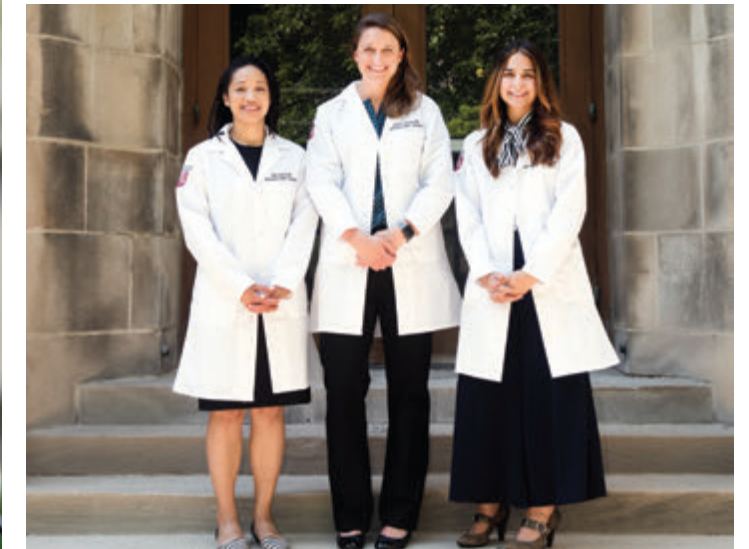
nancy, opioid addiction and COVID. In FY21, the CTU was very active where multiple clinical trials, funded both by the NIH and the pharmaceutical and device industry, were implemented. Dr. Beiser received NIH funding to support Project PREVENT (PREventing Emerging infections through Vaccine EffectiveNess Testing) and to develop a project that adds audio-visual cues to signs and symptoms for COVID-19 screening. He also received an award through the Institute of Translational Medicine to develop a culturally-informed mHealth program for improving self-management of postpartum hypertension in African American women. EMS Medical Director, Katie Tataris, MD, launched the LITES network prehospital airway trial (PACT) and was awarded a grant by the Chicago Department of Public Health to implement prehospital telemedicine consults within the Chicago Fire Department EMS Service and facilitate the appropriate care for mental health patients. Teresita Hogan, MD was the recipient of a \$500K award from the Mayday Fund to maximize adoption of nerve blocks in the emergency room to decrease opioid use and de-

crease risk of delirium in hip fracture patients. Kimberly Stanford, MD focused her clinical research on identifying undiagnosed HIV infections in patients presenting to the ED. Her work has led to funding supplementation from Gilead to study linked testing for COVID-19 and HIV in EDs around the city that are part of the x-TLC group and a high impact paper in *JAMA Internal Medicine* (July 2021).

In basic research, Nanduri Prabhakar, PhD continued his investigative efforts as part of his NIH-funded program project grant which examines the mechanisms and consequences of the overactive sympathetic nervous system caused by chronic intermittent hypoxia and by sleep apnea. Alfredo Garcia, PhD and Willard Sharp, MD, PhD also continued their investigative efforts focused on the neurocognitive consequences of intermittent hypoxia, and pharmacological induced hypothermia as a novel therapy for improving survival following cardiac arrest.

As one of the oldest emergency medicine training programs in the country, the Emergency Medicine Residency Program, led by Interim Program Director James Ahn, MD, continues to attract outstanding trainees and continued its strong tradition of recruiting underrepresented minorities in medicine with 44% of the incoming class being comprised of URiMs. This past year, thirteen of

Emergency Medicine
Chief Residents



the sixteen graduates pursued academic fellowship training. At the post-graduate level, the Section offers five clinical scholar/fellowship training programs including advanced training in medical education, global emergency medicine, medical administration, ultrasound and emergency medical services. The ultrasound fellowship will recruit for its inaugural fellow for the 2022-23 academic year. The Medical Student Clerkship Program, led by Keme Carter, MD, and Paul Kukulski, MD, continues to provide excellent training for the Pritzker School of Medicine and is consistently rated as one of the top rotations by students. In global health, Keegan Checkett, MD, was invited to collaborate with the World Health Organization Clinical Management of COVID-19 team to develop, edit and publish a course series titled 'Clinical Management of COVID' to provide best practices for health care workers globally, especially in low and middle income countries. In DEI efforts, Abdullah Pratt, MD, has built community partners and a broad network to mentor at-risk youth on the southside of Chicago with the long term goal to encourage local high school and collegiate students to consider careers in health care fields with a focus on addressing health care disparities. These programs have the added benefit of exposing current Pritzker School of Medicine students and University of Chicago housestaff to community outreach, engagement, and mentorship.



PROFESSORS:	
Ira Blumen, MD	Kimberly Stanford, MD
Teresita Hogan, MD	Katie Tataris, MD, MPH
David Howes, MD	
Jayasri Nanduri, PhD*	CLINICAL ASSOCIATES:
Nanduri Prabhakar, PhD, D.Sc	Diane Chaney, MD
James Walter, MD	Thomas Fisher, MD
	David Harter, MD
	Julianne Kjolhede, MD
ASSOCIATE PROFESSORS:	
James Ahn, MD, MHPE	MEDICAL EDUCATION CLINICAL SCHOLAR:
Christine Babcock, MD, MSc (interim Chief)	Zayir Malik, MD
David Beiser, MS, MD	Andrew Golden, MD
Keme Carter, MD	
Keegan Checkett, MD	EMS FELLOW:
Robert Mulliken, MD	Lindsay Jaeger, MD
Ying-Jie Peng, PhD*	
Willard Sharp, MD, PhD	INTERNATIONAL MEDICAL EDUCATION CLINICAL SCHOLAR:
Thomas Spiegel, MD, MBA, MS	William Weber, MD
ASSISTANT PROFESSORS:	
Daniel Bickley, MD	PART TIME FACULTY:
Navneet Cheema, MD	Cai Glushak,
Mark Chottiner, MD	Vishal Gupta, MD
Alfredo Garcia, PhD	Kamaldeep Heyer, MD
Nadim Hafez, MD	Murray Keene, MD
Christopher Harris, MD+	Marshall Segal, MD
Paul Kukulski, MD	Joshua Sherman, MD
Nicholas Ludmer, MD	
Isabel Malone, MD+	SECTION ADMINISTRATOR:
P. Quincy Moore, MD	Bradford Lane
Adriana Segura Olson, MD	
Nathan Olson, MD	
Alejandro Palma, MD	
Ying-Jie Peng, MS, PhD*	
Abdullah Pratt, MD	*Research track faculty +New FY22 faculty

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Christine Babcock, MD** - Elected president, Illinois Chapter of the College of Emergency Physicians; named as DEI committee chair for the EM Council of Residency Directors; recipient of the 2021 BSD Distinguished Leader in Diversity and Inclusion Award
- **Ira Blumen, MD** - Elected fellow, Air Medical Physician Association
- **Keme Carter, MD** - Recipient of the 2021 Pritzker School of Medicine Leonard Tow Humanism in Medicine Award and the 2021 Department of Medicine, Diversity Award.
- **Keegan Checkett, MD** - Selected as a Senior Faculty Scholar, Bucksbaum Institute for Clinical Excellence; recipient of the Emergency Medicine Resident Association 25 Under 45 National Award
- **Kim Stanford, MD** - Recipient of the Best Faculty Abstract Award, Janet Rowley Research Day, 2021
- **Katie Tataris, MD** - Named as chair of the Education Committee for Region 11 EMS; appointed as medical director for the Chicago Fire Department's Mobile Integrated Healthcare (MIH) Program and selected as course director, City of Chicago EMS Base Station
- **Zayir Malik, MD** - Recipient of the 2021 Emergency Medicine Residency Outstanding Teacher Award
- **David Harter, MD** - Recipient of the 2021 Emergency Medicine Residency Outstanding Mentor Award

SECTION OF
**Endocrinology,
Diabetes & Metabolism**



Dr. Ronald Cohen

Under the direction of Ronald Cohen, MD, the Section of Endocrinology, Diabetes & Metabolism (EDM) continues to be at the forefront for innovative diabetes research and unparalleled patient care and educational programs. The Section's most notable accomplishments in FY21 include the successful renewal of the NIH-funded T32 training grant (Raghu Mirmira, MD, PhD & Graeme Bell, PhD - Co-PI's) that supports research training in endocrinology and pediatric endocrinology. Other key highlights include the 15th anniversary of the creation of the Kovler Diabetes Center (Louis Philipson, MD, PhD - Director) which is globally renowned for scientific discoveries to enhance the health and lives of patients with diabetes, and within the clinical programs, *US News and World Report* (July 2021) ranked Endocrinology at #14 and Pediatric Endocrinology at #46 in their annual Best Hospitals by Specialty rankings.

In FY21 Isabel Casimiro, MD, PhD joined the faculty as a Pathway to Independence Instructor. Dr. Casimiro's research is focused on understanding the intersection between macrophage activity and metabolic disease. In collaboration with Dr. Mirmira's lab, she is investigating the 12/15-lipoxygenase enzyme in macrophages and how this pathway contributes to obesity and insulin resistance.

In FY21, the Section's clinical programs were highlighted by two innovative initiatives. In collaboration with the Section of Maternal-Fetal Medicine in the Department of Obstetrics & Gynecology, Laura Dickens, MD established a collaborative Diabetes in Pregnancy Program (DIPP) to care for high-risk patients with Type 1, Type 2, and complex gestational diabetes during pregnancy. Katie O'Sullivan, MD developed a new multidisciplinary clinic with Dr. Ritu Verma (Pediatric Gastroenterology) and Macy Mears (Nutrition) to treat patients who have both Type 1 diabetes mellitus and celiac disease. During the COVID-19 pandemic, Celeste Thomas, MD worked on multiple initiatives to improve diabetes quality of care, including the initiation of home phlebotomy visits for outpatient diabetes monitoring. In FY21 Drs. George Bakris, Cohen, David Ehrmann, Philip-

son, David Sarne, and Tamara Vokes received Top Doctor recognition by Chicago magazine (January 2021). Drs. Vokes, Christine Yu, and Diane Deplewski were recognized as Exceptional Women in Medicine by Chicago magazine in April 2021

The Section's internationally recognized investigators continue to make important scientific contributions that led to a better understanding of diabetes, thyroid disease, sleep and polycystic ovary disease. In FY21 the Section's research portfolio totaled over \$9.5M. In addition to the T32 renewal, Matthew Brady, PhD successfully obtained a multi-PI R01 grant on the effects of chronic pubertal stressors on mammary gland biology and cancer risk and Dr. Philipson was awarded a multi-PI R01 on "Monogenic Diabetes: Next Generation Diagnosis, Treatment, and Complications." Dr. Mirmira was awarded an NIH U01 focused on the integrated stress response in human islets during early T1D and successfully renewed his R01 focused on the role of 12-lipoxygenase and 12-HETE signaling in beta-cell dysfunction. Sarah Tersey, PhD was awarded an NIH R03 to study 12-HETE receptor Gpr31 in the pathogenesis of type 1 diabetes. In clinical research, Antonio Bianco, MD, PhD and Alexandra Dumitrescu, MD, PhD completed



Dr. Isabel Casimiro



**RAGHU MIRMIRA, MD, PHD:
 VICE CHAIR OF TRANSLATIONAL
 RESEARCH**

On July 1, 2021, Raghu Mirmira, MD, PhD was appointed as Vice Chair of Translational Research. He joins Drs. Yoav Gilad and Bana Jabri as part of the research leadership team, working together to advance the Department's scientific mission.

Dr. Mirmira, Professor of Medicine (Section of Endocrinology, Diabetes & Metabolism) and Director of the Department's Translational Research Center, previously served as Associate Vice Chair for Translational Research since September, 2020.

In that role he worked closely with Dr. Gilad to increase the number of well-trained young physician-scientists within each of the Department's subspecialty sections and is currently leading the recruitment efforts for transformational physician scientists for the Department.

As a researcher, Dr. Mirmira's work is focused on diabetes research—specifically on the pathogenesis of diabetes mellitus and the biology of islet cells. Among his many achievements, Dr. Mirmira's research has led to the discovery and characterization of fast-acting insulin analogues, which are widely used by patients with diabetes today; more recently, his work has begun to dramatically reshape our understanding of the immune pathogenesis of type 1 diabetes. His research has been continuously funded by NIH since 1999 and he currently serves as PI on five NIH R series and one NIH U series awards. He is also the lead program director with Graeme Bell, PhD of the recently renewed T32 training program in adult integrated clinical and basic endocrinology research. As a scholar he has published over 150 scientific papers in prestigious journals, including *JCI*, *Cell Metabolism*, and *Nature Communications*. Dr. Mirmira currently serves as Deputy Editor-in-Chief of the *Journal of Clinical Endocrinology and Metabolism*, and is an elected member of the American Society for Clinical Investigation.

a Phase 1 clinical trial on slow-release liothyronine which could result in being one of the first significant advances in the treatment of hypothyroidism since the development of synthetic levothyroxine.

One of the unique aspects of the Section is the fully integrated nature of the Adult and Pediatric training programs where adult and pediatric trainees provide care to patients in a combined clinic, and share didactic teaching sessions and conferences. The Committee on Molecular Metabolism and Nutrition (Matthew Brady, PhD- Chair) successfully graduated 4 doctoral students in FY21. Dr. Casimiro developed a lecture series for endocrinology fellows: "What Endocrinologists Need to Know about Transgender Hormone Therapy."

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **George Bakris, MD** - Awarded the 2021 National Kidney Foundation of Illinois Lifetime of Service Award
- **Antonio Bianco, MD, PhD** - Awarded the 2020 Pinchera Prize from the European Thyroid Association
- **Ronald Cohen, MD** - Named Associate Editor of *Frontiers in Pediatric Endocrinology*
- **Alexandra Domtrscu, MD, PhD** - Awarded the 2021 Department of Medicine Leif B. Sorensen Research Award

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| PROFESSORS:
George Bakris, MD
Graeme Bell, PhD
Antonio Bianco, MD, PhD
Ali Cinar, PhD*
David Ehrmann, MD
Murray Favus, MD **
Raghavendra Mirmira, MD, PhD
Louis Philipson, MD, PhD
Kenneth Polonsky, MD
Samuel Refetoff, MD **
Christopher Rhodes, PhD**
Eve Van Cauter, PhD **
Tamara Vokes, MD | ASSISTANT PROFESSORS:
Ryan Anderson, PhD*
Laura Dickens, MD
Erin Hanlon, PhD*
Rajesh Jain, MD+
Michele Lemelman, MD
Rochelle Naylor, MD
Katie O'Sullivan, MD
Celeste Thomas, MD
Christine Yu, MD
Meltem Zeytinoglu, MD |
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|---|--|
| ASSOCIATE PROFESSORS:
Ronald Cohen, MD (Chief)
Matthew Brady, PhD
Dianne Deplewski, MD
Alexandra Dumitrescu, MD, PhD
Siri Atma Greeley, MD, PhD
Manami Hara, PhD *
Silvana Pannain, MD
Susan Sam, MD
Sarah Tersey, PhD*
Ann Zmuda, DPM | INSTRUCTOR:
Isabel Casimiro, MD, PhD |
|---|--|

*Research track faculty
 **Emeritus
 +New FY22 faculty

- **Michelle Lemelman, MD** - Awarded the Lucille Lester Award for Promotion of Childhood Wellness from the Department of Pediatrics at the University of Chicago
- **Raghu Mirmira, MD, PhD** - Appointed deputy editor of *Journal of Clinical Endocrinology and Metabolism* and editor of *ENDO2021 Highlights*, a summary of research presented at the Endocrine Society's Annual Meeting in 2021
- **Louis Philipson, MD, PhD** - Awarded the Donald Steiner Award for Outstanding Achievement in Diabetes Research from the University of Chicago Diabetes Research and Training Center

SECTION OF
**Gastroenterology,
 Hepatology & Nutrition**



Dr. David T. Rubin

Under the direction of David T. Rubin, MD, the Section of Gastroenterology, Hepatology and Nutrition (GI) continued to enjoy success across all missions. In the past year, GI's clinical programs expanded to 9 sites and recently earned national recognition as #14 in the nation by *US News & World Report* (July 2021). Section faculty published over 300 manuscripts in peer-reviewed journals, many of which were collaborations with other departments and institutions, and includes numerous high impact papers. The Section faculty were very active in efforts to protect patients and staff during the COVID-19 pandemic. This included leadership roles nationally and internationally, and many impact publications related to evaluation and management of patients with digestive diseases in the setting of the pandemic, clinical practice updates, and locally, active management of staff, fellows, and faculty health and well-being.

In FY21, the Section continued to grow its clinical programs both on campus and at offsite locations. The Section successfully opened a new IBD clinic in Hinsdale and plans to expand this clinic in the near future. In addition, GI faculty began performing endoscopic procedures at the UCM River East location and will continue to grow procedure volumes at the satellite locations.

The Liver Transplant Program (Michael Charlton, MD - Co-Director) continues to grow. In FY21, the Transplant Institute performed 73 liver transplants, a significant increase over FY20. Uzma Siddiqui, MD was recently appointed as director of the Center for Endoscopic Research and Therapeutics. She previously served as associate director where she was an integral part of the Center's success. Under her leadership CERT will continue its growth into the next decade as well as provide new unique services. Chris Chapman, MD was named co-director of the Center for Obesity and Weight Management where he will partner with Mustafa Hussain, MD, to oversee

and grow the newly created Center for Obesity and Weight Management. The Inflammatory Bowel Disease Center (Russell Cohen, MD - Director) continued to grow particularly at Orland Park, River East, and Tinley Park during the past year.

In FY21, the Section research portfolio totaled over \$13.5M and included the successful continuation of two important grants: the NIH Digestive Health and Disease T32 (Eugene Chang, MD - PI) and the NIH P30 Center for Interdisciplinary Study of Inflammatory Intestinal Disorders (formerly DDRCC) (Bana Jabri, MD, PhD - PI). Yanchun Li, PhD received an NIH R01 to study the roles of m6A mRNA methylation in innate immunity. Dr. Chang and Dr. Rubin received a large award from Hong Kong University focused on the development of microbial product and Dr. Jabri successfully renewed her NIH R01 investigating innate and adaptive immunity in celiac disease.

The FY21 the GI Fellowship Program, under the leadership by Andrew Aronsohn, MD, included



Dr. Uzma Siddiqui

12 categorical fellows, 4 of which are part of the Department's Physician Scientist Development Program. The Section also successfully recruited 5 advanced fellows in interventional endoscopy, nutrition, and IBD continuing the unique tradition of training niche experts in various aspects of GI. Despite limitations from the pandemic the Section hosted several virtual CME events in FY21 including the 3rd annual 'Women in GI Conference' co-chaired by Drs. Helen Te, Sonia Kupfer, Anjana Pillai and Sonali Paul. The GI telehealth conferences in liver and IBD has now been expanded to include a nutrition series led by Drs. Paul and Ed McDonald, and continue to grow in attendance with local, national and international participants.

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Drs. Russell Cohen, Ira Hanan, David T. Rubin, Carol Semrad, Helen Te** - Named as Top Doctors by *Chicago* magazine
- **Drs. Helen Te and Carol Semrad** - Named as Exceptional Women in Medicine by *Chicago* magazine
- **A Murat Eren, PhD** - Recipient of BSD Distinguished Investigator (Junior) Award
- **Carol Semrad, MD** - Recipient of the BSD Distinguished Clinician (Senior) Award and named as Master Endoscopist by The American Society for Gastrointestinal Endoscopy
- **Neil Sengupta, MD** - Named as chair, Practice Parameters Committee of the American College of Gastroenterology
- **David T. Rubin, MD** - Elected chair of the National Scientific Advisory Council of the Crohn's & Colitis Foundation (2021-24); recipient of the 2020 Sherman Prize by the Bruce and Cynthia Sherman Charitable Foundation
- **Helen Te, MD** - Recipient of the 2021 Physician of Distinction by American Society of Transplantation

PROFESSORS:
 David Rubin, MD (Chief)
 Eugene B. Chang, MD
 Michael Charlton, MD
 Russell Cohen, MD
 Ira Hanan, MD
 Bana Jabri, MD, PhD
 Karen Kim, MD
 Mary Rinella, MD+
 Carol Semrad, MD
 Uzma Siddiqui, MD
 Helen Te, MD

ASSISTANT PROFESSORS:
 Valerie Abadie, PhD *
 Christopher Chapman, MD
 Sushila Dalal, MD
 A. Murat Eren, PhD
 Cambrian Liu, PhD*
 Edwin McDonald III, MD
 Dejan Micić, MD
 Sajjan Najpal, MD
 Sonali Paul, MD
 Vijaya Rao, MD
 Neil Sengupta, MD

ASSOCIATE PROFESSORS:
 Andrew Aronsohn, MD
 Marc Bissonnette, MD
 Robert Kavitt, MD
 Sonia Kupfer, MD
 Yanchun Li, PhD
 Joel Pekow, MD
 Anjana Pillai, MD
 Kapuluru Gautham Reddy, MD
 Atsushi Sakuraba, MD

INSTRUCTORS:
 Noa Cleveland, MD+

CLINICAL ASSOCIATES:
 Nina Gupta, MD
 Bertram Rogers, MD

SECTION ADMINISTRATOR:
 Mark Mitchell

*Research track faculty
 **Emeritus
 +New FY22 faculty

SECTION OF
General Internal Medicine



Dr. Deborah Burnet

Under the leadership of Deborah Burnet, MD, MAPP, the Section of General Internal Medicine (GIM) comprises highly talented faculty dedicated to providing exceptional clinical care, teaching and leading educational programs, and conducting innovative, real-world research and advocacy addressing pressing health disparities. The Section is home to several outstanding multidisciplinary academic centers and programs including the MacLean Center for Clinical Medical Ethics, Bucksbaum Institute for Clinical Excellence, Chicago Center for Diabetes Translation Research, the Center for Chronic Disease Research and Policy, and the Center for Community Health and Vitality.

In FY21, GIM welcomed three new faculty at the rank of assistant professor: Harita Shah, MD, whose interests are focused on improving access to care for underserved communities and addressing health disparities; Rasika Karnik, MD, who currently leads the Section's Post-COVID-19 Recovery Clinic, and Elizabeth Tung, MD, MS, who conducts highly innovative research addressing effects of community violence on health, and mentors many trainees with interests in this area.

Major accomplishments in FY21 included GIM's rapid response to COVID-19 pandemic needs in both inpatient and outpatient settings, a new Post-COVID-19 Recovery Clinic, and effective advocacy and leadership at the institution and community level to promote equitable access to high quality care, including COVID-19 vaccines. Associate Chief Medical Information Officer, Sachin Shah, MD, used the electronic medical record infrastructure he previously developed to issue invitations to UCM patients in need of COVID-19 vaccines, and Rajlakshmi Krishnamurthy, MD, led the team which administered vaccines to over 61,000 UCM patients and community members. Under the leadership of Valerie Press, MD, MPH, the COVID-specific Transitions Clinic (CTC) continued drive-through COVID-19 testing for thousands of patients, em-

ployees, and community members. GIM faculty cared for overflow patients from the Emergency Room as the hospital census surged, and attended on busy in-patient services. Vineet Arora, MD, MAPP, created the Illinois Medical Professionals Action Collaborative Team (IMPACT4HC) to dispel misinformation and promote equity during then pandemic. Andy Davis, MD, MPH, prepared detailed daily updates for faculty leaders, covering COVID-19 daily hospital census, regional and national trends in cases, travel guidelines, updates on Delta variant and epidemiology, as well as research and policy updates to guide care.

After rapidly implementing telehealth visits during early weeks of the pandemic, FY21 was a time for rebuilding on-site in-person clinical operations. Under direction of Lisa Vinci, MD, MS, the Primary Care Group (PCG) cared for over 31,000 patients in FY21, the majority of whom are lower-income African Americans, who were deeply affected by COVID-19, economic displacement, and systemic racism during pandemic. To address this crisis, GIM faculty played leading roles in clinical service and advocacy. Monica Peek, MD, MPH, MS was part of the team that developed the COVID-19 crisis standards of care for the state of Illinois and served on the mayor's Racial Equity Rapid Response team



Dr. Rasika Karnik



Dr. Harita Shah



Dr. Elizabeth Tung

to address COVID-19 disparities in Chicago. With support from George Weyer, MD, Drs. Vinci and Krishnamurthy, the PCG team called and engaged thousands of ‘missing’ patients to get them back into needed care for diabetes, hypertension, and other high-risk conditions. As Dean for Clinical Affairs, John Flynn, MD, MBA, MEd, continued development of the UCM clinical network, adding new practices at Homewood and Dearborn Station, with many new physicians. Lina Khamis, MD, was named medical director of the practice at River East.

In October 2020, the Section launched the new Post-COVID-19 Recovery Clinic (PCRC) to address needs of so-called COVID-19 Long-Haulers, who experience lingering symptoms after COVID-19. Under direction of Rasika Karnik, MD, MS, this clinic brings new patients into the UCM system for post-COVID-19 specialty care and supports clinical research on the post-COVID-19 syndrome. In FY21, the

PCRC served 265 new patients, most of whom also received UC sub-specialty care.

Under leadership of George Weyer, MD, and Mim Ari, MD, the new in-patient Opioid Use Disorder (OUD) Consult Service saw over 10 patients per week to address the rising burden of OUD in Chicago. With Sarah Dickson (APN) and JP Murray, MD (Hosp Med), Drs. Weyer and Ari address inpatient opioid needs, teach residents to care for OUD, and start patients on medication treatment with linkage to outpatient follow up through grant funding from the Illinois Public Health Institute. Readmissions have plummeted for in-patients receiving this care (19% ->11% 30d readmissions; 29% ->19% 90d readmissions).

Doriane Miller, MD, was named Medical Director for the new Liaisons in Care (LinC) program connecting medically underserved patients to care through

expanding use of community health workers in PCG and other UCM clinics, and named Director of Health Equity for Institute for Translational Medicine. Anna Volerman, MD advocated for schools reopening in the Chicago Tribune and on a panel with CDPH’s Dr. Alison Arwady; she also launched a new program, ACHIEVE, for high schoolers and undergraduates supporting local community organizations through service projects.

In FY21, GIM’s research portfolio totaled over \$14M, which includes the successful acquisition of several new high impact awards. Elbert Huang, MD, MPH was the recipient of a new NIH R01 entitled “My Diabetes My Community” focused on mitigating health disparities through patient-centered outcomes research, and renewed his NIH K24 award focused on research and mentorship in medical decision-making for older adults with chronic disease. Dr. Huang was recently awarded a \$20M

training programs for MD students. She also served as Associate Chief Medical Officer, Clinical Learning Environment at University of Chicago Medicine where she bridged educational and hospital leadership to integrate residents and fellows into the quality, safety, and value missions of the institution.

Throughout her career, Dr. Arora has demonstrated profound personal and academic investment in the quality of medical education. With a particular focus on the learning environment for medical trainees, she works to simultaneously improve the quality of learning and clinical care delivered by trainees in academic hospitals. Dr. Arora led pioneering work on resident sleep, fatigue, and hand-offs that have informed changes in residency duty hours. She is the principal investigator of an AMA Accelerating Change in Medical Education grant to integrate health systems science into medical education and is a Josiah Macy Faculty Scholar for her work improving the interprofessional clinical learning environment at UCM. Dr. Arora is also an expert in sleep loss and has received NIH funding to study

and improve sleep for patients as they transition from hospital to home. Her dedication to the highest standard of medical care and training is deeply connected to her commitment to equal opportunity in medicine. She has received NIH support to study novel methods for using social media to expose minority youth to medical research careers, and leads an NIH grant funded by the Diversity Program Consortium to improve mentor training for women and minority medical students at eight medical schools. Her academic work has been cited over 10,000 times.

Dr. Arora an elected member of the National Academy of Medicine and serves on the Board of Directors of the American Board of Internal Medicine and the Joint Commission. She was recently elected Master in the American College of Physicians.



VINEET ARORA, MD, MAPP:
DEAN FOR MEDICAL EDUCATION

Vineet Arora, MD, the Herbert T. Abelson Professor of Medicine (General Internal Medicine) was appointed as Dean for Medical Education of the Biological Sciences Division on July 1, 2021. In this role she oversees medical education for students in the Pritzker School of Medicine and for all residents and fellows in graduate medical education programs at the University of Chicago. Dr. Arora previously served as Assistant Dean of Scholarship and Discovery overseeing all aspects of research

grant from NIH to launch, in collaboration with Rush Medical Center, the Chicago Chronic Condition Equity Network (C3EN), a project that will focus research efforts on addressing health disparities in chronic disease care for African Americans and Latinos in the Chicago region. Mim Ari, MD, and Neda Laiteerapong, MD, MS, in collaboration with Kate Thompson, MD (GPM) received funding from the Agency for Healthcare Research and Quality to implement a new pragmatic model for managing chronic pain, opioids, and opioid use disorder for Chicago’s older adults. Dr. Laiteerapong, was also awarded a five-year training grant to develop the

Primary Care Investigators Training in Chronic Disease & Health Disparities (PITCH) Fellowship. Milda Saunders, MD, MPH, was the recipient of a new NIH R01 to develop and test an Intensive Patient Referral and Education Program for Renal Replacement Therapy (iPREP-RRT) program. Monica Peek, MD, MPH, MS, was awarded an NIH Community Engagement Alliance (CEAL) award to study and address COVID-19 disparities, in conjunction with the University of Illinois at Chicago.

GIM faculty continue to lead education efforts in the Internal Medicine and Med-Peds residencies and in

the Pritzker School of Medicine, teaching over 130 residents in the PCG clinic and serving in a variety of leadership roles. Allison Crawford, MD, MS, launched a new residents’ curriculum in cardiovascular preventive health with support from the Academy of Distinguished Medical Educators. Rusiecki, MD, MS, continued developing the women’s health track within the internal medicine residency program, with 9 residents currently enrolled. Wei Wei Lee, MD, MPH, led efforts to build resilience in the face of COVID-19 and other stressors among medical students, residents and faculty.

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Jason Alexander, MD** – Appointed Director of the Cochrane US Network Affiliate at University of Chicago
- **Arshiya Baig, MD, MPH** - Elected President, Midwest Society of General Internal Medicine
- **Marshall Chin, MD, MPH** - Named as co-chair of the Centers for Medicare and Medicaid Services Health Care Payment Learning and Action Network Equity Advisory Team
- **Elbert Huang, MD, MPH** – Founding board member of the International Geriatric Diabetes Society; named to the editorial committee *Diabetes Atlas* (Oth Edition) of the International Diabetes Federation; named to the American Diabetes Association COVID-19 Expert Advisory Panel
- **Doriane Miller, MD** – Senior Faculty Scholar, Bucksbaum Institute for Clinical Excellence; Institute for Translational Medicine Director of Health Equity; named to the CTSA (NCATS) National Program Steering Committee: Diversity, Inclusion and Equity Task Force
- **Julie Oyler, MD** – Elected chair, Board of Regional Leaders for the SGIM National Council
- **Monica Peek, MD, MPH, MS** - Named to the Leadership Committee of the American Diabetes Association, the Science and Health Care Council
- **Amber Pincavage, MD** - Chaired the Clerkship Directors in Internal Medicine (CDIM) Survey and Scholarship Committee; elected to CDIM National Council
- **Valerie Press, MD, MPH** – Recipient of the Frederick L. Brancati Mentorship and Leadership Award, Society of General Internal Medicine; Best Investigator Award, Midwest SGIM
- **Milda Saunder, MD** - Recipient of 2021 Department of Medicine Leif B. Sorensen Research Award
- **Mark Siegler, MD** - Recipient of the 2021 BSD Distinguished Mentor/Educator Award and 2021 Department of Medicine Arthur Rubenstein Mentorship Award
- **Elizabeth Tung, MD, MS** – Recipient of the 2021 BSD Distinguished Leader in Community Service and Advocacy (Junior) Award
- **Drs. Diane Altkorn, Deborah Burnet, Kamala Cotts, Mindy Schwartz, Monica Vela** - Recognized as Exceptional Women in Medicine and as Top Doctors by *Chicago* magazine (2021)

PROFESSORS:

Deborah Burnet, MD, MAPP (Chief)
Diane Altkorn, MD *
Vineet Arora, MD, MAPP
Marshall Chin, MD, MPH
Adam Cifu, MD
Andrew Davis, MD, MPH
John Flynn, MD, MBA, MEd
Elbert Huang, MD, MPH
Doriane Miller, MD
Julie Oyler, MD
Monica Peek, MD, MPH, MS
Mindy Schwartz, MD
Mark Siegler, MD
Scott Stern, MD
Monica Vela, MD
Lisa Vinci, MD, MS
James Woodruff, MD

ASSOCIATE

PROFESSORS:

Irsk Anderson, MD
Arshiya Baig, MD, MPH
Dionne Blackman, MD
Kamala Cotts, MD
Rajlakshmi Krishnamurthy, MD
Neda Laiteerapong, MD, MSCP
Wei Wei Lee, MD, MPH
Amber Pincavage, MD
Valerie Press, MD, MPH
Rita Rossi-Foulkes, MD, MS
Milda Saunders, MD, MPH
Sachin Shah, MD
Anna Volerman Beaser, MD

ASSISTANT

PROFESSORS:

Nabil Abou Baker, MD
Jason Alexander, MD
Mim Ari, MD
Alison Crawford, MD, MS
Rasika Karnik, MD
Susan Nasr, MD, MA
Jennifer Rusiecki, MD, MS
Harita Shah, MD
Todd Stern, MD
Elizabeth Tung, MD
George Weyer, MD
Elizabeth Tung, MD, MS

CLINICAL

ASSOCIATES:

Joseph Asbury, MD
Lina Khamis, MD, MBA

SECTION

ADMINISTRATOR:

Cindy Kitching

*Part time

SECTION OF Genetic Medicine



Dr. Yoav Gilad

Under the leadership of Yoav Gilad, PhD, the Section of Genetic Medicine demonstrated overwhelming research success in the past year. Remarkably nearly every member of the Section's faculty is supported by extramural funding for their innovative translational genetic research. Highlights from FY21 include the recruitment of Roshini Roy-Chowdhury, PhD to the faculty and the receipt of a NIH Director's New Innovator Award to Anindita Basu, PhD and the University of Chicago's first Moore Inventor Fellowship to Joshua Weinstein, PhD.

Joining the Section of Genetic Medicine in FY21 was Dr. Roshini Roy-Chowdhury, PhD. Dr. Chowdhury's research centers on understanding the differentiation pathways, cell states, antigen-specificities, and functional specialization of tissue-localized lymphocytes. She is specifically interested in unconventional lymphocytes and uses a suite of genomic, transcriptomic, and proteomic approaches to understand the functional consequences of their enrichment in different tissue localizations in humans. Her lab also focuses on disease modeling using organoid systems to drive mechanistic studies of human pathophysiology.

In FY21, the Section's research portfolio totaled over \$10.0M with the addition of many new awards. Dr. Basu was the recipient of a prestigious NIH Director's New Innovator (DP2) award to leverage droplet microfluidics, develop physical, chemical and enzymatic lysis methods, and investigate novel molecular biology and sequencing techniques to develop a single-cell microbial genomics pipeline. Joshua Weinstein, PhD was awarded the University of Chicago's first Moore Inventor Fellowship to develop DNA microscopy which will allow research-

ers to probe as-yet inaccessible layers of biological complexity. With DNA microscopy, Dr. Weinstein's research group is creating a new method of imaging that rethinks the idea of a microscope, allowing for a deeper look into the inner workings of living matter. He also received a grant from the Damon Runyon Foundation to utilize a novel DNA microscopy platform for rapid discovery of immunogenic tumor neoantigens, and a recent NIH R35 to study volumetric spatial genetic imaging with DNA microscopy. Mengjie Chen, PhD received a National Science Foundation award to develop statistical methods for intro-tumor heterogeneity studies using sequencing data and a new NIH R01 to develop computational tools for spatial transcriptomic data. Xuanyao Liu, PhD and Sebastian Potts, PhD were the recipients of NIH R35 funding to study the genetic basis and mechanisms of trans gene regulation using statistical methods, and to investigate the mechanisms and determinants of dynamic gene regulation during development and cellular differentiation, respectively. Hae Kyung Im, PhD was recently awarded a grant from the National Institute of Aging to establish the genetic architecture of genome-scale metabolic networks.



Dr. Roshini Roy-Chowdhury



Dr. Anindita Basu

PROFESSORS:
Yoav Gilad, PhD (Chief)

ASSOCIATE PROFESSOR:
Luis Barreiro, PhD
Sebastian Pott, PhD+

ASSISTANT PROFESSORS:
Anindita Basu, PhD
Mengjie Chen, PhD
Andrew Dahl, PhD
Melissa DeMille, PhD+
Hae Kyung Im, PhD
Yang Li, PhD
Xuanyao Liu, PhD
Roshni Chowdhury Roy, PhD
Joshua Weinstein, PhD

SECTION ADMINISTRATOR:
Ann Leu

+Research track faculty

YOAV GILAD, PHD: DEAN FOR BIOMEDICAL AND HEALTH INFORMATICS

Yoav Gilad, PhD, Professor of Medicine, Vice Chair for Research and Chief of the Section of Genetic Medicine was appointed as Dean for Biomedical and Health Informatics in the Biological Science Division on July 1, 2021. The creation of this new position by Dean Kenneth Polonsky recognizes the essential contributions that data, information, and computer sciences make in the understanding of biology, medicine and the enhanced delivery of health care services.

In his new leadership role, Dr. Gilad is focusing his efforts on the development and oversight of a strategic and forward-looking core facility to provide state-of-the-art research-informatics services, expert consultation, and flexible models for support of and/or collaboration with BSD faculty; the development of a research specialization in medical informatics including recruitment of a critical mass of faculty to drive innovative, impactful research and rigorous scholarship, and the devel-

opment of an integrated program for the management of biomedical and health data in close collaboration with UCM and the University to generate and disseminate biomedical knowledge and to leverage this knowledge to enhance patient care.

Dr. Gilad is a highly regarded and internationally acclaimed leader in the fields of human genetics, gene regulation, and genome biology. His research focuses on understanding the genetics of complex phenotypes and the potential for personalized medicine using genomic sequencing, genome informatics, and functional genomics tools. In 2005 he joined the faculty of the University of Chicago, Department of Human Genetics. From 2014 to 2018, Dr. Gilad directed the Committee on Genomics and Systems Biology and from 2010 to the present, he has led the Functional Genomics Facility. Driven by a desire to translate basic discovery to improvements in health care, in 2016 Dr. Gilad was appointed as Professor of Medicine and Chief of the Section of Genetic Med-

icine. In 2017, he was named as Vice Chair for Research and has successfully led a national search for transformational scientists to enhance the Department's research mission.

Dr. Gilad is the recipient of multiple federal grants to study human disease and evolution using cutting-edge empirical and computational genomic techniques. His lab's research focuses on understanding the genetics of complex phenotypes and the potential for personalized medicine using genomic sequencing, genome informatics, and functional genomics tools.

SECTION OF Geriatrics & Palliative Medicine



Dr. Stacie Levine

Under the direction of Stacie Levine, MD the Section of Geriatrics & Palliative Medicine (GPM) is dedicated to enhancing the health of older adults and patients with serious illness through its outstanding clinical care, innovative research and excellent training programs. Major GPM highlights from FY21 include the inaugural UChicago's Virtual Aging Research Conference led and convened by Megan Huisingsh-Scheetz, MD, with featured guest speakers from the National Institute on Aging and over 100 participants. Under the leadership of Monica Malec, MD, the Section witnessed the expansion of health system wide advance care planning efforts alongside palliative medicine faculty, and in collaboration with the Center for Health Care Delivery Science and Innovation. With the regard to the COVID-19 pandemic, the geriatrics team, in collaboration with Project-ECHO, received funding from the Agency for Healthcare Research and Quality to participate in the National Nursing Home COVID-19 Action Network (Katherine Thompson, MD - PI). As a result, the Section has hosted weekly educational and mentoring sessions for nursing homes in Illinois and have published their response to a COVID-19 outbreak in one of the local nursing homes in South Shore (*J Am Geriatr Soc.*, 2021).

In FY21, Jacob Walker, MD, assistant professor of medicine, joined the GPM faculty. His academic interests are focused on the complex care needs of older adults with HIV and educating clinicians and allied health professionals on how to meet the needs of older adults with HIV/AIDS. In FY21 and in collaboration with the Section of Infectious Diseases & Global Health, Dr. Walker led the creation of the HIV & Aging Clinic, making it one of only approximately a dozen geriatric HIV programs in the country.

The inpatient and ambulatory Oncology Palliative Medicine Program continues to grow steadily under the direction of Dr. Malec. Sandy Tun, MD continues to lead collaborative efforts with surgical oncology in improving the care of persons with peritoneal malignancy. The Cardiac Palliative Service has seen growth as it provides support to patients with

advanced heart failure, including patients with left ventricular assist devices and on ECMO. Within the outpatient geriatrics programs, the nationally recognized Successful Aging and Frailty Evaluation (SAFE) Clinic (Katherine Thompson, MD and Megan Huisingsh-Scheetz, MD, MPH - Co-Directors) continues to provide comprehensive geriatric assessment and frailty evaluations for vulnerable older patients as well as serve as a platform for research and teaching efforts. This year the Section welcomed Justine Landi, MD who will conduct geriatric assessments within the transplant nephrology clinic.

During the past year, GPM faculty and fellows provided outstanding care outside the walls of the medical center, and worked the frontline dealing with COVID-19 outbreaks in two nursing facilities that they staff i.e. Montgomery Place (Medical Director -Shellie Williams,MD) and Symphony South Shore



Dr. Jacob Walker

Skilled Nursing and Rehabilitation facilities (Medical Directors Drs. Lauren Gleason and Stacie Levine). In the outpatient arena, Tia Kostas, MD, alongside clinic leadership, quickly developed telehealth options during the shutdown and implemented safety protocols for in-person visits. Dr. Malec worked closely with the team's advance practice providers and Emergency Medicine to provide palliative care to patients and families who were affected most severely by COVID-19.

Research efforts by GPM faculty and staff are supported by a variety of external sources and include investigations that range from important geriatrics syndromes to ethics and end of life care. New grants in FY21 include funding to Dr. Thompson from HRSA for a COVID-19 related training award in support of Geriatrics Workforce Enhancement Program/SHARE Network (COVID-19 Response) and an NIH/AHRQ R18 award focused on improving Chicago older adult opioid and pain management through patient-centered clinical decision support and project ECHO (I-COPE). Dr. Huisingsh-Scheetz received an NIA K23 COVID-19 hardship supplement to continue her work in early frailty biomarkers and measuring patterns of activity and energy expenditure.

Within the Section's educational programs, the Hospice and Palliative Medicine Fellowship (Charles Rhee, MD - Director) and Geriatric Medicine Fellowship (Katherine Thompson, MD - Program Director) established a new combined ACGME accredited Geriatrics and Palliative Medicine Fellowship Program. Dr. Tun coordinated advance care planning corporate training events nationwide in partnership with SHARE network and Oak Street Health. Dr. Levine was awarded bridge funding for continuation of the Coleman Palliative Medicine Training Program and to develop a primary palliative care education program to improve access for patients with cancer. The SHARE Network under the direction of Dr. Thompson continues to expand efforts to educate clinicians, patients and families within the community on best practices to support and care for older adults. Dr. Gleason is implementing clinical quality improvement and education initiatives to transform UCM into an Age-Friendly Health System. Dr. Walker participated in the American Academy of HIV Medicine's "Intensive Course in HIV & Aging" which provides a select group of participants with a unique opportunity for hands-on learning that will improve their ability to care for older adults with HIV. Within the Pritzker School of Medicine Dr. Kostas directed the interprofessional clerkship rotation for M3s.



Dr. Shellie Williams with patient

Dr. Laura Gleason with patient Howard Siegel



PROFESSOR:
Stacie Levine, MD - Chief

ASSOCIATE PROFESSORS:
Monica Malec, MD
Katherine Thompson, MD
Shellie Williams, MD

ASSISTANT PROFESSORS:
Lauren Gleason, MD
Megan Huisingsh-Scheetz, MD
Tia Kostas, MD
A. Justine Landi, MD+
Charles Rhee, MD
Sandy Tun, MD
Jacob Walker, MD

CLINICAL ASSOCIATES:
Michelle Martinchek, MD

SECTION ADMINISTRATOR:
Brad Lane

+ New FY22 faculty

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Megan Huisingsh-Scheetz, MD** - Recipient of the American Geriatrics Society 2021 Arti Hurria Memorial Award for Emerging Investigators in the Subspecialties of Internal Medicine that are focused on the care of older adults
- **Stacie Levine, MD** - Recipient of the American Academy of Hospice and Palliative Medicine Gerald H. Holman Distinguished Service Award
- **Lauren Gleason, MD** - Accepted into the Tideswell AGS Emerging Leaders in Aging Program and recipient of the BSD 2021 Distinguished Clinician Junior Faculty Award
- **Charles Rhee, MD** - Selected to serve on a CMS Clinical Expert Workgroup on Heart Failure
- **Katherine Thompson, MD** - Recipient of the 2021 BSD Distinguished Community Senior Faculty Award
- **Shellie Williams, MD** - Named as a Fellow, American Academy of Hospice & Palliative Medicine; appointed as chair elect of the American Academy of Hospice and Palliative Medicine Black Professionals Special Interest Group
- **Lauren Gleason, MD, Megan Huisingsh-Scheetz, MD and Monica Malec, MD** - Named as Scholar of the Center for Healthcare Delivery and Science Scholars
- **Stacie Levine, MD and Monica Malec, MD** - Named as Top Doctors and Exceptional Women in Medicine by *Chicago* magazine (2021)

SECTION OF Hematology/Oncology



Dr. Sonali M. Smith

In October 2020, Sonali M. Smith, Elwood V. Jensen Professor, was named as Chief of the Section of Hematology /Oncology and Co-Leader of the Cancer Service Line. Dr. Smith is an internationally recognized expert in lymphoma therapeutics with contributions in clinical care, education and clinical research. As Director of the Lymphoma Program for the University of Chicago Medicine (UCM) for a decade, her clinical research interests are in the development of new agents and rational combinations in the management of both treatment-naïve and relapsed/refractory lymphomas.

Dr. Smith serves in a number of leadership positions with national and international visibility. She is Vice-Chair of the Southwest Oncology Group (SWOG) Lymphoma Committee where she oversees clinical trial development at the cooperative group level. She was elected as a Fellow of the American Society of Oncology (ASCO) in 2019, and was awarded the 2021 ASCO Excellence in Teaching Award. She is also the current Chair of the Scientific Committee for the 2022 ASCO Annual Meeting. She is an Associate Editor for *Haematologica*, the world's oldest journal on blood disorders, and is a member of the National Cancer Institute's Lymphoma Steering Committee. In June 2021, she started her two-year term as chair of the Scientific Advisory Board for the Lymphoma Research Foundation, the first woman to hold that position. Dr. Smith has chaired and organized the International John Ulimann Chicago Lymphoma Symposium, now in its 19th year. As a scholar, she has published over 200 publications and lectures extensively nationally and internationally.

In FY21 the Section welcomed four new faculty to the Section: At the professor level, Jing Chen, PhD, was recruited to develop an oncology-focused Metabolomics Institute. He was recently named

as the Janet Davison Rowley Distinguished Service Professor in Cancer Research, and also serves as Associate Vice Chair for Translational Research and Deputy Chief for Basic/Translational Research in the Section of Hematology/Oncology. Dr. Chen also established the first Cancer Metabolomics Research Center which will study the interplay between metabolic and cell signaling networks in order to understand the impact on tumorigenesis, tumor progression, and response to anti-cancer therapies. (see Faculty Highlight page 9). Marina Garassino, MD is an international expert in lung cancer, and now leads the Thoracic Oncology Program. She is a leading investigator on the impact of COVID-19 on patients with lung cancer, with a high-impact publication entitled TERAVOLT in *Lancet Oncology* (see Faculty Highlight page 7). Junior faculty who joined the Section were Benjamin Derman, MD and Adam Duvall, MD. Dr. Derman's academic interests center on plasma cell malignancies, with a particular interest in the role of minimal residual disease in clinical management. Dr. Duvall, fellowship-trained in both pediatric and adult hematology/oncology is interested in the development of a multidisciplinary program for all AYA cancers, including but also extending work in the hematologic malignancies.



Dr. Jing Chen



Dr. Marina Garassino



Dr. Benjamin Derman



Dr. Adam Duvall

Within the clinical programs, the Section has continued to provide innovative patient care, and expansion to network sites. The Section was once again recognized by *USNWR* as one of the top cancer programs in the nation (July, 2021) and over two dozen faculty were recognized as "Top Cancer Doctors" by *Chicago* magazine (January, 2021). Noteworthy in FY21 was the launch of the Multidisciplinary Neuroendocrine Tumor Clinic by Dr. Chih-Yi (Andy) Liao, the first of its kind in the Chicagoland area and the creation of a Post-COVID-19 Clinic in collaboration with General Internal Medicine to serve and study patients with lasting effects of COVID-19 infections under the leadership of Mark Ratain, MD.

Under the direction of Michael Bishop, MD, the Cellular Therapy and Transplant Program achieved the highest CIBMTR clinical outcomes results in program history, the highest overall for the city of Chicago, and the highest as compared to projected outcomes in the city of Chicago. The Program also had the highest number of transplants and cell therapy products delivered in its history out performing FY20 volume with 46% growth despite the pandemic and is the first center in Illinois to offer all commercially-approved CAR-T products. In FY20, the Center was formally named as the David and Etta Jonas Center for Cellular Therapy with increased capacity for manufacturing cells for existing therapies, and new capabilities for processing and manufacturing new types of cellular therapy products for treating blood cancers and benign conditions. Within the Center, Justin Kline, MD serves as Associate Director for Basic and Translational Research, Amittha Wickrema, PhD serves as Associate Director for the Advanced Cellular Therapeutics Facility (ACTF), and Peter Riedell, MD serves as Associate Director for the Clinical Research Program Core.

In network expansion efforts, Blase Polite, MD was appointed as Director of Oncology for the clinically integrated network, and works closely with the Cancer Service Line and the Biological Sciences Division to strengthen a true collaborative culture for network sites.

The Section maintains a very strong and successful program in basic, translational and clinical research. In FY21 section faculty were awarded approximately \$17M in total cost grant funding coupled with an additional \$17M in clinical trial earnings. In FY21, Dr. Chen was awarded two new NIH R01 grants and a UCCCC Team Science Grant that are broadly focused on the interplay between metabolism-related mechanisms, signaling pathways, and the tumor microenvironment in

Dr. Michael Bishop



ACCOMPLISHMENTS AND HIGHLIGHTS:

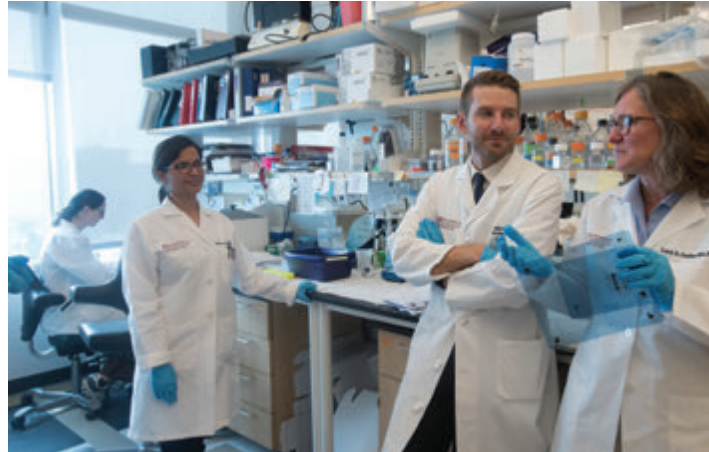
- **Olufunmilayo Olopade, MD** - Elected to the National Academy of Sciences, received the Susan G. Komen Leadership Grant (Translating Breast Cancer Genetics in the Clinic) and was named to Giants of Cancer Care
- **Olotoyosi Odenike, MD** - Named as co-chair of the ASH Education Program 2022; Recipient of the 2021 Nobility in Science Award from the MDS Foundation and the 2020 Fletcher Scholar Award from the Cancer Research Foundation
- **Daniel Catenacci, MD** - Recipient of the National Cancer Institute (NCI) 2021 Cancer Clinical Investigator Team Leadership Award
- **Peter O'Donnell, MD** - Recipient of the 2021 LDH Wood Preclinical Teaching Award, PSOM
- **Eileen Dolan, PhD** - Recipient of the 2021 BSD Distinguished Leader Award in Diversity and Inclusion
- **Ari J. Rosenberg, MD** - Appointed as co-chair of the Alliance Head and Neck Working Group of the Experimental Therapeutics and Rare Tumor Committee
- **Michelle Le Beau, PhD (Emeritus)** - Recipient of the 2021 Michael Reese Lectureship Award and the Gold Key Award from the Biological Sciences Division
- **Wendy Stock, MD** - Recipient of the 2020 American Society of Hematology Mentor Award
- **Philip Hoffman, MD** - Named as chair of Oncology Drugs Advisory Committee, FDA and recipient of the Department of Medicine Distinguished Service Award

SECTION OF
Hematology/Oncology (Cont.)



Dr. Kenneth Cohen and
hematology/oncology fellows

Dr. Lucy A. Godley



several cancer subsets; Olofunmilayo Olopade, MD successfully renewed the highly prestigious K12 grant entitled “Developing an Oncology Workforce for the 21st Century” which supports investigative work by advanced fellows and junior faculty. Lucy Godley, MD, PhD was awarded an NIH U24 to co-chair along with David Wu, MD, PhD (Pulmonary/Critical Care) the Myeloid Malignancy Variant Curation Expert Panel to continue to curate RUNX1 and GATA2 variants for myeloid malignancies. In COVID-19 research, Evgeny Izumchenko, PhD diverted all his research efforts to COVID-19 related projects during the pandemic and established a research saliva collection station to develop a ddPCR assay (to compare to the EUA-FDA approved tests) which was highlighted in multiple news outlets and led to three publications in Scientific Reports, PLOS Computational Biology and Journal of Experimental and Clinical Cancer Research.

In FY21, the Section continued to expand its clinical trial activity, accruing 768 patients in Hyde Park and throughout the network into therapeutic trials. During the COVID-19 pandemic, Walter Stadler, MD in his role as Dean for Clinical Research, worked to rapidly operationalize guidance and policies for the clinical research community, integration of e-consent platforms and training, direct to patient investigational drug distribution for oral agents, and supported the development of 8 COVID-related datamarts supporting over 104 individual researchers. In addition, he worked with Christopher Daugherty, MD (IRB Chair) to fast track 139 individual COVID-19 research protocols, 15 treatment studies, and 3 vaccine trials that enrolled over 870 subjects of whom over 60% were minority populations.

Under the direction of Kenneth Cohen, MD the Section continues to run a highly successful fellowship

program. The 7 fellows selected annually typically come from the highest ranked residency training programs. The Chicago EYES on Cancer Program (Eileen Dolan, PhD- Director), a cancer research training program for high school and college students underrepresented interested in careers in biomedicine and science, recently celebrated 5 years of existence. The Section also holds two T32 Training grants and one K12 grant supporting development of oncology leaders across the learner spectrum.

PROFESSORS:

Sonali M. Smith, MD (Chief)
Michael Bishop, MD
Jing Chen, PhD
Christopher K. Daugherty, MD
M. Eileen Dolan, PhD
Gini F. Fleming, MD
Thomas F. Gajewski, MD, PhD
Marina Garassino, MD
Lucy A. Godley, MD, PhD
Harvey M. Golomb, MD
Phillip Hoffman, MD
Andrzej Jakubowiak, MD, PhD
Hedy L. Kindler, MD
Richard A. Larson, MD
Michelle M. Le Beau, PhD (Emeritus)
Mark Lingen, DDS, PhD
Olatoyosi M. Odenike, MD
Olofunmilayo Olopade, MD
Jyoti Patel, MD
Blase N. Polite, MD, MPP
Mark J. Ratain, MD
Walter Stadler, MD
Wendy Stock, MD
Everett Vokes, MD
Amittha Wickrema, PhD

ASSOCIATE

PROFESSORS:
Daniel Catenacci, MD
Kenneth Cohen, MD
Olwen Hahn, MD
Justin Kline, MD
Hongtao Liu, MD, PhD
Rita Nanda, MD
Peter O'Donnell, MD
Russell Szmulewitz, MD
Michael J. Thirman, MD
Yonglian Zheng, PhD*

ASSISTANT

PROFESSORS:
Christine Bestvina, MD
Nan Chen, MD+
Benjamin Derman, MD
Michael Drazer, MD
Adam Duvall, MD
Brandon Faubert, PhD+
Evgeny Izumchenko, PhD
Satyajit Kosuri, MD
Angela Lager, MD
Chih-Yi (Andy) Liao, MD
Mariam Nawas, MD+
Daniel Olson, MD+
Anand Patel, MD+
Akash Patnaik, MD
Alexander Pearson, MD, PhD
Peter Riedell, MD
Ari Rosenberg, MD
Ardaman Shergill, MD
Randy Sweis, MD
Xue Gao, PhD*

INSTRUCTORS:

Jonathan Trujillo, MD+
Tien Truong, MD

CLINICAL

ASSOCIATES:
Simona Chivu, MD
Mark Kozloff, MD
Tabraiz Mohammed, MD
Sumila Narula, MD
Anu Neerukonda, MD
Shayan Rayani, MD
James Wallace, MD

SECTION
ADMINISTRATOR

Jerry Schissler

*Research track faculty
+New FY22 faculty

SECTION OF
Hospital Medicine



Dr. David Meltzer

With leadership by David Meltzer, MD, PhD, the Section of Hospital Medicine (HM) continues to be recognized for its innovative patient care, research and educational programs. Section faculty care for some of the most medically complex patients admitted to the University of Chicago Medicine (UCM). During the COVID-19 pandemic HM helped lead the COVID-19 response by providing excellent clinical care to the majority of hospitalized COVID-19 patients, along with related education and leadership, while continuing to grow and expand other inpatient services. HM faculty also conducted novel COVID-19 related research resulting in a \$1.7M award to study the effects of vitamin D on COVID-19 outcomes and a high impact paper in JAMA, 2020 with over 370,000 online views to date and an altmetrics of over 3000, putting it in the top 1000 of scientific papers ever ranked.

In FY21, Gilmer Rodriguez, MD joined the HM faculty as an assistant professor of medicine. His academic interests include telemedicine, patient safety and patient, and plans to create a Telehealth Post-Discharge Clinic (Program) to improve continuity of care.

In FY21, HM faculty implemented innovations and improvements to the electronic health record (EHR) system, EPIC, resulting in more efficient workflows for hundreds of providers and better quality documentation and processes. Since its launch in October 2018, the Clinical Pathway Program has developed and implemented over 70 integrated clinical pathways. Cheng Kai Kao, MD, Associate Chief Medical Information Officer, led the development, implementation, and evaluation of the integrated clinical pathway (ICP) program at UCM.

Hospital Medicine was integral in planning and implementing management of COVID-19 patients. From the beginning of COVID-19, HM providers volunteered to be on the front lines of the COVID-19 unit, caring for and discharging more than 1,100

COVID+ patients. HM contributed to the staffing of the COVID-19 inpatient unit from its onset until the day it was decommissioned. At the peak of COVID-19, 9 hospitalists provided 24/7 coverage for the majority of the non-ICU COVID-19 patients, including caring for high oxygen requiring patients that would typically be in the ICU to help offload the ICU burden of COVID-19 patients. HM providers also provided clinical care and taught residents on dedicated COVID-19 teams at Mercy Hospital.

The Section also led efforts in forming the admission order sets and inpatient treatment pathways, and were integral in creating and reviewing several floor protocols for COVID patients, including an early proning protocol. The COVID-19 pandemic has required healthcare systems to meet new demands for rapid information dissemination and practice change. To address these challenges, Section leaders developed a suite of over twenty COVID-19 specific integrated clinical pathways (ICPs) in the EHR addressing triage, diagnosis, and management of COVID-19 in diverse patient settings, averaging over 450 user interactions per day and 340 unique pa-



Dr. Gilmer Rodriguez

Drs. Volmir and Bao
with staff nurse



Dr. Molitch-Hou with
Michael Sun (medical student)

tient encounters where orders are placed a day. Cumulatively, over 127,000 pathway views and 137,000 orders placed through pathways in year 2020. These efforts were spearheaded by Dr. Kao and Matthew Cerasale, MD, Section Director of Quality Improvement. ICPs enabled the placement of orders for isolation precautions, testing and treatment directly from the pathway interface into the EHR. Since the beginning of the pandemic, these COVID-19 ICPs have been accessed 202,458 times by 3,836 clinicians in 129,182 unique encounters. These ICPs continue to be a critical tool leveraged by clinicians and hospital administrators for the management of COVID-19 at UCM. The Section also aided with the development of the Dr. Cart response for COVID teams. Several Hospitalists worked on the COVID resource pager and the Scarce Resource Allocation Triage Team.

The Section's research portfolio consisted of over \$12 million in extramural funding in FY21 and in the midst of the pandemic, the Section published high impact papers on the effects of vitamin D on COVID-19, physical distancing in the hospital, virtual education during the crisis, the role of hazard pay, and laid the

groundwork to continue to collaborate and publish continued work on the long-term effects of COVID-19 on the population. New grants received by Dr. Meltzer included a P30 center grant entitled "Center for Health Aging Behaviors and Longitudinal InvestigationS (CHABLIS)" to create and promote a sustained research and infrastructure development program that leverages longitudinal data to examine how demographic and economic factors facilitate or suppress individual healthy aging behaviors and, in turn, influence outcomes among older adults over the life course; a new a \$3M award from Patient-Centered Outcomes Research Institute (PCORI) and a ITM supplement for \$1.7M to study low versus moderate to high dose vitamin D for prevention of COVID-19 in health care workers. Ishanu Chattopadhyay, PhD received DOD/DARPA award focused on quantification and dissipation of cognitive dissonance via recursive decision forests.

Hospital Medicine faculty continue to be actively engaged in teaching and training of the next generation of physicians and physician scientists at the medical school, residency and at the post graduate level. In FY20/21, Drs. Elizabeth Murphy and Shannon Martin developed and launched the inaugural Passport for Clinical Teaching Program to provide opportunities for hospitalists to expand their skills in providing medical education. Drs. Meltzer and Micah Prochaska continued their work in CHARISMA, a program that prepares undergraduate students from

populations underrepresented in medicine and the sciences to become clinical research leaders to address the health needs of an aging America, as well as The Collegiate Translational Medicine Program (CTMP), a mentored, clinically-oriented translational research experience for undergraduates, offering training in translational research by exposure and immersion into specific research projects currently being conducted in the Department of Medicine.

During the COVID-19 pandemic, HM faculty created Interdisciplinary Case Conferences that were attended by members of various areas of the Department of Medicine and the Department of Anesthesia to disseminate information regarding COVID-19. In addition, PA-C Bridget McGrath developed, implemented and evaluated a curriculum for Virtual Clinical Internal Medicine Rotations (A Student in my Pocket: Development of a Virtual Internal Medicine Hospital Rotation during the COVID-19 Pandemic) to meet the needs of private PA programs negatively impacted by the COVID-19 pandemic, and NPA Meggan Forbes developed and provided virtual trainings including "Hospital Medicine for Non-Hospitalists During COVID" for DOM providers. Maylyn Martinez, MD produced and hosted a web series, "IMPACTful Chats for Illinois Medical Professionals Action Collaborative Team," that focused on highlighting advocacy around COVID-19 in Illinois and combating COVID-19 misinformation.



Dr. Matthew Cerasale



ACCOMPLISHMENTS AND HIGHLIGHTS:

- **David Meltzer, MD, PhD** - Appointed to the National Academies Committee on Building Data Capacity for Patient-Centered Outcomes Research
- **Matthew Cerasale, MD** - Awarded the 2020 General Internal Medicine Teaching Attending of the Year from Mercy Hospital; appointed to Performance Measurement and Review Committee for the Society of Hospital Medicine (SHM)
- **John Yoon, MD** - Recipient of the 2020 George F. O'Brien Award for Outstanding Contributions to Medicine Mercy IM Housestaff
- **Maylyn Martinez, MD** - Appointed as Deputy Director of the University of Chicago US Cochrane Network affiliate
- **Micah Prochaska, MD** - Appointed Assistant Director of MacLean Center for Clinical and Medical Ethics; received Fellow in Hospital Medicine Distinction from Society of Hospital Medicine (SHM); appointed to Ethics Committee at Society of General Internal Medicine; appointed to the SHM Research Committee

PROFESSOR:	David Hwang, MD
David Meltzer, MD, PhD (Chief)	Stephen Jurmic, MD
Jeanne Farnan, MD, MHPE	Katarzyna Kadela, MD
Robert Gibbons, PhD	Batul Kagadawala, MD
	Ali Khan, MD
ASSOCIATE PROFESSORS:	Ehtasham Khattak, MD
Brian Callender, MD	Grace Berry LaShore, MD
Anton Chivu, MD	Christina Lin, MD+
Cheng-Kai Kao, MD	Xixi Luo, MD
Shannon Martin, MD, MS	Nathaniel Meadow, MD+
John Yoon, MD	Caleb Murphy, MD+
	John Murray, MD
	Elvisa Orhani, MD
ASSISTANT PROFESSORS	Vimal Patel, MD+
Matthew Cerasale, MD, MPH	David Pavkovich, MD
Ishanu Chattopadhyay, PhD	Peter Petropoulos, MD+
Thomas Chen, MD, PharmD	Dragana Radovanovic, MD
Vincent DiMaggio, MD	Felicia D'Souza Ratnaraj, MD
V. Ram Krishnamoorthi, MD, MPH	Alexander Reisner, MD
Ethan Molitch-Hou, MD, MPH	Edwin Rosas, MD
Elizabeth Murphy, MD	Nadia Sattar, MD
Khanh Nguyen, MD+	Natasha Singh, MD
Justin Porter, MD+	Caroline Skolnik, MD
Micah Prochaska, MD, MS	Arti Tewari, MD+
Gilmer Rodriguez, MD	Alvin Thomas, MD+
Gregory Ruhnke, MD, MS, MPH	Sandeep Tummala, MD
Andrew Schram, MD, MBA	Maya Viner, MD
Joyce Tang, MD, MPH	Katarzyna Volmir, MD+
	Rebecca Wilson, MD
	Jay Yarlagadda, MD+
	Madhu Yarlagadda, MD
INSTRUCTOR	Tina Zhu, MD
Maylyn Martinez, MD+	
CLINICAL ASSOCIATES AND SCHOLARS	SECTION ADMINISTRATOR
Azka Afzal, MD	Rebecca Schedin, MPPA
Daniel Aldrich, MD	
Lihua Bao, MD	+New FY22 faculty
Nicole Bendin, MD	
Dhruvatej Boddupalli, MD+	
Ashley Brown, MD+	
Kwang Jin Choi, MD	
Tatvam Choksi, MD	
Anthony de la Peña, MD	
Abhishek Dhar, MD+	
Quoc-Duy Dinh, MD	
Dana Edelson, MD, MS	
Magdy El Din, MD	

SECTION OF

Infectious Diseases & Global Health



Dr. Jennifer Pisano

On July 1, 2021, Jennifer Pisano, MD, associate professor of medicine, assumed interim leadership of the Section of Infectious Disease & Global Health (IDGH) following the retirement of David Pitrak, MD who served as chief for 19 years. Dr. Pisano has broad expertise in all areas of infectious diseases, and serves in key leadership roles within the University of Chicago Medicine (UCM), including medical director of the Antimicrobial Stewardship Program (ASP). Dr. Pisano received her MD at Rush Medical College in 2005 and completed her internal medicine residency, infectious diseases fellowship and advanced fellowship training in infectious diseases/transplant infectious diseases at the University of Chicago. She is a graduate of the Infectious Diseases Society of America (IDSA) Leadership Program, one of 30 ID physicians invited to participate in the inaugural IDSA Leadership Institute training program. Dr. Pisano's research is focused on leveraging the electronic medical record to optimize antibiotic prescribing and identify high-impact stewardship interventions. She served on the Antimicrobial Stewardship Committee for the Society for Healthcare Epidemiology of America and as the Society for Healthcare Epidemiology of America's liaison for American Transplantation Society's white paper on antimicrobial stewardship. She has published nearly 3 dozen papers and book chapters.

In FY21 the IDGH section contributed immensely to the institution's response to the COVID-19 pandemic. Emily Landon, MD, Stephen Weber, MD and Dr. Pisano played key roles in pandemic planning and implementation for UCM as members of the Hospital Incident Command System (HICS) team. Additionally, Drs. Landon and Weber were influential in developing the plans for the State of Illinois. Jon Lio, MD and Moira McNulty, MD managed the callback program for COVID-19 positive outpatients and Jessica Ridgway, MD supervised the safe clearance of patients under investigation (PUI's) for COVID-19 on the inpatient services early in the pandemic. Dr. Pisano oversaw the program to administer EUA approved monoclonal antibodies to outpatients with symptomatic COVID-19 who were at risk for severe disease. Other faculty members, advanced practice providers, and fellows were involved in clinical care, including the management of COVID-19 patients, as well as continuing to provide care for the other patients through the consultative services.

During the rapid implementation of the COVID-19 vaccination clinic, IDGH contributed to the prioritization of patients for COVID-19 vaccination, always mindful of the minority populations on the South Side who were disproportionately affected by the pandemic. The Section joined the COVID-19 Prevention Network (CoVPN) to conduct the Moderna mRNA 1273 vaccine study and remdesivir trials with Kate Mullane, DO as PI. This site was highly successful with enrollment and retention, especially with inclusion of racial and ethnic minority populations. In collaboration with the Emergency Medicine, the Section was able to maintain HIV screening volumes during the COVID-19 pandemic. John Schneider, MD led the COVID-19 preparedness efforts at the 55th Street Howard Brown Clinic and continues to be involved with community engagement.

In FY21, IDGH continued to provide outstanding consultative services 24/7 to ensure optimal and timely management of serious infectious diseases (4 services; General Infectious Diseases, Immunocom-



Dr. Emily Landon at a press conference with Governor J.B. Pritzker & Mayor Lori Lightfoot

promised Host, and 2 Advanced Practice consult services). The Section maintained the Outpatient Antibiotic Therapy Program, a joint effort between the Antimicrobial Stewardship Program, Pharmacy and the Section, that includes follow up of patients seen in consultation who are discharged on IV antibiotic therapy. Under the direction of Dr. Pisano, ASP continues to make great contributions to the medical center by assuring appropriate antimicrobial use at UCM, not only through day to day review of antibiotic usage, but also innovative education efforts aimed at both physicians and patients. Under the direction of Dr. Landon, the Infection Control Program continues to meet all its goals with respect to hand hygiene, central line associated bloodstream infections, and catheter associated UTIs, and continues to combat C. difficile infection in the hospital. These accomplishments contribute significantly to the UCM's perennial A rating from the Leapfrog Group.

Within the Section, the Chicago Center for HIV Elimination (John Schneider and David Pitrak, co-directors) provides care for HIV-infected patients, as well as screening, prevention education treatment for pediatric HIV patients who are transitioning to adult care and post-partum care for HIV-infected women and their exposed children. With continuous funding from the CDPH since 2011, Dr. Pitrak continued to focus his efforts on expanded HIV testing and linkage to care (X-TLC) for disproportionately affected populations in healthcare settings at UCM and at 12 other sites on the South and West Sides of Chicago. Drs. Pitrak, Schneider, and Rosebush (Peds ID) serve as co-PI's for the new CDPH-funded South Side Health Home (S2H2). Dr. Mai Pho's HCV testing also continued to expand while also directing linkage to care efforts.

In FY 21, the Section's research portfolio continued to expand totaling over \$12M. New awards include Dr. Schneider's NIH U2 to develop a Methodology and Advanced Analytics Resource Center (MAARC) to investigate opioid use disorder within justice contexts,

and a R01 focused on PrEP intervention models for young black MSM. In COVID-19 related research, Dr. Mullane continued as PI of the NIH-sponsored Moderna COVID-19 vaccine study, and will follow vaccine recipients and their immune status for 25 months. She will continue to pursue novel antiviral therapies for COVID-19, in addition to continuing her trials of new therapies for immune-compromised patients. Drs. Pho and Schneider received a \$ 5 million grant for "Community Network-driven COVID-19 Testing of Vulnerable Populations in the Central US (C3)" that aims to implement and evaluate a COVID-19 testing approach that combines social network testing with community developed COVID-19 public health messages. Anna Hotton, PhD received federal funding to model the impact of social determinants of health on COVID-19 transmission and mortality to understand health inequities. Renslow Sherer, MD received an award from HRSA to conduct HIV-COVID-19 training sessions in the 10 state MATEC region.

In the educational arena, IDGH faculty presented at a number of UCM's town hall meetings and to the Board of Directors related to COVID-19 and the vaccines. Dr. Pisano and Dr. Schrantz were key faculty for ECHO-Chicago, COVID-19 in Adults, engaging with hundreds of participants biweekly over the course of 15 months to discuss the evolving management of COVID-19. The Wuhan University Medical Education Reform (WUMER) Project, (Renslow Sherer, MD, Director and Associate Director, Jon Lio,

MD) is now in its eleventh year, continues to lead faculty development, undergraduate curriculum improvement, and residency training at Wuhan University. Over sixty UC faculty members and trainees have visited Wuhan University to participate in the program. This international collaboration has resulted in the publication of 38 papers and one book on medical education reform at Wuhan University. In addition, the WUMER Project has managed a resident exchange with the Peking Union Medical College Hospital in Beijing for the past 5 years involving the departments of Surgery, Medicine, and Pediatrics. Since 2019, the International Medical Educators Program (IMEP) has trained 20 graduate medical education directors in China from Wuhan University, Sun Yat Sen, and the Peking Union Medical College Hospital annually.

PROFESSORS

David Pitrak, MD **	Aditya Khanna, PhD *
Kathleen Mullane, DO, PharmD	Jonathan Lio, MD
Eric Pamer, MD	Moira McNulty, MD, MPH
Kenneth Pursell, MD	Daniel Motley, PhD*
John Schneider, MD, MPH,	Maria Pyra, PhD, MPH *
Renslow Sherer, MD	
Stephen Weber, MD, MS	INSTRUCTOR
	Jade Pagkas-Bather, MD

ASSOCIATE

PROFESSORS	SECTION ADMINISTRATOR
Jean-Luc Benoit, MD	Jimmy Jung
Emily Landon, MD	
Mai Pho, MD, MPH	
Jennifer Pisano, MD (Interim Chief)	
Jessica Ridgway, MD, MPH	+New FY22 faculty
	* Research track faculty
	**Emeritus

ASSISTANT

PROFESSORS
Russell Brewer, DrPH, MPH*
Anirrhuda Hazra, MD
Anna Hotton, PhD, MPH*
Daniel Friedman, MD+

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Mai Pho, MD** - Named to the Population and Public Health Approaches to HIV/AIDS Study Section, Center for Scientific Review
- **Emily Landon, MD** - Received an honorary doctorate from Augustana University for her national recognition for prevention efforts during the COVID-19
- **Drs. Jean Luc Benoit, Kathleen Mullane, David Pitrak, Kenneth Pursell, and Stephen Weber, MD** - Named as 2021 Top Doctors by *Chicago* magazine
- **Kate Mullane, DO** - Named to *Chicago* magazine's list of Exceptional Women in Medicine

SECTION OF Nephrology



Dr. Arlene Chapman

Under the direction of Arlene Chapman, MD, the Section of Nephrology continues its multidisciplinary mission of excellence in clinical care, education and scholarly activity. The Section's dialysis units have been recognized for quality of patient care by the CMS star-rating system with the Woodlawn outpatient dialysis unit led by Mary Hammes, MD, and the Kenwood unit led by Bharathi Reddy, MD, receiving 4 out of 5 stars. The Kenwood Home Dialysis led by Orly Kohn, MD, received 5 stars marking the first time a home dialysis unit has been star rated. The Nephrology ambulatory clinic team was recognized by the Healthcare Heroes Recognition Program for its stellar performance on the Press Ganey Patient Experience metrics. Inpatient dialysis treatments continue to climb, averaging 645 intermittent hemodialysis treatments/month and 312 continuous renal replacement treatments/month. This increase in treatment number represents the overall increase in patient acuity, ICU admissions and the growth of the trauma center at UCM.

In FY21, three new faculty joined the Section at the rank of assistant professor: Samantha Gunning, MD is focusing on advanced chronic kidney disease to facilitate patients receiving home dialysis care and is completing her MPH with a specific focus on acute kidney injury in the setting of advanced cardiopulmonary life support; Sambhavi Krishnamoorthy, MD, is improving access to transplant education in CKD 4 and CKD 5 patients with highlighting the benefits of preemptive living kidney transplantation; Yousuf Kyeso, MD is focused on noninvasive monitoring of kidney transplant injury and studying long term outcomes of multi-organ transplant recipients.

Within the clinical programs, the Section continued to provide outstanding inpatient kidney care to patients with cancer, heart and liver problems with excellent patient outcomes for 30 day survival and discharge-to-home that are significantly better than the national average. Kidney transplants

in FY21 increased 54% compared to FY20 with living donors increasing from 19 to 29 and deceased donors increasing from 73 to 113. In new initiatives, Dr. Samantha Gunning is leading a Transitional Care Unit, providing tailored treatments for patients new to dialysis, with more frequent provider interaction and a patient-centric education curriculum. Working with the Primary Care Group and Geriatrics, Drs. Gunning and Bharathi Reddy have begun a targeted program geared towards patients with late stage chronic kidney disease (CKD4 and CKD5).

The Section's response to the COVID-19 pandemic was noteworthy. Several of faculty and fellows volunteered for inpatient floor and ICU COVID-19 coverage with privileges being given to advanced fellows. Special attention was given to the care of transplant patients and the placement of patients requiring dialysis. Updated best practices for renal ICU patients and urine microscopy were detailed



Dr. Samantha Gunning



Dr. Sambhavi Krishnamoorthy



Dr. Yousuf Kyeso



Dr. Josephson with patient

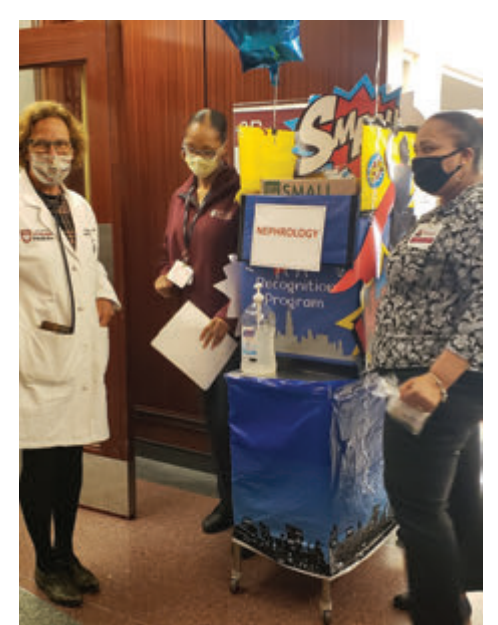
and quickly communicated. During the pandemic, the outpatient dialysis providers continued to work directly with patients who arrived at the units from the community three times a week.

The Section of Nephrology is proud of its innovative bench, translational and patient oriented investigations in polycystic kidney disease, acute kidney injury, epithelial cell transport, growth, and gene expression, and the pathophysiology of kidney stone formation. Hatim Hassan, MD, PhD continues his NIH funded work focused on elucidating the molecular mechanisms regulating intestinal oxalate transport and developing a novel drug delivery system to enable an oral peptide-based drug for kidney stones. Dr. Chapman continued her investigations on identifying biomarkers in PKD. New in FY21 was an institutional CTSA pilot award to Megan Prochaska, MD to investigate how bariatric surgery leads to increased kidney stone risk.

The Nephrology Fellowship Program (Anna Zisman, MD - Program Director) successfully recruited four outstanding fellows for FY22, including trainees from the Department's residency program. Other educational highlights include the receipt of a new UC2/KL2 Nephrology Urology and Hematology Training Program Award that includes six Chicago institutions with funding for 5 predoctoral and 5

postdoctoral positions, starting July 1st, 2021. Dr. Hassan received funding for 9 summer research fellowships from the Biological Sciences Collegiate Division to support students interested in conducting 10 weeks of research in pathophysiology, biology, and bioenergetics of renal diseases under the supervision of a faculty mentor.

Dr. Chapman at the Healthcare Heroes Recognition Program



PROFESSORS: Arlene Chapman, MD (Chief) Fredric Coe, MD Michelle Josephson, MD Jay Koyner, MD Elaine Worcester, MD	ASSISTANT PROFESSORS: Samantha Gunning, MD Sambhavi Krishnamoorthy, MD Yousuf Kyeso, MD
ASSOCIATE PROFESSORS: Patrick Cunningham, MD Mary Hammes, DO Hatim Hassan, MD, PhD Benjamin Ko, MD Rita McGill, MD Tipu Puri, MD, PhD Bharathi Reddy, MD Nicole Stankus, MD Anna Zisman, MD	INSTRUCTOR: Megan Prochaska, MD
	CLINICAL ASSOCIATE: John Asplin, MD
	SECTION ADMINISTRATOR: Matthew Lagen
	Administrative Assistant: Tishena Wilson

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Arlene Chapman, MD** - Recipient of the Lillian Jean Kaplan International Prize for excellence and leadership in Polycystic Kidney Disease
- **Hatim Hassan, MD, PhD** - Selected as one of the Illinois Science and Technology Coalition's "Researchers to Know" under the category of "Fighting Disease" for his research on oxalate and kidney stone formation in relation to gut bacteria
- **Michelle Josephson, MD** - Elected council member of the American Society of Nephrology
- **Ben Ko, MD** - Joined the ASN's Workforce and Training Committee
- **Tipu Puri, MD, PhD** - Appointed as UCM's Associate Chief Medical Officer for University of Chicago Medicine
- **Bharathi Reddy, MD** - Elected to the Board of Directors for ESRD Network 10
- **Nicole Stankus, MD** - Joined the ASN's Nephrologists Transforming Dialysis Safety - Human Factors Workgroup
- **Anna Zisman, MD** - Recipient of the BSD Distinguished Leader in Program Innovation Award

SECTION OF Pulmonary/ Critical Care Medicine



Dr. Gökhan Mutlu

Led by Gökhan Mutlu, MD, the Section of Pulmonary and Critical Care Medicine (P/CC) continued its excellence in patient care, education, and research. Highlights from FY21 include the addition of 4 physician-scientists and an interventional pulmonary expert; improved standing in the *US News and World Report 2021-22 Best Hospitals* ranking at #45, and significant growth in research funding. In addition, the Section made substantial contributions during COVID-19 pandemic with expanded MICU services as well as significant research and scholarly work.

In FY21, five faculty at the rank of assistant professor joined the Section. Ayodeji Adegunsoye, MD studies the role of genetics in interstitial lung disease to improve disease classification and clinical outcomes. William F Parker, MD focused his work on machine learning and artificial intelligence to create a fair and efficient allocation system particularly for scarce healthcare resources. He has recently successfully applied his skills to resource allocation in COVID-19. Nathan Schoettler, MD, PhD utilizes his expertise in immunology and genetics/genomics studying to study the role of T-cells in asthma. Ajay Wagh, MD is an expert in interventional pulmonary with interest in solitary pulmonary nodules. David Wu, MD, PhD conducts cutting edge basic research by combining cellular metabolism with flow sensing to understand the mechanisms of vascular dysfunction and disease.

In response to increased number of COVID-19 hospitalizations, the UCM created four COVID-19 Cohort ICUs with a total bed capacity of 48. Section faculty and fellows staffed these ICU's in addition to the MICU. In order to meet the demand on clinical rotations were reorganized in order to increase the number of fellows and faculty providing care in the

ICUs. In addition, P/CC faculty participated in committees that were formed in response to COVID-19 including committees that addressed the allocation of scarce resources, medical and non-medical management of COVID-19, achieving equity in vaccination, and assessment for COVID-19-related sequela after discharge and their management.

Clinically, outpatient clinical volume has recovered from COVID-19 and grown further in part due to continued telehealth visits. With the recruitment of Dr. Wagh the Interventional Pulmonary Program co-led by Septimiu Murgu, MD and Kyle Hogarth, MD continues to be the largest program in Chicago area. Under the leadership of Dr. Wagh, the Section established the virtual solitary Pulmonary Nodule Clinic to increase patient access. Under the leadership of Mary Strek, MD, the Interstitial Lung Disease (ILD) Program is recognized as a Pulmonary Fibrosis Foundation Care Center and remains one of the top programs nationally. On the inpatient side, the census in MICU has grown by 50% necessitating the initiation of a third MICU service to support the two MICU teams. Lastly a new clinic and home sleep program was established in the River East clinic.

The Section's robust research program had another successful year securing extramural support.



Dr. Ayodeji Adegunsoye



Dr. William F Parker



Dr. Nathan Schoettler



Dr. Ajay Wagh



Dr. David Wu



Pulmonary/Critical Care faculty, fellows and APN's

Dr. Wu received the R00 portion of his K99/R00 award to study the role of endothelial metabolism in proinflammatory blood types such as seen in sepsis and acute lung injury. Dr. Schoettler received a K08 award to elucidate the role of genetic variation in regulating the expression of genes in specific lung cell types such as T-cells that play a critical role in asthma. Bhakti Patel, MD was awarded a K23 to apply precision medicine to identify patients who are most likely to benefit from early mobilization and elucidate how it can be implemented successfully to extend the benefits of early mobilization to patients at risk for long-term disability. Nickolai Dulin, PhD, received an R01 grant to study the role anoctamin-1/TMEM16A in TGF- β -induced proliferation and differentiation of lung fibroblasts to myofibroblasts. Steve White, MD received an R21 award to study the IL-6 high phenotype in childhood asthma. In a collaborative work between U Chicago, Northwestern and UIC, Dr. Mutlu received the Chicago Biomedical Consortium Award to study the mechanisms that predisposes individuals with severe COVID-19 to the development of pulmonary fibrosis.

On the educational front, the Section's faculty continue to lead in teaching and training. The T32 training program co-led by Dr. Sperling and Julian Solway, MD entered its 36th year. The pulmonary and critical care fellowship program director, Jason Poston, MD received the Favorite Faculty Award from the Pritzker School of Medicine graduating students for the ninth year in a row. The Section continues to recruit outstanding fellows into their three fellowship programs: pulmonary and critical care medicine, sleep medicine and interventional pulmonary. The majority of graduates of the pulmonary and critical care fellowship program continue to remain in academic medicine.

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Yun Fang, PhD** - Selected for the B. Lowell Langille Vascular Biology Lectureship at the University of Toronto
- **Septimiu Murgu, MD** - Served as Chair, CHEST education committee, and appointed as president-elect of American Association for Bronchology & Interventional Pulmonology
- **Kyle Hogarth, MD** - Received the ACCP Distinguished Chest Educator designation; appointed to the Medical and Scientific Advisory Committee of Alpha One Foundation
- **Julian Solway, MD** - Launched the ITM's The New Normal (TNN) Campaign; elected to serve as treasurer, Association for Clinical and Translational Science; recipient of the Department of Medicine's 2021 Distinguished Service Award.

PROFESSORS:

Gökhan M. Mutlu, MD (Chief)
 Kyle Hogarth, MD
 John P. Kress, MD
 Babak Mokhlesi, MD
 Septimiu Murgu, MD
 Edward Naureckas, MD
 Julian Solway, MD
 Anne Sperling, PhD
 Mary Strek, MD
 Steven White, MD

Lucas Kimmig, MD+
 Alejandra Lastra, MD+
 William F Parker, MD
 Bhakti Patel, MD
 Nathan Schoettler, MD, PhD
 Ajay Wagh, MD+
 Krysta Wolfe, MD
 David Wu, MD, PhD

INSTRUCTORS:

JC Rojas, MD
 Cathryn Lee, MD+

ASSOCIATE PROFESSORS:

Remzi Bag, MD
 Bohao Chen, PhD*
 Nickolai Dulin, PhD
 Yun Fang, PhD
 John McConville, MD
 Jason Poston, MD
 Esra Tasali, MD

SECTION ADMINISTRATOR:

Elneda Boyd

*Research Associate track faculty
 +New FY 22 Faculty

ASSISTANT PROFESSORS:

Ayodeji Adegunsoye, MD
 Robert D. Guzy, MD, PhD
 Robert B. Hamanaka, PhD*
 Renea Jablonski, MD

SECTION OF Rheumatology



Dr. Marcus Clark

The Section of Rheumatology, led by Marcus Clark, MD, continued its tradition of clinical excellence, innovative research and outstanding clinical training focused on understanding autoimmunity with the goal of improving the care of those afflicted with diseases such as lupus, rheumatoid arthritis, and vasculitis. In the past year, Section faculty contributed to major advancements in the field of immunology as well as COVID-19 research that have the potential to translate into cutting edge treatments for those suffering from autoimmune diseases and COVID-19.

The Section continues to build on robust and integrated programs in lupus (Drs. Kichul Ko and Kimberly Trotter), polymyositis and interstitial lung disease (Drs. Iazsmin Ventura and James Curran) and inflammatory arthritis including an ultrasound center (Reem Jan, MD). The clinical efforts in polymyositis are complemented by a translational investigative program led by Vladimir Liarski, MD to understand the in situ immune response driving local muscle damage. A newly evolving area in rheumatology is the broad spectrum of autoimmune and inflammatory complications that arise from immunotherapy for cancer, immune-related adverse events (irAEs). This effort is led by Pankti Reid, MD who has developed dedicated irAE clinics and a streamlined inpatient irAE consult service. These clinical service lines are complemented by clinical trials which offer patients access to novel therapies for difficult to treat diseases especially lupus and irAEs. Clinically, the Section is pursuing novel ways to modulate immunity to treat human disease. These efforts included cutting edge trials in lupus, clinical research into the pathophysiology of immunotherapy-related adverse events and a randomized control trial of low dose tocilizumab in the treatment of COVID-19.

The Section continues to be a highly productive research enterprise with nearly \$9M in extramural funding and several high-impact publications in *Immunity*, *Nature Immunology* and *the Journal of Clinical Investigation*. New grants in FY21 included an NIH R01 awarded to Dr. Clark to study the role of CXCR4 in immunoglobulin light chain recombination as well as an Alliance for Lupus Research Award to investigate in situ adaptive immunity in lupus tubulointerstitial inflammation. Fotini Gounari, PhD also received an NIH R01 to explore the epigenetic mechanisms of carcinogenesis by commensal viruses.

The Section of Rheumatology made several notable contributions to the understanding of the immune response to COVID-19 and to the role of the immune system in disease. This work is supported by several new grants. Two efforts are particularly notable. Dr. Wilson, in an extensive series of elegant studies, demonstrated how infection with SARS-CoV-2 can select for a humoral response largely driven by non-neutralizing viral epitopes. In contrast, vaccines are much more effective in driving effective, neutralizing immunity. These data provide a compelling rationale for vaccine use even in those previously



Dr. Pankti Reid

infected with SARS-CoV-2. Also, this last year Dr. Reid launched a phase two clinical trial of low dose tocilizumab in the treatment of COVID-19 patients (COVIDOSE2) to determine if early use can mitigate the subsequent cytokine release syndrome.

The Section's fellowship program has been selected for the American College of Rheumatology's Fellowship Training Award for FY22, for the 6th time

in 7 years, in recognition of the outstanding clinical and academic quality and success of the training program. In other educational initiatives, Dr. Reid is piloting the IrAE teaching clinic and adjunct medical education research through University of Chicago's Medical Education Research, Innovation, Teaching, and Scholarship (MERITS) Program. The Section continues to be the home of the NIH Medical Scientist Training, now in its 55th year.

ACCOMPLISHMENTS AND HIGHLIGHTS:

- **Kimberly Trotter, MD** - Recipient of the 2020 DOM Clinical Productivity Award for Patient Visits.
- **Pankti Reid, MD** - Recognized as one of eleven rheumatologists on a national committee dedicated to studying rheumatic irAEs ("RADIOS")
- **Iazsmin Ventura, MD** - Appointed as a member of the International Myositis Assessment & Clinical Study Group

PROFESSORS

Marcus Clark, MD (Chief)
Maria-Luisa Alegre, MD, PhD
James Curran, MD
Michael Becker, MD+
Leif Sorensen, MD, PhD+

Kimberly Trotter, MD
Iazsmin Ventura, MD
Pankti Reid, MD

SECTION ADMINISTRATOR

Ann Leu

ASSOCIATE PROFESSORS

Fotini Gounari, PhD
Malay Mandal, PhD*

+Emeritus
*Research Associate track faculty

ASSISTANT PROFESSORS

Reem Jan, MD
Kichul Ko, MD
Vladimir Liarski, MD

Internal Medicine Residents

2022 Chief Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Ross McMillan	IV	Johns Hopkins University
Kathleen Wiest	IV	University of Chicago
Michael Jacobs	IV	Thomas Jefferson University
Marie Dreyer	IV	Medical College of Wisconsin

Third Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Mary Acosta	III	Florida Atlantic University
Juan Alban	III	University of Illinois
Sean Anderson	III	Medical College of Wisconsin
Jesse Drapekin	III	Case Western Reserve University
Claire Dugan	III	University of Chicago
Ramon Durazo	III	University of Southern California
Christopher Fernandez	III	University of Illinois
Rachel Folz	III	Thomas Jefferson University
Ashish Gandhi	III	Emory University
Peter Georginis	III	St. George's University
Daniel Gold	III	Wayne State University
Matthew Gold	III	Duke University
Jia Guo	III	University of Chicago
Gong He	III	Wayne State University
Lauren He	III	University of Michigan
Rachel Karani	III	University of Cincinnati
Dan Klarr	III	University of Michigan
Nathan Kong	III	Northwestern University
Alice Lee	III	University of Chicago
Kimberly Lu	III	Boston University
Kristen Mathias	III	Baylor University
Lucia Notardonato	III	Medical College of Wisconsin
Alexandra Rojek	III	University of California
Giancarlo Saldana	III	University of Illinois
Patrick Schiller	III	University of Chicago
Chelsea Smith	III	University of Michigan
Misha Tran	III	Case Western Reserve University
Albina Tyker	III	Saint Louis University
Benjamin Vazquez	III	University of Illinois
Joseph Westrich	III	Loyola University
Meng Wu	III	University of Chicago

Second Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Annie Carlton	II	University of Virginia
Michael Clarke	II	University of Illinois Chicago
Matthew Cochran	II	University of Texas San Antonio
Nirmal Desai	II	University of Illinois Chicago
Dylan Douglas	II	Loyola
Ellis Green	II	University of Cincinnati
Nikhil Gupta	II	Case Western Reserve University
Thomas Hunold	II	University of Virginia
Sharon Jiang	II	Case Western Reserve University
Chris Kaperak	II	University of Virginia
Nick Kowalczyk	II	University of Arkansas
Ashley La	II	University of Maryland
Olivia Lanser	II	University of Illinois, Chicago
Molly Leavitt	II	University of Cincinnati
Michael Lourie	II	University of Michigan
Fawsia Osman	II	University of Arizona
Kevin Pearlman	II	Boston University
Alex Plana	II	University of Chicago
Maria Poonawalla	II	Loyola University
Seth Scheetz	II	Ohio State University
Juliana da Silva	II	Loyola University
Justin Sipiora	II	Rutgers New Jersey Medical School
Ankur Srivastava	II	Albert Einstein College of Medicine
Sharjeel Syed	II	Stanford
Samuel Trump	II	Vanderbilt
Sam Yates	II	Wake Forest University
Arslan Zahid	II	Emory University
Drew Zasada	II	Ohio State University
Jack Zhao	II	Yale University

First Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Tess Allan	I	University of Chicago
Ahmad Allaw	I	University of Chicago
Chukwunedum Aniemeka	I	Tulane University
Nadeem Bandealy	I	University of Wisconsin
Erika Belmont	I	Rosalind Franklin University of Medicine & Science Chicago Medical School
Carlton Christian	I	University of Chicago
Nia Feaster	I	Howard University
Nicole Gras	I	Baylor University
Hannah Johnston	I	Wake Forest University
Layne Keating	I	Quinnipiac University
Jannel Liu	I	University of Illinois
Rachel Lombard	I	University of Illinois
Michael Mayer	I	University of Pennsylvania
Geetika Mehra	I	Harvard University
Bruk Mekonen	I	Howard University
Elena Michaels	I	Tufts University
Muhammad Mire	I	George Washington University
Joyce Lucidivine	I	Loyola University
Ngouchet Nouhoss	I	
Meaghan O'Hara	I	Loyola University

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Amanda Ojugbeli	I	University of Cincinnati
Stephan Olaya	I	University of Maryland
Srinivas Panchamukhi	I	University of Illinois
Hannah Pursley	I	University of Chicago
Christopher Rodman	I	Wake Forest University
Rukmini Roy	I	Southern Illinois University
Navika Shukla	I	Stanford
Mikail Siddiki	I	University of Cincinnati
Alexander Small	I	Florida Atlantic University
Varun Subashchandran	I	New York University
Hans Vitzthum von Eckstaedt	I	University of Virginia

Preliminary

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Clarence Dukes	I	Indiana University
Colton Funkhouser	I	Georgetown University
Zachary Osborn	I	Indiana University
Daniella Schochet	I	California Northstate University
Rebecca Tanenbaum	I	University of Miami
Peter Weber	I	Virginia Tech

Physician Scientist Development Program

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Kerim Kaylan	I	University of Illinois
Margarite Matossian	I	Tulane University
Daniel Peiffer	I	Loyola
Frank Wen	I	University of Chicago
Vivek Behera	II	University of Pennsylvania
Rob Cameron	II	Medical University of South Carolina
Joe Cannova	II	Loyola
Wenji Guo	II	Johns Hopkins University
Sabrina Imam	II	Loyola
Anna Czapar	III	Case Western Reserve University

Dermatology Residents

Third Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Margaret Boyle	IV	Saint Louis University
Margaret Bruns (nee Dennin)	IV	University of Chicago
Erin Dodd	IV	University of Minnesota
Erin Ibler	IV	Saint Louis University

Second Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Scott Blaszak	III	Medical College of Wisconsin
Jake Lazaroff	III	Northwestern University
Maria Estela Martinez-Escala	III	Universitat de Barcelona Facultat de Medicina

First Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Brooke Cui	II	Thomas Jefferson University

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Ekene Ezenwa	II	University of Oklahoma-Tulsa
Umar Sheikh	II	Saint Louis University

Emergency Medicine Residents

Third Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Robert Alleyne	III	Emory University
Kate Anderson	III	University of Vermont
Ravi Chacko	III	Washington University
Abigail Clarkson-During	III	University of Rochester
Ryan DesCamp	III	Indiana University
Arian Frost	III	University of Wisconsin
Mohamed Hamouda	III	Northwestern University
Kristin Lewis	III	University of California, San Francisco
Glenn McFadden	III	University of Chicago
Allyson Peterson	III	University of Washington
Danny Semaan	III	University of Michigan
Curren Smith	III	University of Chicago
Miya Smith	III	Meharry Medical College
Tunlewa Soyinka	III	Duke University
Jamie Staudt	III	University of Chicago
Emily Wilkins	III	University of Connecticut

Second Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Doreen Agboh	II	Rutgers New Jersey Medical School
Derek Altema	II	Howard University
Morgan Battaglia	II	University of Arizona
Benjamin Bowman	II	University of Chicago
Sandra Coker	II	University of Texas
Erica Concors	II	Rutgers New Jersey Medical School
Devon Fiorino	II	University of Virginia
Timothy Firman	II	University of California, San Diego
Bernice Fokum	II	Emory University
Kirlos Haroun	II	University of Washington
Marika Kachman	II	University of Chicago
Michael McGary	II	Brown University
Taylor Petrushevski	II	Loyola University
Heather Renfro	II	University of Texas Southwestern
Erron Rourke	II	Michigan State University
Anjali Sarver	II	University of Miami

First Year Residents

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Atilio Atencio	I	Temple University
Nicole Blum	I	University of Illinois
Emmanuel Cordova	I	University of California, Los Angeles
Sarah Follman	I	University of Chicago
Larissa Fomum Mugri	I	Michigan State University
Joshua Harkless	I	Saint Louis University
Catherine Havemann	I	Vanderbilt
Cecelia Johnson-Sasso	I	University of Colorado

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED
Sally Madiba	I	University of California, Davis
Annie Murphey	I	University of Michigan
Coralie Pardo	I	Rush Medical College
Colin Reinhart	I	Eastern Virginia
Patrick Sammons	I	University of Southern California
Sean Thompson	I	University of California, Irvine
Kaley Waring	I	University of California, San Diego
Trenika Williams	I	Dartmouth

FELLOWS: Cardiology Cardiovascular Diseases

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Jonathan Lattell	V	Loyola University	University of Chicago
Shirlene Oubuobi	IV	University of Chicago	University of Chicago
Joseph Weber	IV	Loyola University	University of Chicago
Martin Gruca	IV	University of Michigan	Northwestern University
Jiho Han	IV	Columbia University	Stanford
Maxine Tang	V	University of California	University of California, Los Angeles
Abdulrahman Abutaleb	V	Northwestern University	Northwestern University
Nikhil Singh	VI	University of Buffalo	University of Southern California
Linda Lee	VI	Rush Medical College	University of Chicago
Eisha Wali	V	Case Western Reserve University	University of Chicago
Rishi Pandya	V	University of Chicago	New York University
Ian Hackett	VI	Saint Louis University	University of Utah
Anthony Kanelidis	IV	University of Chicago	University of Chicago
Steven Mazzone	IV	University of Chicago	University of Chicago
Jeremy Treger	III	University of Chicago	University of Chicago
Patrick Miller	IV	University of Kansas	MedStar Georgetown University
Nicole Prabhu	V	University of Oklahoma	Rush University
Ryan Sanderson	IV	Ohio State University	University of Michigan

Cardiac Imaging

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Michael Henry	VII	Loyola University	University of Michigan
Jeremy Slivnick	VII	University of Illinois	University of Michigan

Interventional Cardiology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Abdulrahman Dia	VIII	University of Illinois	University of Chicago
Ali Alsaad	VII	Al Kadhimiya Teaching Hospital Baghdad, Iraq	Mayo Clinic

Clinical Cardiac Electrophysiology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Swati Rao	VII	University of Utah	Thomas Jefferson University
Aalap Narichania	VIII	University of Wisconsin	Mayo Clinic Scottsdale, AZ
Jonathan Burris	VII	University of California	University of California

Advanced Heart Failure

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Mark Belkin	VII	Rush Medical College	University of Chicago
Mark Dela Cruz	VII	University of California, San Francisco	University of California, San Francisco

Dermatopathology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Kristopher Peters	V	Nova Southeastern University (DO)	Naval Medical Center San Diego (Dermatology)

Emergency Medicine

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Michael McCartin		University of Chicago	University of Chicago

Endocrinology, Diabetes and Metabolism

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Matthew Ettleson	VII	Northwestern University	University of Michigan
Marilyn Arosemena	V	Universidad Catolica de Santiago	University of Miami
Iliana Doycheva	VII	Medical University of Sofia	University of Florida
Sandra Naaman	V	University of Ottawa	NorthShore
Amina Basha	IV	University of Illinois	University of Illinois, Chicago

Pediatrics

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Tara Rajiyah	VIII	Royal College of Surgeons, Ireland	Newark Beth Israel Medical Center, New Jersey
Sarah Fadel Shaaban	V	Indiana University	Rush University
Batoul Hammoud	V	American University of Beirut	UPMC Children's Hospital of Pittsburgh
Naiomi Gunaratne	IV	University of Miami	University of Chicago

Gastroenterology, Hepatology and Nutrition

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Alan Hutchison	III	University of Chicago	University of Chicago
Grace Kim	IV	Ohio State University	University of Maryland
Hannah Roth	V	University of Chicago	University of Chicago
Ariel Bowen Sims	IV	University of Toledo College of Medicine	Cleveland Clinic
Scott Friedberg	V	Technion Israel Institute of Technology	University of Pittsburgh
Raghavendra Paknikar	V	University of Michigan	University of Chicago
Wenfei Wang	V	University of Toledo	University of Chicago
Nathaniel Cohen	VIII	University of the Witwatersrand	
Tenzin Choden	VII	Eastern Virginia	Medstar Georgetown University
Anuhya Gampa	VII	Rush Medical College	Rush University
Najib Nassani	VII	Saint Joseph University	Northwell Health
David Hakimian	VII	Hebrew University	Hadassah Mount Scopus
Fares Ayoub	VI	University of Jordan	University of Florida
Thomas Couri	VII	University of Chicago	University of Chicago

NAME	PGY LEVEL	MEDICAL SCHOOL ATTENDED	RESIDENCY
Ariel Halper-Stromberg	V	Weill Cornell	University of Chicago
Benjamin McDonald	V	University of Chicago	University of Chicago
Matthew Odenwald	V	University of Chicago	University of Chicago

Geriatrics and Palliative Medicine

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Wendy Chen (Geriatrics)	V	Oceania University	Mercy Hospital
Sheraz Hussain (Geriatrics)	IV	Aga Khan University	University of Illinois Chicago/ Advocate Christ
Vasyl Hereha (Palliative)	IV	State University of New York Upstate Medical University	Amita St. Mary and Elizabeth Medical Center
Marla Rejbi (Palliative)	IV	Edward Via College of Osteopathic Medicine	Swedish Covenant Hospital
Samantha Sawicki (Geriatrics & Palliative)	III	University of Chicago	University of Chicago

Hematology/Oncology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Jennifer Cooperrider	V	Ohio State University	University of Chicago
Frederick Howard	VII	University of Michigan	Yale University
Kunal Desai	IV	University of Illinois	Cleveland Clinic
Jacobi Hines	IV	University of Virginia	University of Chicago
Nabiel Mir	V	University of Queensland	University of Alabama
Athalia Pyzer	V	University of Birmingham	University of Chicago
Gregory Roloff	IV	University of Buffalo	Loyola University
Austin Wesevich	V	Washington University	Duke University
Michael Breen	VI	Northwestern University	Yale University
Priyanka Chablani	VI	Ohio State University	New York University
Michael Hawking	VI	University of Michigan	University of Chicago
Joseph Heng	VI	Yale University	John Hopkins University
Ajay Major	VI	Albany Medical	University of Colorado
Jovian Yu	VI	Warren Alpert Medical School	Yale University
Kirk Cahill	VI	University of Chicago	University of Chicago
James Dolezal	IV	University of Pittsburgh	University of Chicago
Vivesh Kothary	V	Vanderbilt	University of Pittsburgh
Koosha Paydary	V	Tehran University	John H. Stroger Jr. Hospital
Caner Saygin	V	Istanbul University	Ohio State University
Jori Sheade	VI	Rush Medical College	University of Chicago
Dario Villamar	V	Weill Cornell Medicine	New York Presbyterian Hospital

Hospital Medicine/Hospitalist Scholars

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Sanjana Kareti		SDM Medical College	Stroger Hospital
Ashley Brown		University of Central Florida	Washington University
David Pavkovich		Northwestern University	Wayne State University

Infectious Diseases & Global Health

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Christopher Lehmann	VII	Indiana University	Indiana University
Erica MacKenzie	VIII	University of Chicago	University of Chicago
Michael Czapka	V	Albert Einstein College of Medicine	Rush University
John Flores	V	University of Texas, San Antonio	University of Illinois, Chicago
Elizabeth Bell	IV	Creighton University	Rush University

Nephrology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Anand Narayanan	V	Caribbean Medical University	Mercy Hospital
Mohammed Nasaruddin	V	St. George's University	Rosalind Franklin University
Sri Mahathi Kalipatnapu	V	Andhra Medical College	Loyola Macneal Hospital
Juhi Bhargava	V	Seth G.S. Medical College	Washington Hospital Center
Mina Al Sayyab	IV	Caribbean Medical University	Loyola University/ Trinity Mercy-Chicago
Tushar Bajaj	IV	American University of the Caribbean School of Medicine	University of California, Los Angeles
Nupur Mistry	IV	St. Louis University	University of Chicago
Ryan Weiss	IV	St. George's University	Lake Cumberland Regional Hospital

Pulmonary/Critical Care

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Julie Neborak	VII	University of Minnesota	University of Chicago
Steven Pearson	VII	University of Illinois Chicago	University of Chicago
Danielle Stahlbaum	VII	Case Western Reserve University	University of Chicago
Matthew Stutz	VIII	University of Chicago	University of California, Los Angeles
Sarah Gray	VI	University of Michigan	University of Chicago
Obada Shamaa	VI	Ohio State University	University of Chicago
Rachel Strykowski	VI	University of Minnesota	Boston University
Nathan Nowalk	V	Florida State University	Baylor University
Kyle Potts	V	McGovern Medical School, University of Texas	University of Colorado
Kevitha Selvan	V	Texas Tech University	Harvard University
Jennifer Szafran	V	University of Chicago	University of Chicago
Gaurav Ajmani	IV	University of Chicago	University of Chicago
Kevin Buell	IV	Imperial College	Vanderbilt University
Mario Fonseca-Paricio	IV	Thomas Jefferson University	Thomas Jefferson University
Mark Tancredi	IV	Loyola University	Loyola University

Sleep Medicine

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Patricia Jimenez Guzman	IV	Universidad Dr Jose Matias Delgado, El Salvador	University of Illinois, Chicago
Aristotle Leonhard	IV	Medical College of Wisconsin	University of Chicago
Kamonchanok (May)	V	Ramathibodi Hospital Faculty, Thailand of Medicine	University of Pittsburgh
Jongyotha			Jongyotha

Interventional Pulmonology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Grady Hedstrom	VI	Tufts University	Rush University

Rheumatology

FELLOWS	PGY LEVEL	MEDICAL SCHOOL	RESIDENCY
Emily Peninger	V	Medical College of Georgia	University of Illinois, Chicago
Didem Saygin	V	Istanbul University	University of Pittsburgh
Ana Belen Arevalo Molina	V	Universidad del Azuay Facultad de Medicina Ecuador	ICahn School of Medicine at Mount Sinai/ Morningside – West
John Byun	IV	Medical College of Wisconsin	Rush University

RESIDENT AND FELLOW PROGRAM GRADUATES FY21

Internal Medicine

NAME	POSITION	INSTITUTION
Jonathan Dowd	Gastroenterology Fellow	Cook County Hospital
Joseph Goldenberg	Cardiology Fellow	Johns Hopkins University
Dariusz Hareza	Infectious Disease Fellow	Johns Hopkins University
Ragha Suresh	Allergy and Immunology Fellow	Johns Hopkins University
Maryam Zafer	Hospitalist	Kentfield Hospital in San Francisco
Ashley Smith-Nunez	Chief Resident	MacNeal Hospital
Stephanie Kelly	Other	Relocated to Scotland
Anup Das	Hospitalist	Northwestern University
Nolan Faust	Gastroenterology Fellow	Northwestern University
So Lim Kim	Allergy and Immunology Fellow	Northwestern University
Joshua Waytz	Rheumatology Fellow	Northwestern University
Tamari Miller	Cardiology Fellow	New York Presbyterian - Columbia
Edna Chukwurah	Private practice	Private practice
Ellen Daily	Allergy and Immunology Fellow	Rush University
Julia Nath	Addiction Medicine Fellow	Rutgers University
Satish Mishra	Cardiology Fellow	University of Illinois at Chicago
Kevin Prescott	Hematology/Oncology Fellow	University of Illinois at Chicago
Gaurav Ajmani	Pulmonary/Critical Care Fellow	University of Chicago
Jennifer Cooperrider	Hematology/Oncology Fellow	University of Chicago
Jacobi Hines	Hematology/Oncology Fellow	University of Chicago
Alan Hutchison	Gastroenterology Fellow	University of Chicago
Inae Jang	Ophthalmology resident	University of Chicago
Jonathan Lattell	Cardiology Fellow	University of Chicago
Aristotle Leonhard	Sleep Fellow	University of Chicago
Nupur Mistry	Nephrology Fellow	University of Chicago
Shirlene Obuobi	Cardiology Fellow	University of Chicago
Athalia Pyzer	Hematology/Oncology Fellow	University of Chicago
Hannah Roth	Gastroenterology Fellow	University of Chicago
Samantha Sawicki	Geriatric Palliative Medicine Fellow	University of Chicago
Umar Sheikh	Dermatology Residency	University of Chicago

NAME	POSITION	INSTITUTION
Joseph Weber	Cardiology Fellow	University of Chicago
Michael Zhang	Radiology resident	University of Chicago
Marie Dreyer	Chief Resident	University of Chicago
Michael Jacobs	Chief Resident	University of Chicago
Ross McMillan	Chief Resident	University of Chicago
Kathleen Wiest	Chief Resident	University of Chicago
Dennis Jingzhou Wang	Gastroenterology Fellow	University of Colorado
Rasadat Adeduntan	Hospitalist	University of Pennsylvania
Corey Rearick	Cardiology Fellow	University of Pittsburgh
Spencer Carter	Cardiology Fellow	UT Southwestern
Patrick Naureckas	Pulmonary/Critical Care Fellow	University of Wisconsin
Joseph Thomas	Hematology/Oncology Fellow	Weill Cornell
Lauren Young	Unknown	

Cardiology

NAME	POSITION	INSTITUTION
Rajeev Anchan	Interventional cardiologist	Bryan Heart, Lincoln, Nebraska
Ryan Burkhart	Interventional Cardiologist	Brooke Army Medical Center, Fort Sam Houston, TX
Haider Nazeer	Attending Physician	NYU Long Island Hospital
Indra Bole	Advanced Heart Failure and Transplant Cardiologist	Ohio State University
Andrew Chen	Private practice	Southern California
Vishnu Pulpati	Endocrinologist and Lipidologist	Warren Clinic Endocrinology, Tulsa, Oklahoma
Ilya Karagodin	General/Imaging Cardiologist	Northshore University Health System
Nazia Alvi	Cardiac Imaging	AMITA Health Group
Hena Patel	Cardiologist	University of Chicago
Hena Patel	Assistant Professor of Medicine	University of Chicago

Dermatology

NAME	POSITION	INSTITUTION
Julia Dai	Assistant Professor of Dermatology	MD Anderson, Texas
Arjun Dayal	Private Practice	Multi-Partner Private Practice (Illinois)
Esther Kim	Assistant Professor of Dermatology	Columbia University

Dermatopathology Fellow

NAME	POSITION	INSTITUTION
Shaymaa Ashi	Academic/Clinical	St. Luke's University Health Network (PA)

Emergency Medicine

NAME	POSITION	INSTITUTION
Dany Accilien	Administrative Fellow	WellStar Cobb Hospital
Yom Alemante	Community Attending	Bon Secours Richmond Community Hospital
John Benjamin Jess Arevalo	Palliative Care Fellowship	University of California San Francisco
Danielle De Freitas	Sports Medicine Fellow	Northwell Health
Casey Distaso	Clinical Informatics Fellow	Vanderbilt University
Jasmine Ginn	Simulation Fellowship	Rush University

NAME	POSITION	INSTITUTION
Deirdre Goode	Academic Attending	Beth Israel Deaconess Medical Center
Dexter Graves	Community Attending	Piedmont Rockdale and Piedmont Newtown Hospitals
Samantha Hay	Health Policy Research and Translation Fellow	Brigham and Women's Hospital
Michael Hernandez	Critical Care Fellowship	University of Washington
Michael McMartin	EMS Fellow	University of Chicago
Jonathan Oskvarek	Innovations Fellow	Lake Health West Medical Center
Daven Patel	Ultrasound Fellow	Rush University
Arthur Pope	Academic Attending	University of Pennsylvania
Regina Royan	Fellow	Northwestern University
Semhar Tesfai	Simulation Fellow	Cook County Hospital

Endocrinology, Diabetes and Metabolism

NAME	POSITION	INSTITUTION
Monika Darji, MD	Clinician Educator	NorthShore University Health System
Olha Duchon, MD	Health System Clinician	Northwestern Medical Group

Pediatric Endocrinology, Diabetes & Metabolism

NAME	POSITION	INSTITUTION
Maria Salguero Bermonth	Clinical Pharmacology & Pharmacogenetic Fellow	University of Chicago

Emergency Medicine

NAME	POSITION	INSTITUTION
Lindsay Jaeger	Assistant Professor of Pediatrics	University of Chicago

Gastroenterology, Hepatology and Nutrition

NAME	POSITION	INSTITUTION
Hassaan Zia	Assistant Professor of Medicine	Louisiana State University
Charlie Muller	Instructor of Medicine	Northwestern University
Thomas Cotter	Assistant Professor in Transplant/Hepatology	UT Southwestern
Kayin Jeffers	Associate Physician	United Digestive
Noa Cleveland	Coggeshall Instructor	University of Chicago
Ye Eun Kwak	Private Practice	Amrita Health Alexian Brothers
Parita Patel	Transplant/Hepatology Fellow	Northwestern University
Jennifer Wang	Advanced Hepatology Fellow	Massachusetts General Hospital
Shntaro Akiyama	Lecturer, Department of Gastroenterology	University of Tsukuba, Japan
Joshua Steinberg	Director of IBD	Gastroenterology of the Rockies, Denver, CO

Geriatrics and Palliative Medicine

NAME	POSITION	INSTITUTION
Kimberly Beiting	Assistant Professor of Medicine	Vanderbilt
Leena Danawala	Rheumatology Fellow	Ohio State University
Nabiel Mir	Hematology/Oncology Fellow	University of Chicago
Ryan Etchison	Palliative Care Physician	Advocate Christ Medical Center
Navneet Kaur	Palliative Care Physician	City of Hope
Joshua Russell	Palliative Care Physician	NorthShore University Health System

Hematology/Oncology

NAME	POSITION	INSTITUTION
Amy Wang	Hematologist/Oncologist	NorthShore University Health System
Anand Patel	Assistant Professor of Medicine	University of Chicago
Natalie Reizine	Assistant Professor of Medicine	University of Illinois, Chicago
Carolina Soto Chervin	Hematologist/Oncologist	NorthShore University Health System
Meghan Steiner	Medical Oncologist	Atrium Health
Garth Strohhenn	Assistant Professor of Medicine	VA Center for Clinical Management and Research
Sherin Rouhani	Advance Research Fellow	University of Chicago

Hospital Medicine/Hospitalist Scholars

NAME	POSITION	INSTITUTION
Brian Labadie	Hematology/Oncology Fellow	Columbia University
Vivian Lee	Gastroenterology Fellow	University of North Carolina
Maylyn Martinez	Pathway Instructor	University of Chicago

Infectious Diseases and Global Health

NAME	POSITION	INSTITUTION
Maggie Collison	Clinical Instructor	Northshore Medical Group
Gregory Olson	Attending Physician	Southwest Infectious Diseases Group
Christopher Frohne	Associate Physician	Vancouver Clinic, Portland, OR

Nephrology

NAME	POSITION	INSTITUTION
Felipe Fernandez del Castillo	Nephrologist	Private practice
Anju Mohan	Nephrologist	DuPage Medical Group
Abhishek Pulla	Nephrologist	NANI
Elzbieta Stob	Nephrologist	Private practice

Pulmonary/Critical Care

NAME	POSITION	INSTITUTION
Cathryn Lee	Coggeshall Instructor	University of Chicago
William Dwight Miller	Assistant Professor of Medicine	University of South Florida
Xuan (Susan) Han	Assistant Professor of Medicine	Tufts University

Sleep Medicine

NAME	POSITION	INSTITUTION
David DeLapp	Private practice	Northwestern Central DuPage
Nimra Alvi	Assistant Professor of Medicine	University of Iowa
Emmeline Magno	Attending Physician	Indiana Internal Medicine Consultants

Interventional Pulmonology

NAME	POSITION	INSTITUTION
Elliot Ho	Private practice	Loma Linda University

Rheumatology

NAME	POSITION	INSTITUTION
Marco Lopez-Velazquez	Staff Rheumatologist	Valley Oaks Medical Group
Laarni Quimson	Attending Physician	Advocate Christ Medical Center

Committee Highlights

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.

The DOM Women's Committee enjoyed several successes in FY21:

- Published two issues of the "Women at the Forefront" newsletter, highlighting the accomplishments of women faculty/trainees and added a #HeForShe and book recommendation section.
- Conducted a workshop on "Mentorship in Medicine," featuring Abby Spencer, MD MS FACP, Vice Chair of Education, Professor of Medicine, and Director of the Academy of Educators at Washington University School of Medicine
- Conducted a workshop on "Gender Equity in Medicine: Working from the Ground Up" featuring Jennifer Lukela, MD, Associate Director of the Internal Medicine Residency Program at the University of Michigan
- Received honorable mention for the NIH Prize for Enhancing Faculty Gender Diversity in Biomedical and Behavioral Science
- Published on the Committee's work nominating and increasing the percentage of women receiving local awards entitled "#SheForShe: Increasing Nominations Significantly Increased Institutional Awards for Deserving Academic Women", Press VG, Huisingh-Scheetz M, Oyler J.J *Gen Intern Med.*, 2021
- Hosted Ngozi O. Ezike, MD, Director, Illinois Department of Public Health, as the Women's Committee's Grand Round Speaker for 2021, who spoke on "Hurricane COVID and Lessons (Re)Learned"

Diversity, Equity and Inclusion Committee

The mission of the Department of Medicine Diversity Equity and Inclusion (DEI) Committee is to promote compositional diversity through the recruitment, retention, mentorship and promotion of students, house staff, and faculty traditionally underrepresented in medicine, to foster an inclusive climate free of harmful bias and to assist in the delivery of equitable health care practices for patients and communities. With leadership from Monica Vela, MD, accomplishments in FY21 included enhanced education and awareness of DEI issues via presentations at various grand rounds and lectures, and through the creation of three new sub-committees focused on safe space, inclusive pedagogy and abilities and disabilities; increased relationship building and belonging; addressed race-based and culturally sensitive healthcare delivery and contributed heavily to scholarship on DEI. Also noteworthy were enhanced recruitment and outcome efforts for



trainees. In FY21, the Department recruited a diverse housestaff to its residency programs. Twenty-five percent of the interns in the internal medicine residency program, 44% of the interns in the emergency medicine residency program and 18% of sub-specialty fellows identify as underrepresented in medicine (UIM). The Committee partnered with other institutional leaders to advocate for blinding USMLE scores in screening and matching candidates to residency programs and for the continued support of UIM trainees at all programs

In FY21 activities, the DEI Committee had a commanding presence at the virtual annual medical education conference of the Student National Medical Association, the national Latino Medical Student Association conference and the Medical Organization for Latino Advancement. The June 2021 Juneteenth demonstration was led by Drs. Abdullah Pratt, and Edwin McDonald, Mr. James Williams (Executive Director of Diversity, Inclusion and Equity in the Urban Health Initiative) and Symphony Fletcher (PSOM Student). The DEI hosted Monica Lypson MD, a national leader in medical education and Vice Dean for Education at Columbia University, as the 2021 DEI Grand Rounds speaker who spoke on "Anti-Racism is a Must in Academic Medicine".

The DEI Committee published several high impact publications during the past academic year:

- Solola J, McQueen A, Naylor R, Okuneye V, Vela MB. Perspective: Why We Can't Wait. *J Grad Med Educ.*, 2021 13 (1): 37-38)
- Vela MB, Chin MH, Peek ME. Keeping Our Promise to Underrepresented in Medicine Trainees. *N Engl J Med.*, 2021; 385:487-489
- Valley TS, Armstrong-Hough M, Adegunsoye A. Risk, Race, and Structural Racism. *Ann Am Thorac Soc.*, 2021 Aug;18(8):1289-1290.
- Obuobi S, Vela MB, Callender B. Comics as anti-racist education and advocacy. *Lancet.* 2021 May 1;397(10285):1615-1617.
- Peek ME, Vela MB, Chin MH. Practical Lessons for Teaching About Race and Racism: Successfully Leading Free, Frank, and Fearless Discussions. *Acad Med.*, 2020 Dec;95.
- Ahn D, Garg N, Fan J, Srinath A, Naik A, Wei H, Song B, Zhang J, Chung K, Vela MB, Kim KE. Where Do I Fit In? An Exploration of Challenges Faced by Asian American Medical Students March. *Health Equity*, 2021
- Woodruff JN, Vela MB, Zayyad Z, Johnson TA, Kyalwazi B, Amegashie C, Silverman R, Levinson D, Blythe K, Lee WW, Thomas S, Parrish W, Humphrey HJ. Supporting Inclusive Learning Environments and Professional Development in Medical Education Through an Identity and Inclusion Initiative. *Acad Med.*, 2020 Dec;95

Please visit medicine.uchicago.edu for a full version of the 2021 Department of Medicine Annual Report including select faculty publications and FY21 Sponsored Research Awards.

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