I am pleased to present to you the 2022 Department of Medicine Annual Report entitled “Innovation, Impact and Inclusion.” This past academic year the Department of Medicine (DOM) continued to achieve remarkable success in every aspect of our tripartite mission as well as increased cultural awareness and enhanced diversity, equity and inclusion (DEI) efforts with the appointments of three exceptional leaders to advance this work. Medicine investigators successfully competed for $186M in total cost research funding and continued to translate basic research into clinical practice with multiple innovative discoveries, publishing over 2,000 impactful papers with dozens in high profile journals, and conducting nearly 1,700 clinical research studies. Medicine clinicians continued to provide excellent care to COVID patients in the emergency room, on the inpatient services, in the ICU’s and in the clinic during the third year of the pandemic. Our expertise in these realms was acknowledged nationally with USNWR recognition for our clinical programs in gastroenterology, cancer, diabetes/endocrinology, pulmonary medicine, cardiology and geriatric medicine, and NIH top 25 recognition in research funding. Medicine educators continued to impact the lives of our 350+ trainees to successfully prepare them for careers in academic medicine. Other notable departmental highlights from this past year include:

- Appointment of Mark Anderson, MD as Executive Vice President for Medical Affairs, Dean of the Division of the Biological Sciences; and Dean of the Pritzker School of Medicine effective October 1, 2022
- Appointments of 9 new administrative leaders within the DOM: Doriano Miller, MD as Vice Chair for DEI; Monica Peak, MD as Associate Vice Chair for Research Faculty Development; Keme Carter, MD, Associate Vice Chair for DEI Education; Jennifer Piasas, MD as Chief of the Section of Infectious Diseases and Global Health; Thomas Spiegel, MD as Interim Chief for the Section of Emergency Medicine; Marius Chivu, MD as Associate Chief for the Section of Hospital Medicine; Sonia Kapfer, MD as the Director of the Physician Scientist Development Program; James Manthey as Executive Administrator, and Mark Mitchell as Associate Executive Administrator
- Four institutional leadership appointments: Christine Babcock, MD as Associate Dean for Graduate Medical Education; PSOM, Luis Baramro, PhD as Chair of the Committee on Genetics, Genomics and Systems Biology; Bana Jabri, MD, PhD as Chair of the Committee on Immunology; Euna Tassali, MD as Director of UC Medical; Everett E. Vokes, MD as Vice Chair for DEI; John E. Ultmann Professor; Chair, Department of Medicine Physician-in-Chief, University of Chicago Medicine & Biological Sciences
- Four named professorships/distinguished service professorships: Marshall Chin, MD named as the Richard Parks Family Distinguished Service Professor; Bana Jabri, MD, PhD named as the Sara and Harold Lincoln Thompson Distinguished Service Professor; Karen Kim, MD named as the Sara and Harold Lincoln Thompson Professor and Monica Peak, MD named as the Helen B. Block Professor for Health Justice
- National and state recognition for the outstanding work of our faculty. For example, Sunnul Darpade, MD was inducted to the National Academy of Sciences; Marisa Alegre, MD, PhD and Yvonne Gral, PhD were elected to the American Association for the Advancement of Sciences; Mark Siegler, MD named as the inaugural recipient of the SGIM Excellence in Medical Ethics Award; Shellie Williams, MD was the inaugural recipient of the Richard Payne Leadership Award from the Hastings Center and Cunniff-Dixon Foundation
- Highly successful residency and fellowship match
- Cultivation of a new generation of translational scientists via our Coggeshall Fellow and Pathway to Independence instructor appointments
- Appointment of Michael Leventhal, MD as the inaugural recipient of the SGIM Excellence in Medical Ethics Award; Shellie Williams, MD was the inaugural recipient of the Richard Payne Leadership Award from the Hastings Center and Cunniff-Dixon Foundation
- The successful recruitment of a new generation of translational scientists via our Coggeshall Fellow and Pathway to Independence instructor appointments
- I am proud to lead a Department that is comprised of clinicians, scientists and educators that are dedicated and determined to advance our tripartite missions. I commend all of our faculty, trainees, and staff for their outstanding contributions to our success over the past academic year.
**Organization**

<table>
<thead>
<tr>
<th>Executive Committee</th>
<th>Vice Chair of Appointments &amp; Promotions</th>
<th>Steven White, MD</th>
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<tbody>
<tr>
<td></td>
<td>Vice Chair of Clinical Operations</td>
<td>Matthew Sorensten, MD</td>
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<td></td>
<td>Vice Chair of Diversity, Equity &amp; Inclusion</td>
<td>Dorian Miller, MD</td>
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<td></td>
<td>Vice Chair of Education</td>
<td>John McGonagle, MD</td>
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<td></td>
<td>Vice Chair of Faculty Development</td>
<td>Deborah Burnet, MD</td>
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<td></td>
<td>Vice Chair of Research</td>
<td>Yoav Gidil, PhD</td>
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<td></td>
<td>Vice Chair of Research</td>
<td>Bana Jabiri, PhD, MD</td>
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<tr>
<td></td>
<td>Associate Vice Chair-Ambulatory Operations</td>
<td>Raghuram Mirvira, MD, PhD</td>
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<tr>
<td></td>
<td>Associate Vice Chair-Appointments &amp; Promotions</td>
<td>Lisa Vinci, MD</td>
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<td></td>
<td>Associate Vice Chair-Clinical Research</td>
<td>Dorothy Hanck, PhD</td>
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<td></td>
<td>Associate Vice Chair-Diversity, Equity &amp; Inclusion</td>
<td>Hedy Kindler, MD</td>
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<td>Associate Vice Chair-Quality</td>
<td>Kenie Carter, MD</td>
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<td>Associate Vice Chair-Research Faculty Development</td>
<td>Andrew Davis, MD</td>
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<td></td>
<td>Associate Vice Chair-Translational Research</td>
<td>Monica Peak, MD</td>
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<td>Executive Administrator</td>
<td>Jing Chen, PhD</td>
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<td></td>
<td>Associate Executive Administrator</td>
<td>James Manthey, MBA</td>
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<td>Mark Mitchell, MBA</td>
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<td><strong>Section Chief Council</strong></td>
<td>Biomedical Data Science</td>
<td>Robert Grossman, PhD</td>
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<td></td>
<td>Cardiology</td>
<td>James Liao, MD</td>
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<td></td>
<td>Dermatology</td>
<td>Diana Boottin, MD, PhD</td>
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<td></td>
<td>Emergency Medicine</td>
<td>Thomas Spiegel, MD (interim)</td>
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<td></td>
<td>Endocrinology, Diabetes &amp; Metabolism</td>
<td>Ronald Cohen, MD</td>
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<td></td>
<td>Gastroenterology, Hepatology &amp; Nutrition</td>
<td>David Rubin, MD</td>
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<td></td>
<td>General Internal Medicine</td>
<td>Deborah Burnet, MD</td>
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<td></td>
<td>Genetic Medicine</td>
<td>Yoav Gidil, PhD</td>
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<td></td>
<td>Geriatrics &amp; Palliative Medicine</td>
<td>Stacie Levine, MD</td>
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<td></td>
<td>Hematology/Oncology</td>
<td>Sonali Smith, MD</td>
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<td></td>
<td>Hospital Medicine</td>
<td>David Matzzer, MD, PhD</td>
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<td>Infectious Diseases &amp; Global Health</td>
<td>Jennifer Pizano, MD</td>
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<td></td>
<td>Nephrology</td>
<td>Arlene Chapman, MD</td>
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<td>Pulmonary/Critical Care</td>
<td>Geetha Mudu, MD</td>
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<td>Rheumatology</td>
<td>Marcus Clark, MD</td>
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<td><strong>Committee Chairs</strong></td>
<td>Diversity Committee</td>
<td>Dorlane Miller, MD</td>
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<td></td>
<td>Women's Committee</td>
<td>Julie Dyler, MD</td>
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<tr>
<td><strong>Chief Residents</strong></td>
<td>2022 Chief Residents</td>
<td>Marie Dreyer, MD</td>
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<td></td>
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<td>Michael Jacobis, MD</td>
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<td>Ross McMillan, MD</td>
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<td>Kathleen West, MD</td>
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<td>2023 Chief Residents</td>
<td>Mary Acosta, MD</td>
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<td></td>
<td></td>
<td>Ashish Gandhi, MD</td>
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<td></td>
<td>Lauren He, MD</td>
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<td></td>
<td>Nathan Kong, MD</td>
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<td><strong>Senior Management</strong></td>
<td>Budget and Finance</td>
<td>Sunila Goel</td>
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<td>Clinical Revenue and Billing</td>
<td>Shefali Patel</td>
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<td>Clinical Research Support</td>
<td>Allison Buonamici</td>
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<td>Clinical Trials Financial Group</td>
<td>Matthew Levine</td>
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<td>Human Resources (Academic)</td>
<td>Sharon Frazier</td>
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<td>Human Resources (Staff)</td>
<td>Chris Vazquez</td>
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<td>Information Systems</td>
<td>Max Marchevsky</td>
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<td>Research Administration</td>
<td>Katie Fizer</td>
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<td></td>
<td>Research Strategy and Development</td>
<td>Shelly Wright, PhD</td>
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**FY22 By the Numbers**

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Subspecialty Sections</th>
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<tbody>
<tr>
<td>323</td>
<td>15</td>
</tr>
<tr>
<td><strong>1,310,955</strong></td>
<td>RVU’s</td>
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<tr>
<td><strong>206,898</strong></td>
<td>Onsite Visits</td>
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<tr>
<td><strong>61,901</strong></td>
<td>Emergency Room Encounters</td>
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<tr>
<td><strong>41,694</strong></td>
<td>Offsite Visits</td>
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<tr>
<td><strong>11,595</strong></td>
<td>Telemedicine Visits</td>
</tr>
<tr>
<td><strong>16,609</strong></td>
<td>Admissions</td>
</tr>
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</table>

**Clinical Activity**

**Transplant Cases** 456

**#22 in NIH Funding (2021)**

**$108M** Total NIH Awards

**$27M** Clinical Trial Earnings

**$168M** Total Sponsored Research Awards & Clinical Trials Earnings

**NIH Program Project Grants** 8

**Research Activity**

**Educational Activity**

<table>
<thead>
<tr>
<th>Trainees</th>
<th>Residents</th>
<th>Subspecialty Fellows</th>
</tr>
</thead>
<tbody>
<tr>
<td>307</td>
<td>176</td>
<td>131</td>
</tr>
</tbody>
</table>

**NIH T32 Training Grants**

**Department of Medicine Annual Report**
Elected Fellows of the American Academy of Arts and Sciences
Graeme Bell, PhD
Olufunmilayo Olopade, MD

Elected Fellows to the American Association for the Advancement of Science
Maria Alegre, MD, PhD
Youri Glad, PhD

Elected Members of the Association of American Physicians
Maria Alegre, MD, PhD
Michael A. Becker, MD
Antonio Bianco, MD, PhD
Eugene Chang, MD
Arlene Chapman, MD
Marshall Chin, MD
Marcus Clark, MD
Fredric Cox, MD
Thomas Gajewski, MD, PhD
Alan Leff, MD
Bana Jabri, MD, PhD
James Liao, MD
Harvey Golomb, MD
Lucy Godley, MD, PhD
Thomas Gajewski, MD, PhD

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

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

American College of Physicians Masters
Mark Siegler, MD

Department of Medicine Named Professorships
Vinroot 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 Distinguished Service 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. Coggeshall Professor
Robert Grossman, PhD – Frederick H. Rawson Distinguished Service Professor
Bana Jabri, MD, PhD – Sara & Harland Lincoln Thompson Distinguished Service Professor
Karen Kim, MD, PhD – Sara & Harland Lincoln Thompson Professor*
Roberto Lang, MD – A. J. Carlson Professor
James Liao, MD, PhD – Harold H. Hines, Jr. Professor
Michelle Le Beau, MD – Arthur and Marian Edelson Professor
David Meltzer, MD, PhD – Fanny L. Pritzker Professor
Olufunmilayo Olopade, MD – Walter L. Palmer Distinguished Service Professor
Monica Pech, MD – Ellen H. Block Professor for Health Justice *
Eric Pamer, MD – Donald F. Steiner Professor
Louis Philipson, MD, PhD – James C. Tyrne Professor in Diabetes Research & Care
Kenneth Polonsky, MD – Richard T. Crain Distinguished Service Professor
Nandini Prabhakar, MD – Harold H. Hines, Jr. Professor
Mark Ratain, MD – Leon O. Jacobson Professor
Samuel Refetoff, MD – Frederik H. Rawson Professor
David Ruben, MD – The Joseph B. Kirstner 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
Keytumart Solantii, MD – Allan L. Lowrence Professor
Sonali Smith, MD – Elwood V. Jensen Professor
Julian Solway, MD – Walter L. Palmer Distinguished Service Professor
Walter Stabler, MD – Fred C. Buffett Professor
Wendy Stock, MD – Arjumand Sayyed-Nasir Professor in Leukemia
Eve Van Caster, PhD – Frederick H. Rawson Professor
Everett Voiles, MD – John E. Ultmann Professor

Mary Shok, MD (2014)
David Meltzer, MD, PhD (2015)
Wendy Stock, MD (2016)
Graeme Bell, MD (2017)
Vinroot Arora, MD (2018)
Elbert Huang, MD (2019)
Mark Ratain, MD (2020)
Mark Siegler, MD (2021)
Sonali Smith, MD (2022)

Leif B. Sorensen, MD, PhD Faculty Research Award
Suzeane Conzen, MD (2007)
Maria Alegre, MD, PhD (2008)
Anna Spertini, MD (2008)
Bana Jabri, MD (2009)
Eric Svensson, MD, PhD (2010)
Elbert Huang, MD (2011)
Patrick Wilson, PhD (2012)
Konstantin Bloukev, MD, PhD (2013)
Lucy Godley, MD (2014)
John Schneider, MD, MPH (2014)
Yu Ying-Ho, MD (2015)
Era Taiwai, MD (2016)
Monica Pech, MD (2017)
Yun Fang, PhD (2018)
Megan Huisenga-Schweitzer, MD (2019)
Neda Lalaniwong, MD (2019)
Justin Klime, MD (2020)
Valerie Press, MD (2020)
Alexandra Dumitscrici, MD, PhD (2021)
Milda Saunders, MD (2021)
Anshika Bas, MD (2022)
Alexander Pearson, MD, PhD (2022)

Diversity Award:
Monica Wala, MD (2010)
David Howes, MD (2011)
Blanca Camarotti-Mercado, PhD (2012)
Minoli Pineria, PhD (2013)
Monica Pech, MD, MPH (2014)
John Schneider, MD, MPH (2015)
James Woodrow, MD (2016)
Doriano Miller, MD (2017)
Milda Saunders, MD (2018)
Kamala Cotto, DO (2019)
Shelley Williams, MD (2020)
Kema Carter, MD (2021)
Sonali Paul, MD (2022)

AWARDS

Distinguished Service Awards
Joseph B. Kirstner, MD (2006)
Janet Rowley, MD (2007)
Louis Cohen, MD (2008)
Morton Arnow Dort, MD (2008)
Angelo Scard, MD (2010)
Keytumart Solantii, MD (2011)
Jessie B. Hall, MD (2013)
Roy C. Weiss, MD, PhD (2014)
Mark Siegler, MD (2014)
Samuel Refetoff, MD (2015)
Eve Van Caster, PhD (2016)
Roberto Lang, MD (2017)
Dorothy Hanaz, PhD (2017)
Lindia Drueckinger, MD (2018)
Michel Le Beau, PhD (2018)
Joseph Baron, MD (2019)
Edward Ganty, Jr., MD (2019)
David Fizek, MD (2020)
Emily Landon, MD (2020)
Kathleen Mulane, DO (2020)
Philip Huffman, MD (2021)
Julian Solway, MD (2021)
Harvey Golomb, MD (2022)

Arthur H. Rubenstein, MD Mentorship Award
Eugene B. Chang, MD (2017)
Julian Solway, MD (2018)
Jesse Hall, MD (2009)
Roberto Lang, MD (2010)
Marshall Chin, MD (2010)
Fredric Cox, MD (2011)
Olufunmilayo Olopade, MD (2012)
Deborah Bumet, MD (2013)

*Elected/Named in FY22/FY23
Faculty Highlight

Julie Oyler, MD, is an accomplished medical educator, clinician and scholar whose work focuses on quality improvement and patient safety as well as gender equity in medicine.

Dr. Oyler received her Bachelor of Science degree at Stanford University followed by her MD at the Pritzker School of Medicine. She is a graduate of the Department’s Internal Medicine Residency (IMR) Program where she also served as chief resident. In 2006, she was appointed to the faculty.

Dr. Oyler is a leader in medical education across the institution and is responsible for the creation and implementation of several innovative educational initiatives. For the past 16 years, she has served as associate director of the IMR Program where she is responsible for all ambulatory education and outpatient clinical experiences. In this role, she and her colleagues have developed the two year Quality Assessment and Improvement Curriculum (QAC) that is based on the American Board of Internal Medicine’s Practice Improvement Modules, and has been used to teach over 500 residents two core competencies—Practice-Based Learning and Improvement (PBL) and Systems-Based Practice (SBP). In addition, as associate medical director of the Primary Care Group and along with primary care colleagues, Dr. Oyler developed multiple educational interventions. These included a novel handoff curriculum for graduating residents when transitioning their continuity clinic patients, an interprofessional education curriculum, a behavioral medicine curriculum, a boot camp curriculum for new interns, a women’s health curriculum and a telehealth curriculum during the COVID pandemic.

Dr. Oyler is a recognized leader in the field of quality improvement and patient safety (QIPS) education. She created a QIPS curricula for internal medicine residents, medical students and faculty to promote engagement in quality improvement projects and patient safety work, and has recently been expanded to include population health and cost/value topics.

She is currently co-director of the Healthcare Delivery Improvement Science Track at the Pritzker School of Medicine to train medical student leaders in quality improvement and patient safety. Dr. Oyler is an educational leader in the Center for Healthcare Delivery Science and Innovation and most recently has been leading the Certificate Program in Healthcare Delivery Science and Innovation.

Dr. Oyler’s award-winning work has resulted in many publications and presentations, including many external presentations by students and residents whom she has mentored in these methods. Given her national reputation in the field, Dr. Oyler was selected for leadership roles for three national QIPS educational initiatives. Dr. Oyler is funded by three major national organizations: American College of Physicians (ACP), Association of American Medical Colleges (AAMC) Teach for Quality and Safety of Hospital Medicine (SHM) Quality and Safety Educator Academy. Through these initiatives, Dr. Oyler has educated over 500 faculty nationally in QIPS across multiple medical specialties ranging from pediatrics to anesthesiology to internal medicine.

In addition to her dedication to medical education, Dr. Oyler is a passionate advocate for gender equity in medicine. In 2017, she was appointed as chair of the DOM’s Women’s Committee, and has enthusiastically and successfully worked to enhance and enrich the academic environment for the Department’s women faculty and trainees. Examples of her innovative work include the establishment 4 subcommittees focused on recognition, professional development, advocacy and communication. She has chaired multiple committees for the national Women in Medicine Summit. In Fall of 2022, Dr. Oyler will lead the 40th Annual MacLean Center Public Lecture Series entitled “Gender Equity and Ethics” which will bring together over 30 speakers to address current issues women face in academic medicine.

As a national leader, Dr. Oyler currently serves on the Teach for Quality Faculty of the American Association of Colleges of Medical Colleges and the Society of Hospital Medicine, Quality and Safety Educator Academy faculty, and recently served as an ACP-AdvanC-Med Quality Improvement Coach. Dr. Oyler is past president of the Midwest Society of General Internal Medicine and was the 2019 recipient of their Leader in General Internal Medicine Award. She recently completed a 3 year term as chair of the GIM Board of Regional Leaders. Institutionally, Dr. Oyler is an elected member of the Academy of Distinguished Medical Educators.

Diversity, Equity and Inclusion (DEI) Overview

Diversity is critical to the process of discovery, patient care and education and the Department of Medicine (DOM) is committed to ensuring a culture of inclusiveness and equity to the under-represented in medicine (URiM) community. In FY22 the DOM made great strides to strengthen the DEI mission and infrastructure to advance these efforts with the appointments of three outstanding leaders.

Durian Miller, MD, Professor of Medicine (General Internal Medicine), is an accomplished medical educator and Director of the Center for Community Health and Vitality for University of Chicago Medicine (UCM) who was appointed as Vice Chair for DEI to lead efforts to promote diversity through the recruitment, retention, mentorship and promotion of students, housestaff and faculty underrepresented in medicine, to foster an inclusive climate free of harmful bias and to assist in the delivery of equitable health care practices for our patients and communities.

Dr. Miller received her MD from the Pritzker School of Medicine in 1983. She completed her internal medicine training and general medicine/clinical epidemiology fellowship training at UCSF. In 1991, she was appointed to the UCSF faculty where she remained for 6 years. In 1997, she joined the faculty at the University of Medicine and Dentistry of New Jersey where she served for four years. In addition, she was a program vice-president at the Robert Wood Johnson Foundation. Prior to joining the Department of Medicine in January 2009, Dr.
Dr. Monica Peek, Health Partnerships, a demonstration project funded by The Robert Wood Johnson Foundation and the California Health Care Foundation on collaborative self-management support.

Dr. Miller has been providing care to underrepresented minority communities for more than 30 years. She has a special interest in behavioral health. Under her leadership, physicians, educators, and community members work to improve population health outcomes for residents on the South Side of Chicago through community-engaged research, demonstration and service models. She has pioneered the use of a novel model, Community Grand Rounds, a series of educational events in community settings that focus on health care topics of importance to local communities.

Dr. Miller’s research focuses on the intersection of health disparities and race. She has served as the project director for several studies designed to augment care by promoting collaboration among physicians, patients and families. She has worked with a variety of programs such as Community Rx and the IIM to engage trainees in understanding social determinants of health on the south side of Chicago and to connect patients with advisory committees in local clinical research to ensure meaningful community participation. Dr. Miller’s work in the area of improving asthma outcomes through school and community interventions was noted by the American Academy of Asthma, Allergy and Immunology with a 2006 Special Recognition Award.

Dr. Monica Peak, the Ellen H. Block Professor for General Internal Medicine, was appointed as Associate Vice Chair for Faculty Development. In her role she is working with other members of the Department’s leadership team to promote diversity through the recruitment, retention, mentorship and promotion of trainees and faculty underrepresented in medicine and advise and mentor them in their scholarly activities and career advancement.

Dr. Peak received her MPH in Health Policy and Management and her MD from Johns Hopkins University prior to completing her clinical training as an Internal Medicine Resident from Stanford University Hospital. She then worked for the National Health Service Corps for two years at a community health center for the medically underserved in Ohio before joining the faculty of the Department of Medicine in 2006.

Dr. Peak’s work has focused on improving the health and health care for marginalized populations, such as racial/ethnic minorities. Her research has explored promoting equitable doctor/patient relationships among racial minorities, integrating the medical and social needs of patients, and addressing healthcare discrimination and structural racism that impact health outcomes (e.g., diabetes, COVID-19). She has conducted impactful work on reducing health care disparities and improving the health of residents on the South Side of Chicago by implementing, evaluating and disseminating a successful multi-faced NIH SBIR Intervention to improve diabetes outcomes. Dr. Peak is currently the Co-PI for the national program Bridging The Gap on Racism and Health Outcomes with a focus on addressing the medical and social care needs of marginalized populations to improve diabetes health outcomes. Her efforts this year are particularly noteworthy as she worked as a clinician, bioethicist, public health expert and health services researcher to advocate for policy and clinical solutions to disparities in COVID-19 prevention (e.g. vaccine distribution), care and health outcomes.

Dr. Peak has served as the principal investigator of multiple grants from institutions such as NIH/NIDDK, the Robert Wood Johnson Foundation, the Greenwall Foundation and the Merck Foundation. She is a Senior Associate Editor for the Journal of Health Services Research, a member of the Executive Council for the American Diabetes Association and a recent member of the National Advisory Council (NAC) for the Agency for Healthcare Research & Quality (AHRQ).

Dr. Peak has mentored individuals at all levels, from community leaders to trainees in high school, college, medical school, residency and fellowship, and junior faculty colleagues. Her long-standing track record of mentorship has been integral in the development of academic physicians focused on health disparities and community health.

One of the Department’s goals is to continue to expand the presence of URiMs in our residency and fellowship programs and provide the mentoring and support that will lead to a more diverse faculty in the future. Keme Carter, MD, Associate Professor of Medicine (Emergency Medicine) and Associate Dean for Admissions at the Pritzker School of Medicine (PSSOM) was appointed as Associate Vice Chair for Diversity, Equity and Inclusion (DEI) Education to assist in achieving this goal. In her new role, Dr. Carter works closely with Drs. Miller and John McConville, MD, Vice Chair of Education, as well as fellowship program directors across the Department to oversee recruitment, GME climate as it relates to DEI, GME affinity groups and faculty development.

Dr. Carter obtained her medical degree from the University of Alabama School of Medicine and completed her residency training in emergency medicine at the University of Chicago. She subsequently joined our faculty in 2006. In addition to her role at Pritzker, Dr. Carter currently serves as the Director of Undergraduate Medical Education for the Section of Emergency Medicine and the Emergency Medicine Clerkship Director.

Dr. Carter’s passion for enhancing diversity in medical education is exemplified by her contributions at PSSOM where she led initiatives that resulted in a significant increase in the number of underrepresented and low-income students who matriculate, earning PSSOM recognition as one of the most diverse and selective medical schools in the country. She has been recognized for her excellence as a medical educator by her peers, residents, and students. She currently serves as a Master in the Academy of Distinguished Medical Educators and as a Faculty Scholar in the Buckbaum Institute for Clinical Excellence and is a three-time recipient of the Dorohozhii Outstanding Clinical Teaching Award and the Leonard Tow Humanism in Medicine Award. In 2015 she was awarded the Biological Sciences Division Distinguished Educator/ Mentor Award for Excellence in Clinical Education and in 2021 she was named as the recipient of the Department of Medicine’s Diversity Award.

Working with Drs. Miller and McConville, Dr. Carter will ensure and organize a departmental presence at national recruitment conferences, provide key guidance for faculty in conducting holistic review, support the development and implementation of recruitment strategies, and liaise between the GME Diversity Committee and the DOM to identify interventions that promote a climate of belonging for trainees of diverse backgrounds. Dr. Carter will also play an important role in facilitating mentor/mentee relationships between URiM trainees and DOM faculty.

Abdullah Pratt, MD (Emergency Medicine) - Established the Medical Careers Exposure Emergency Preparedness Program (MEDCEEP) that focuses on empowering UIM youth to become trained in recognizing and responding to life-threatening emergency scenarios while exposing them to health-related careers. He has also 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.

Bryan Smith, MD (Cardiology) - Launched the Cardiology Mentorship Program that introduces high school juniors and seniors to a variety of healthcare careers by connecting them with physicians, nurses, advanced practice providers, medical technicians, researchers, executives, engineers and other professionals through a series of workshops and activities.

Victoria Barbosa, MD (Dermatology) - Established the Hair Diseases Clinic for the treatment of hair diseases in patients of color.

In FY22 the Department of Medicine initiated or enhanced many DEI efforts. A select list follows below:

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INCLUSION AND IMPACT

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. FY22 was an extraordinary year for the Department due to the success of the dedicated faculty who competed for a record high of $168.4M 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 appointment of Monica Peek, MD as the Associate Vice Chair for Research Faculty Development. Working with Research Vice Chairs Drs. Valerie Abadie, Valerie Press, and Jessica Prabhakar, PhD promoting diversity through the recruitment, retention, mentorship and promotion of students, housestaff and faculty underrepresented in medicine to advance the Department’s scientific mission.

During the past academic year, the Department of Medicine’s research portfolio totaled over $117M in federal awards, $32.7M in industry funded grants/clinical trial earnings and nearly $19M in non-federal awards. In FY22 faculty in the Department of Medicine acquired 30 new or competitively renewed federal awards totaling approximately $19.3M in annual total costs. Noteworthy high impact grants include the successful renewal of the P50 Chicago Center for Diabetes Translational Research (Marshall Chin, MD & Monica Peek, MD+). Dr. Elbert Huang, MD was the recipient of a new P50 entitled “Chicago Chronic Condition Equity Network (C2EN)” – Elbert Huang, MD +. The Center for Interdisciplinary Study of Inflammatory Intestinal Disorders (P30) – Bana Jabri, MD, PhD. The Department of Medicine is committed to training the next generation of scientists in biomedical research, and is home to 12 T series, two K12 training programs and 34 K (career development) grants. In FY22, Andrew Dahl, PhD and Jenna Guthmiller, PhD received new individual NIH K awards.

Select High Impact Federal Awards*

- Infectious and the Stability of Transplantation Tolerance (P01) – Marisa Alejandre, MD, PhD
- Diabetes Research Training Center (P30) – Graeme Bell, PhD
- Chicago Center for Diabetes Translation Research (P30) – Marshall Chin, MD & Monica Peek, MD+
- Chicago-Chronic Condition Equity Network (C2EN) – Elbert Huang, MD +
- Center for Interdisciplinary Study of Inflammatory Intestinal Disorders (P30) – Bana Jabri, MD, PhD
- Center for Health Aging Behaviors, and Longitudinal Investigations (CHABLIS) (P30) – Bana Jabri, MD, PhD
- Integrative Consequences of Intermittent Hypoxia (P01) – Nanduri, Prabhakar, PhD
- Pathogenesis of Calcium Nephrolithiasis (P01) – Elane Weiser, MD

*Represents $1.0M or more in annual total cost funding

A list of the DOM FY22 Total Sponsored Research Awards and a list of scholarly publications by section can be found at: medicine.uchicago.edu

The 8th annual Janet D. Rowley Research Day was held virtually on March 1, 2022 with an outstanding presentation by Kimryn Rathmell, MD, PhD, the Hugh Jackson Morgan Chair in Medicine, Physician in Chief and Professor of Biochemistry at Vanderbilt University. Best abstract winners in the faculty category were Drs. David Wu, Bhakti Patel, Ari Rosenberg and Juan Rojas. In the trainee category, best abstract winners were Drs. Abhishek Kulkarni, Sandra Naaman, Matthew Ettelson, Amina Bashra and Madeline Durkee.

Recognizing the research success of an outstanding mid-level scientist the Department selected Anirnya Bag, MD and Alexander Pearson, MD, PhD as the recipients of the 2022 Lee B. Sorensen, MD, PhD Faculty Research Award.

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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 and are comprised of dedicated clinical innovators who are committed to advancing discoveries that transform patient care and health outcomes. Significant highlights from the past academic year include national recognition for the state-of-the-art clinical programs, increased activity across all clinical operations, improved patient access, and improved length of stay.

Six Department of Medicine specialties made the national top 50 list as part of the US News & World Report rankings that were published in July 2022. Gastroenterology maintained its #14 ranking from the previous year. Cardiology ranked #14, cardiology surgery ranked #38, radiology ranked #39, endocrinology and diabetes ranked #17 from #14 from the previous year. Chicago magazine’s annual “Top Doctors” list included nearly 80 physicians from the Department of Medicine. In FY22 UCM continued to expand off-site practices. The Department’s outpatient practices at the River East facility accounted for 16,630, a slight increase over FY21. The Section of Emergency Medicine (EM) provided the lowest percentage of patients admitted to the hospital for traumatic injuries. EM improved throughput, revenues and wRVU generation capabilities. In addition, the Section’s providers and learners have continued to care for a sustained COVID-19 presence in the ED as well as an increase in patients suffering from acute traumatic injuries. ED presentations in FY22 totaled 61,906, a slight decrease from the prior year while the LWBS % increased to 13.1% from 11.5% from FY21.

In FY22, 456 transplants were performed with bone marrow transplants accounting for over 25% (123 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 Midwest to have this therapy available as a standard of care. In FY21 a total of 37 CAR T-cell procedures were done, nearly doubled from the prior year. Under the leadership of Sean Pinney, MD, the Advanced Heart Failure Program (AHFP) continues to grow and thrive. Over the past year, 57 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.

In adult emergency room (ED) operations, Thomas Spiegel, MD assumed the role of interim Chief for the Section of Emergency Medicine (EM). Under his leadership, and continuing service as the medical director of the Adult ED, he implemented several new programs designed to ameliorate the effects of excessive boarding of admitted patients due to hospital inpatient capacity issues. One such program was to reconfigure “area 11” to be used as a low-acuity treatment area for patients who are not likely to be admitted. Along with several hospital-wide initiatives, the ED began to see boarding hours decrease in February and subsequent months, which in turn, improved throughput, revenues and wRVU generation capabilities. In addition, the Section’s providers and learners have continued to care for a sustained COVID-19 presence in the ED as well as an increase in patients suffering from acute traumatic injuries. ED presentations in FY22 totaled 61,906, a slight decrease from the prior year while the LWBS % increased to 13.1% from 11.5% from FY21.

The Department’s cardiac programs also had a successful year, with the interventional program experiencing a 9.1% procedural growth compared to FY21 and 27.3% growth in structural heart disease and pulmonary artery procedures. The number of interventional cardiology procedures performed continued to rise and grew 7.4% compared to FY21. Cardiac MRI procedures number were sustained, and the Cardiac CT procedures increased by 23% this past year. The heart failure/transplant performed 57 transplants in FY22.

In FY22, the Transplant Institute performed 74 liver transplants. This Department’s cardiology programs also had a successful year, with the interventional program experiencing a 9.1% procedural growth compared to FY21 and 27.3% growth in structural heart disease and pulmonary artery procedures. The number of interventional cardiology procedures performed continued to rise and grew 7.4% compared to FY21. Cardiac MRI procedures number were sustained, and the Cardiac CT procedures increased by 23% this past year. The heart failure/transplant performed 57 transplants in FY22.

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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 born 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, 85% of the graduates pursue subspecialty training. The 2021 fellowship match successfully matched 34 residents into many of the most competitive and premier fellowship programs in the country, including 13 who continued their training at the University of Chicago. Hematology/Oncology was the most popular fellowship choice with 17 house staff matching to outstanding programs across the country. Other frequent fellowship choices included cardiology and pulmonary/critical care (5), infectious disease (4), and gastroenterology (5). Importantly, 18% of the DOM fellows starting this past July self-identified as coming from racial and ethnic groups that are underrepresented in medicine.

All DOM training programs continue their recovery from the pandemic’s impact on educational activities. Towards the end of FY22 many teaching conferences were able to be transitioned back to in-person which was a welcomed change from the prior two years. All of the department’s trainees continue to step up during the on-going crisis and demonstrate 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, UIC patient outcomes are better than national averages and are evidence of the outstanding care provided by medicine interns, residents, fellows and faculty.

In FY22, Mim Ari, MD and Jason Alexander, MD led the Internal Medicine Intern Selection Committee. A PGY2 class of 40 interns was successfully recruited from 317 applicants. IMR applicants from some of the most prestigious medical schools continue to be attracted to the rigorous clinical training, diverse patient population, outstanding faculty mentorship and cutting edge therapeutic interventions. 28% of the new intern class self-identified as under-represented in medicine (URiM). Drs. Dorian Miller, Bryan Smith and the entire Diversity Committee were instrumental in recruiting such a talented and diverse class. The Physician Scientist Development Program (PSDP), which is led by Dr. Sonia Kupfer, recruited an outstanding MD/PhD student to continue their residency and fellowship training in Hematology/Oncology at the University of Chicago.

The Emergency Medicine Residency Program led by James Ahn, MD, MPH continues to provide outstanding clinical training, scholarship opportunities and leadership development for 18 talented emergency medicine residents each year. The incoming class of 2024 was drawn from coast to coast with over 50% from top 50 medical schools including Duke University, Stanford University, University of Washington and the Pritzker School of Medicine. Most importantly, the Emergency Medicine Residency continued its strong tradition of recruiting URiMs with 1/3 of the incoming class comprised of URiMs. Many of the incoming interns have been accorded AOA and/or Gold Humanism Awards and all have achieved high levels of service and/or research during medical school. This is an outstanding and diverse group of individuals with a wide range of academic interests that will continue to serve our patient population by addressing healthcare disparities both in and out of the emergency department. In accordance with these values, the emergency medicine residents once again had the largest amount of representation for the GME Community Champions which engages residents in a collaborative effort with community leaders against healthcare inequities. The 2022 graduates from the Emergency Medicine Residency Program largely pursued academic careers as All open slots. Incoming residents who began in July 2022 consist of graduates from Emory, George-town, University of Chicago, and University of Cincinnati. The class includes a Fulbright Scholar and one quarter of the intern class is URiM. Among their collective interests are eliminating health care disparities among patients with Sickle Cell Disease, organ transplantation, health policy and health services research. The 2022 Medicine-Pediatrics graduating class-Residents matched into highly competitive fellowships at the National Institutes of Health, University of Chicago and at Northwestern University.

Honor: 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 FY22, 9 Medicine faculty were recognized as “Faculty Favorite” by the Pritzker graduating. Sonali Smith, MD was awarded the Department’s Arthur Rubinstein Mentorship Award. Within the Biological Sciences Division, Stacie Levine, MD was the recipient of the Distinguished Educator and Leader Award.

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. This Department is home to several nationally recognized medical research training programs, including NIH-funded training (T32) grants in cardiology, adult and pediatric endocrinology, oncology, respiratory biology, digestive diseases, economics of aging and clinical therapeutics as well as a medical scientist training program. New in FY22 were T32’s awarded to Neda Laiteerapong, MD to train primary care investigators in chronic diseases and health disparities, and David Meltzer, MD, PhD focused on a MD, PhD program in medicine, the social sciences and Alzheimer’s disease and related dementias. The Department also holds two NIH K23 grants in oncology and HIV-related cardiovascular and sleep disorders and nine P50 NIH awards.

Department of Medicine Awards
• Preclinical Teacher of the Year: Philip Hoffman, MD
• Clinical Teacher of the Year: Jeannie Faman, MD
• Postgraduate Teaching Neda Laiteerapong, MD
• Medicine Resident Teaching Awards
  o Kamila Cotts, MD
  o Gena Kim, MD
  o JP Kress, MD
  o Krysta Wolfs, MD
• Emergency Medicine Resident Awards:
  o Faculty Educator of the Year: Nafo Olson, MD
  o Mentorship Award: Navneet Cheema, MD
  o Clinical Teacher of the Year Award: Nicholas Ludmer, MD

Pritzker School of Medicine Education and Mentorship Awards
• LDH Wood Preclinical Teaching Award: Peter O’Donnell, MD
• Basic Science Teaching Award: Benjamin Ko, MD
• Dmeanzah Clinical Teaching Award & Faculty Marshal: Kema Carter, MD (2022)
• Hilger Perry Jenkins Award: Alejandro Plana, MD
• Favorite Faculty Award Winners:
  o Kema Carter, MD (Emergency Medicine)
  o Jeannie Faman, MD (Hospital Medicine)
  o Benjamin Ko, MD (Gastroenterology)
  o Wei Wu Lee, MD (General Internal Medicine)
  o Peter O’Donnell, MD (Hematology/Oncology)
  o Amber Pinchava, MD (General Internal Medicine)
  o Jason Poston, MD (Pulmonary/Critical Care)
  o Abdullah Pratt, MD (Emergency Medicine)
  o James Woodruff, MD (General Internal Medicine)
Under the direction of Robert L. Grossman, PhD, the Section of Biomedical Data Science (BDS) provides an intellectual home for faculty whose research interests encompass: a) biomedical data science (data science and its applications to biology, medicine and health care); b) computational biomedicine (using computational methods to understand biological mechanisms and to aid in the diagnosis and treatment of disease); and c) biomedical informatics (bioinformatics, translational informatics, and clinical and medical informatics). For convenience, we refer to this span of research simply as biomedical data science. Biomedical data science is becoming increasingly important for making discoveries in the biological sciences, for improving medical care, and for contributing to the emerging field of digital health.

In FY22, Aarti Venkat, PhD joined the Section as an assistant professor of medicine and as Director of Clinical Informatics; Center for Translational Data Science. Dr. Venkat received her PhD in human genetics at the University of Chicago and recently served as Associate Director of Bioinformatics at Tampar. Her research is focused on the development and application of computational and statistical pipelines to large datasets to improve our understanding of the genetic basis of diseases. She is particularly interested in identifying genomic loci that are therapeutically targetable.

Work in Dr. Andrey Rzhetsky’s lab resulted in over a dozen articles that were published in the last year. One highlight from Dr. Rzhetsky’s laboratory concerns predicting dementia in older adults without dementia. One machine learning classifier forecasted a 5-year cognitive decline with over 85% accuracy using hip data, and another machine learning classifier forecasted 5-year cognitive decline with nearly 70% accuracy using wrist data. Another highlight from Dr. Rzhetsky’s research relates to robust science. It is well understood today that important scientific results be ‘replicable’ (repeatable in the same laboratory under identical conditions) and ‘reproducible’ (reproducible in other laboratories under similar conditions). Dr. Rzhetsky’s research focused on robust scientific results, which are results that are replicable under a wide range of conditions. Working with collaborators, he developed a semi-automated process for testing reproducibility and robustness of simple statements (propositions) about cancer cell biology that were automatically extracted from the cancer literature. The research showed that semi-automated reproducibility testing is currently achievable, and when scaled up, has the potential to mitigate some of the current challenges reproducibility scientific research (Journal of the Royal Society Interface, 2022).

Alexander Pearson, MD, PhD, an affiliate member of the Section, continues to work on exciting research at the interface of precision oncology and machine learning. His research group has published numerous manuscripts over the last year, including corresponding works in Nature Communications (2021) describing bias-prope AI-based digital breast cancer lesion; in Cell Death & Disease, 2021 describing mechanisms of head/neck cancer resistance; and in JAMA Network Open, 2021 describing mathematical modeling to optimize post-treatment cancer surveillance. Dr. Pearson’s group has received multiple peer-reviewed grants over the last year, including from the NIH, SU2C (Stand Up To Cancer), and as institutional co-PI on a Translational EU-funded AI grant. Over the last year Dr. Pearson’s laboratory has also initiated several industry-sponsored research projects. Dr. Pearson serves on the Scientific Committee for the ASCO annual meeting and organized a multi-day meeting “Contemporary AI Applications in Dental Research” for the American Association for Dental Oral, and Craniofacial Research. This year, he was named Director of the Head/Neck Cancer Program and Director of Data Sciences for the Section of Hematology/Oncology.

During the past year, Aly Khan, PhD in Pathology, an affiliate member of the Section, worked on new methods to better understand and characterize the transcriptional states of immune cells in diverse biological scenarios using single-cell RNA sequencing (scRNAseq) data. First, in a collaboration he developed a new method called Lindi-View, which is a novel method for better modeling immune cell heterogeneity by combining single-cell transcriptomes and surface protein expression data (Cell Reports Methods, 2021). Second, a collaboration developed Paascell Otter, a new method for inferring dynamic cellular trajectories from scRNAseq data, and applied it to B cells undergoing immunoglobulin class switch recombination (PLoS Computational Biology, 2021). Dr. Khan is now working to link these sequencing-based characterizations with imaging data. In a collaboration with Chris Weibel, MD, PhD (Pathology) and others, he has recently begun to generate and analyze spatial transcriptomics data as a new way to model the spatial composition of immune cells in H&E whole slide images. He anticipated that this development of new integrative, spatial methods will open up new avenues for accelerating biomarker discovery and predictive modeling.

Effective and timely antibiotic treatment depends on accurate and rapid in vitro antimicrobial-resistant (AMR) predictions. Existing statistical rule-based models for large scale genomics research (Cell, 2021) and a summary of current efforts to develop crowdsourced AMR models for large scale genomics research (Nature Communications, 2021) describing bias-prope AI-based digital breast cancer lesion; in Cell Death & Disease, 2021 describing mechanisms of head/neck cancer resistance; and in JAMA Network Open, 2021 describing mathematical modeling to optimize post-treatment cancer surveillance. Dr. Pearson’s group has received multiple peer-reviewed grants over the last year, including from the NIH, SU2C (Stand Up To Cancer), and as institutional co-PI on a Translational EU-funded AI grant. Over the last year Dr. Pearson’s laboratory has also initiated several industry-sponsored research projects. Dr. Pearson serves on the Scientific Committee for the ASCO annual meeting and organized a multi-day meeting “Contemporary AI Applications in Dental Research” for the American Association for Dental Oral, and Craniofacial Research. This year, he was named Director of the Head/Neck Cancer Program and Director of Data Sciences for the Section of Hematology/Oncology.

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The research showed that semi-automated reproducibility testing is currently achievable, and when scaled up, has the potential to mitigate some of the current challenges reproducibility scientific research (Journal of the Royal Society Interface, 2022).

Alexander Pearson, MD, PhD, an affiliate member of the Section, continues to work on exciting research at the interface of precision oncology and machine learning. His research group has published numerous manuscripts over the last year, including corresponding works in Nature Communications (2021) describing bias-prope AI-based digital breast cancer lesion; in Cell Death & Disease, 2021 describing mechanisms of head/neck cancer resistance; and in JAMA Network Open, 2021 describing mathematical modeling to optimize post-treatment cancer surveillance. Dr. Pearson’s group has received multiple peer-reviewed grants over the last year, including from the NIH, SU2C (Stand Up To Cancer), and as institutional co-PI on a Translational EU-funded AI grant. Over the last year Dr. Pearson’s laboratory has also initiated several industry-sponsored research projects. Dr. Pearson serves on the Scientific Committee for the ASCO annual meeting and organized a multi-day meeting “Contemporary AI Applications in Dental Research” for the American Association for Dental Oral, and Craniofacial Research. This year, he was named Director of the Head/Neck Cancer Program and Director of Data Sciences for the Section of Hematology/Oncology. During the past year, Aly Khan, PhD in Pathology, an affiliate member of the Section, worked on new methods to better understand and characterize the transcriptional states of immune cells in diverse biological scenarios using single-cell RNA sequencing (scRNAseq) data. First, in a collaboration he developed a new method called Lindi-View, which is a novel method for better modeling immune cell heterogeneity by combining single-cell transcriptomes and surface protein expression data (Cell Reports Methods, 2021). Second, a collaboration developed Paascell Otter, a new method for inferring dynamic cellular trajectories from scRNAseq data, and applied it to B cells undergoing immunoglobulin class switch recombination (PLoS Computational Biology, 2021). Dr. Khan is now working to link these sequencing-based characterizations with imaging data. In a collaboration with Chris Weibel, MD, PhD (Pathology) and others, he has recently begun to generate and analyze spatial transcriptomics data as a new way to model the spatial composition of immune cells in H&E whole slide images. He anticipated that this development of new integrative, spatial methods will open up new avenues for accelerating biomarker discovery and predictive modeling.
The Section of Cardiology continues to focus on its tripartite mission of providing high-quality patient care, innovative research, and dedicated teaching under the leadership of James K. Liao, MD. As a result, USNWR ranked the cardiology/heart surgery program as #44 in the July 2022 Best Hospital rankings, and Newsweek/Statista ranked the Heart and Vascular Center as the 29th best in the world and the best in Illinois. Within the Section of Cardiology, Roberto Lang, MD was named the A. J. Carlson Professor for his seminal work in developing and applying three-dimensional transcranial and transosophagal echocardiography. During this past year, the Section has re-established the CV Genetics Program, led by Dr. Gene Kim to provide this important consultative service for patients. Other notable highlights from FY22 included the Cardio-Oncology Program, led by Jeanne DeCara, MD, which attained the International Cardio-Neural Ablation (CNA) for the treatment of vasovagal syncpe (VVS). This novel approach to treating VVS was presented at the recent Heart Rhythm Society national meeting as a late-breaker.

Under the leadership of Sean Finney, MD, the Advanced Heart Failure Program (AHF) has continued to maintain a high number of heart transplant patients with 57 heart transplants for FY22. In addition, the heart transplant program has the best overall survival, shortest time to transplant, and the highest percentage of minorities transplanted establishing UCM as one of the best heart transplant programs in the country. The high volume of heart transplants is due, in part, to referrals from North Shore Hospital (led by Nithasha Sarwat, MD) and outreach clinics at Ingalls, northwest Indiana, and Springfield, IL. Led by Ben Chiu, MD. The HF initiatives included the comprehensive heart failure disease management program, dyspnea clinic (Gara Kalantari, MD), and the hypertrophic cardiomyopathy program (Garth Kirsh, MD). Furthermore, there is an expansion of the remote pulmonary pressure monitoring system (CardioMEMS), under Dr. Chiu's leadership and the establishment of the integrative cardio-pulmonary program with North Shore Hospital under Dr. Sarwat's leadership.

The Cardiac Imaging group, led by Roberto Lang, MD continues to demonstrate strong research and clinical productivity with 5% increase as compared to last year. Dr. Lang and Federico M. A. C. are the principal investigators of the World Alliance Societies of Echocardiography Study (WASE). The WASE acquires worldwide 2D and 3D echocardiographic data from both genders and across a wide range of ages that are analyzed in collaboration with MedStar Heart Health Research Institute and the University of Chicago. The WASE will generate demographic data on the average chamber quantification values that will benefit echocardiography worldwide.

In FY22, the Section welcomed the arrival of 4 new cardiologists, including 3 at the assistant professor level and one at a clinical associate: Alan Jackson, Charles Germann, Hena Patel, and Kathleen Drinan. Dr. Jackson is the Director of the Southside Community Outreach Program. In addition to providing access and clinical care to the most vulnerable patient population on the Southside of Chicago, he also participates in educational events to establish connections and help provide cardiovascular disease education and prevention. Dr. Germain is a preventive cardiologist, with an interest in cardiovascular disease risk assessment in apparently healthy individuals and new series as the Director of Cardiac Rehabilitation. Dr. Patel's clinical focus is cardiac imaging and women's cardiovascular health. Dr. Drinan was recruited to the UCM-Orland Park clinic, and focuses comprehensive cardiology and women's cardiovascular health.

In FY22, the General Cardiology Program (GC), led by Tamar Polonsky, MD, expanded clinical services beyond Hyde Park to River East, Orland Park, and South Loop locations. As a result, the clinical productivity and outpatient visits of the general cardiology group led to significant growth in FY22. The Women's Cardiovascular Health Center, Southside community cardiology service, and Heart & Brain clinics were established in FY22 at the Hyde Park, River East, and Orland Park locations to provide wide-spread collaborative cardiovascular care. The Women's Cardiovascular Health Center collaborates with the OB/GYN services to provide personalized care for women with high-risk pregnancies and who are at risk for cardiovascular disease. In addition, Dr. James Liao, Dr. Alanman,Shah, and Dr. Shyam Prabhakaran; MD (Chair, Department of Neurology) invited a new Heart & Brain Clinic for stroke patients with concomitant cardiovascular disease and/or patients at risk for vascular dementia.

The Interventional Cardiology Program (IC), led by Atman Shah, MD and Sandeep Nathan, MD, MSc has grown substantially this year, with a 16% increase in clinical activities. The Comprehensive Venous Thrombosis and Pulmonary Embolism Program, led by Jonathan Paul, MD, continues to experience growth, both from outpatient and inpatient referrals. In FY22, finally, the Cardiac Catheterization Laboratory was selected as the only Chicago site to launch the SPYRAL AFFIRM catheter renal denervation program later this year (Dr. Sandeep Nathan is representing a novel therapeutic approach for resistant hypertension.

The Section’s research portfolio totaled nearly $4.4M in FY22, including two new federal awards. Dr. Liao was awarded NIH R01 and Dr. Polonsky is a co-investigator on an NIH R01 grant. Dr. Ozcan was awarded Gannen Award and Pfizer Pharmaceuticals funded Karima Addita, M.D. to study the early identification of ATTR amyloidosis using transthoracic echocardiography. Overall, the Section of Cardiology published more than 200 unique manuscripts in FY22, including high-impact publications. To further stimulate scholarly and research activities in the Section, Dr. James Liao and Coryn Tabel, MD established Cardi ovascular Data Sciences Center (CDS2) to provide tools and services for cardiovascular data research.

In the educational realm, the Section is home to one of the oldest NIH-funded T32 cardiovascular research training programs led by Dr. Liao. In addition, there are four ACORE-accredited clinical fellowship training programs led by Parker Ward, MD and subspecialty fellowship directors, Drs. Gina Kim, and Sandeep Nathan. Dr. Liao and Dr. Blair served as hosts and mentors for the University of Chicago’s PSOMER and CAMPS program for summer students, a pathway program that prepares and inspires talented students to pursue careers in medicine and health-related research. Dr. Bryan Smith directed the National Chairmanship program for high school seniors from the Southside, who are interested in careers in healthcare.
The Section of Dermatology had a successful clinical and academic year with a continued dedication to our tri-partite mission of teaching, research and patient centered care under the leadership of Diana Bolotin, MD, PhD. Major accomplishments in FY22 included continued work on growth 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. Section faculty continue to be recognized locally and nationally with Drs. Victoria Barbosa, Diana Bolotin, Arlene Ruiz de Luzuriaga and Christopher Shea earning “top doctor” accolades by Chicago magazine and Castle Connolly.

In FY22 the Section welcomed, Amy Xu, MD, assistant professor of medicine and two clinical associates, Emily Lund, MD and Caroline Robinson, MD. Dr. Xu is a general dermatologist with specific clinical interest in psoriasis and expertise in skin bioremediation with clinical trials and research as well as supportive oncodermatology. Dr. Xu also performs general dermatologic and laser procedures and is working to establish a new biotesting diseases clinical program which will allow for interdisciplinary collaboration with colleagues in gastroenterology, ophthalmology and rheumatology who also care for these patients. Dr. Lund, having completed a sub-specialty fellowship in pediatric dermatology after her dermatology residency focuses her work on providing care for general adult and pediatric dermatology at our off-site practices in South Loop and River East. Dr. Robinson practices general dermatology at the Section’s offsite practice in Orland Park.

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 push the boundaries of clinical practice with new initiatives and a renewed focus on advanced patient care. The Section now has established specialty clinics focusing on auto-immune skin diseases (AISD), high risk non-melanoma skin cancer, pigmented lesions/melanoma services, pediatric dermatology, hair diseases, supportive oncdermatology and cosmetic dermatology and now biotesting diseases with the addition of Dr. Yu. Expansion of clinical operations to off-site practices in Orland Park, Tinley Park, Edwards, the South Loop and River East have broadened Dermatology’s reach in the Chicagoland area. In FY22, the Section was able to maintain clinical growth as the COVID-19 pandemic downshifted by continuing to activate a national reputation as a leader in training the next generation of dermatologists and dermatopathologists. The Dermatology residency program, under the direction of Adena Rosenblatt, MD, PhD remains a sought-after dermatology training program, having completed a successful match cycle this year with 662 highly competitive applicants in 2022, seeking one of four slots in 2023. The Dermatopathology Fellowship Program, led by Christopher Shea, MD also continues to remain strong by providing an excellent training experience to an elite group of dermatologists and dermatopathologists with 16 applicants for two slots entering in July 2023. The Section’s Diversity Committee, under the direction of Victoria Barbosa, MD is working closely with program directors to integrate the new OSU plan into recruitment efforts and educational curriculum for the Section.

The Department of Medicine 2022 Overall Excellence in Clinical Service (patient visits) Award

- Adina Rosenblatt, MD, PhD - Selected as Faculty Director for Good Skin Knowledge Program as part of South Side Scholars Program (S4) Educational and Mentorship Program
- Arlene Ruiz de Luzuriaga, MD, MPH, MBA - Virtual Magic Wand Program - Scholar (2021)
- Christopher B. Shea, MD - Invited speaker “Melanocytic pathology” 11th Annual Meeting, Japan Soc. Pathol, Kobe, Japan; “Clinicopathologic self-assessment” At AAD Dermatopathology Annual Meeting, Boston, MA; “Stump the chumps” Intro. Soc. Dermatopathol Annual Meeting, Boston, MA
- Sarah Stain, MD - Invited speaker Pediatrics Grand Rounds Speaker, “Skin of color in pediatrics.” Advocate Children’s Hospital, Chicago, IL (9/2021)
In January, 2022 Thomas Spiegel, MD, associate professor of medicine, assumed the role of Interim Chief for the Section of Emergency Medicine (EM), replacing Christine Babcock, MD as she transitioned to the role of Associate Dean of Medical Education and DIO for the Office of Graduate Medical Education and the Pritzker School of Medicine. Dr. Spiegel joined the Department of Medicine faculty in 2014 to serve as medical director of the Emergency Department (ED). In October 2021, he was appointed as Associate Section Chief for Clinical Operations where he has been responsible for the overall clinical performance and operations of the ED, including patient flow, medical care, and operational efficiency. Under Dr. Spiegel’s leadership, and continuing service as the medical director of the Adult ED, he implemented several new programs designed to ameliorate the effects of excessive boarding of admitted patients due to hospital inpatient capacity issues. One such program was to reconfigure “area 1.5” to be used as a low acuity treatment area for patients who are not likely to be admitted. This allowed the emergency physicians to continue treating a subset of patients, even when faced with significant boarding of admitted patients. Along with several hospital-wide initiatives, the ED began to see boarding hours decrease in February and subsequent months, which in turn, improved throughput, revenues and wRVU generation capabilities. In addition, the section’s proposal to reduce boarding for admitted patients was approved by the city in December 2021 to help address COVID-19 presence in the ED as well as an increase in patients suffering from acute traumatic injuries. As ED presentations have remained at relatively high daily numbers (average ~210 per day), the providers have worked tirelessly to provide efficient and appropriate care and oversight of the patients and have done their best to reduce boarding and “left without being seen” (LWBS) numbers, while the hospital continues to experience capacity challenges.

In FY22, EM welcomed three faculty to the Section of Medicine: Christopher Harris, MD, Isabel Malone, MD, and Ameera Haamid, MD. Dr. Harris serves as the assistant director of EM Ultrasound Fellowship Program, while Dr. Malone is the residency program director for the EM Residency Program. Her scholarly interests focus on healthcare disparities, particularly as they pertain to medical education. Dr. Haamid’s scholarly work focuses on finding innovative ways to care for the most vulnerable members of the community, including telemedicine for prehospital emergencies, education and training community partners in social determinants of health, and healthcare disparities in Emergency Medicine.

In FY22, Kimberley Stanford, MD has continued her work in social medicine focused on identifying patients who present in the ED and are found to be positive for HIV and/or syphilis, often notifying them of their diagnosis for the first time and starting them on treatment, therapies and community support to improve their health outcomes. This program is supported by a multi-disciplinary team consisting of physicians, nurses, pharmacists, social workers, and managers, and community health workers. Led by David Beiser, MD, the Emergency Clinical Trials Unit (ETU) continues to grow and facilitate a number of emergency clinical trials at the institution by bringing together expertise and infrastructure that enables the highest quality emergency clinical research related to cardiac arrest, brain injury, trauma, cardiopulmonary resuscitation, opioid addiction and COVID-19. In FY22, the ETU completed multiple clinical trials, funded both by the NIH and the pharmaceutical and device industry, and has been able to hire a significant clinical research staff to support these efforts. EMS Medical Director, Katia Tataris, MD, has continued to expand the role EMS plays for the City of Chicago, having received several contracts through the CDPH to work with City stakeholders (CFD and Paramedics) on novel ways to approach prehospital emergencies, including telemedicine for medical health emergencies, serving as a clinical advisor to the City’s policy makers for prehospital medicine, and continuing with her PACT program to improve airway integrity in the prehospital setting. Tareesha Hogan, MD continues to work on her project to maximize adoption of nerve blocks in the emergency room for patients who present with neuropathic pain to decrease opioid use and decrease risk of death. This work is funded by the Mayday Foundation.

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 have also continued their investigative efforts focused on the neurocognitive impairments 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 James Ahn, MD, continues to attract outstanding trainees and continues its strong tradition of recruiting underrepresented minorities in medicine with 33% of the incoming class being comprised of URMs. This past year, ten of the sixteen graduates pursued academic fellowships (62%), which is significantly above the average for EM training programs. This year, the Section received approval to increase the residency class to 18 residents per year, from 16 in prior years. The residency program also added four associate program directors: Nanduri Prabhakar, MD and Adriana Olston, MD, Paul Kukulski, MD and Isabel Malone, MD. At the post-graduate level, the Section of Emergency Medicine now offers two clinical scholar/fellowship training programs including advanced training in Medical Education and Medical Administration. The Section also began two GME fellowship programs in 2022 – EM Ultrasonography and Global Emergency Medicine Fellowship. These two GME programs join our already-existing Emergency Medical Services fellowship program. The Global EM Fellowship will recruit for its inaugural fellow for the 2022-23 academic year. The Medical Student Clerkship Program, led by Keme Carter, MD, and newly-added Alejandro Palma, 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 DEI efforts, Abdullah Pratt, MD, has built community partnerships 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. The foundation of his work focuses on engaging community leaders and community outreach opportunities to underrepresented minority students. 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. With the addition to the faculty of Drs. Harris, Malone and Haamid, the faculty has a significant and core cohort of URM faculty members to assist in this important work and provide a large body of academic work on the subject.
Dr. Rajesh Jain, MD, as-year under the leadership of Raghu Mirmira, MD, PhD, and Graeme Bell, PhD. T32 focused on integrated clinical and basic endocrinology research was renewed for the 47th year under the leadership of Raghur Mirmira, MD, PhD, and Graeme Bell, PhD.

In FY22, the Section welcomed Rajesh Jain, MD, as an assistant professor of medicine to the faculty. Dr. Jain is an expert on metabolic bone disease and osteoporosis. In particular, he focuses on racial and ethnic differences in metabolic bone disease, such as examining differences in the ability of osteoporosis screening tools and fracture risk factors in Black and Hispanic patients. Dr. Jain also serves as the director of the Endocrinology Fellowship Program.

Within the clinical programs, Caitlin Thomas, MD, developed the EquiT1D initiative to improve the care of low-resource minority patients with Type 1 diabetes. Her interventions used continuous glucose monitors and patient navigators to reduce admissions for diabetic ketoacidosis and her findings will significantly improve the care of patients with Type 1 diabetes. Her interventions used continuous glucose monitors and patient navigators to reduce admissions for diabetic ketoacidosis and her findings will significantly improve the care of patients with Type 1 diabetes.

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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. This program is under the directorship of Ronald Cohen, MD, and includes a wide range of faculty members who are leaders in their respective fields. 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. This program is under the directorship of Ronald Cohen, MD, and includes a wide range of faculty members who are leaders in their respective fields.

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In FY22, two new faculty were welcomed to the Section, Melly Rinella, MD, professor of medicine, is a transplant hepatologist and expert in the area of non-alcoholic fatty liver disease (NAFLD)/nonalcoholic steatohepatitis (NASH) both before and after liver transplantation. She is currently directing the Metabolic and Fatty Liver Program. Dennis Chen, MD, assistant professor of medicine, specializes in interventional endoscopy and is active in researching endoscopic innovations and devices to improve patient care with the Center for Endoscopic Research and Therapeutics (CERT).

In FY22, the Section continued to grow its clinical programs both on campus and at satellite locations. Several GI providers began performing endoscopy at the UCM River East location and will continue to grow procedure volumes at other satellite locations. The Liver Transplant Program (Michael Charlin, MD - Co-Director of Transplant, Helen Tu, MD - Medical Director of Liver Transplant) continued to expand by adding new clinic sites in Peoria and Flossmoor. With the addition of Dr. Rinella to the faculty, the Center for Liver Diseases and Transplant Institute continues to expand growth of the non-alcoholic fatty liver disease (NAFLD) clinic and expanded clinical and translational research in this area. Under the leadership of Uzma Siddiqui, MD the CERT team has been rebuilt with the recruitment of Dr. Chen. Furthermore, a new state of the art interventional GI room was built to allow the CERT Team to continue to perform the most complex interventional cases.

The Inflammatory Bowel Disease Center (Russell Cohen, MD - Director) continues its expansion to multiple offsite locations. The program now includes a gastro-psychologist (Alyse Bedell, PhD), focused dietitian services (Courtney Schuchmann, RD) and, a gastro-psychologist (Alyse Bedell, PhD), focused dietitian services (Courtney Schuchmann, RD), and a gastro-psychologist (Alyse Bedell, PhD), focused dietitian services (Courtney Schuchmann, RD), and genetic consultations at the satellite locations with an additional faculty support (Nina Gupta, MD).

In FY22, the Section research portfolio totaled over $11.7M and included a new NIH R01 to Valerie Abadie, PhD to study B cell - T cell crosstalk in celiac disease. Dr. Kim was awarded a multi-million dollar NIH G20 to support the upgrades for the Center for Liver Diseases and Transplant Institute with the recruitment of Dr. Chen. Further, a new state of the art interventional GI room was built to allow the CERT Team to continue to perform the most complex interventional cases.

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GIM faculty continue to lead education efforts in our Internal Medicine and Med-Peds residencies and in the Pritzker School of Medicine (PSOM), teaching over 130 residents in our clinic and serving in a variety of leadership roles. Vinnet Anora, MD, MAPP began serving as Dean of the Pritzker School of Medicine and launched an ambitious review and update of the entire four-year medical school curriculum. With receipt of a T32 training grant, Dr. Latteenapong has robustly developed the Primary Care Investigators Training in Chronic Disease & Health Disparities (PITCH) Fellowship for primary care research training, with partners from Genomics and ID (FYV) focus.

**ACCOMPLISHMENTS AND HIGHLIGHTS:**

- **Jason Alexander, MD** - 2021 Clinical Teacher of the Year Award; 2021 Scholar, Center for Healthcare Delivery Science and Innovation
- **Arshiya Baig, MD, MPH** - 2021 Midwest Society of General Internal Medicine President
- **Martha Chin, MD, MPH** - Named the Richard Pavilion Family Distinguished Service Professor; Appointed to the National Academy of Medicine Council; Appointed to the NIDDK Health Disparities and Health Equity Working Group of Council
- **Adam Citu, MD** - 2021 Clinical Teacher of the Year Award
- **Kamala Cotts, MD** - Academy of Distinguished Medical Educators; AOA Faculty Honoree, Third Year Internal Medicine Resident Teaching Award
- **Raj Krishnamurthy, MD** - Chair’s 2021 Notable Executive of Color in Healthcare
- **Neda Latteenapong, MD, MSCP** - John O. Arnold, MD Mentor Award, Pritzker School of Medicine
- **Wei Wei Lee, MD** - Associate Editor, Journal of General Internal Medicine, Deputy Editor for JGIM 2021 Medical Education Issue; 2021 SGIM National Scholarship in Med Ed Award
- **Oriane Miller, MD** - 2021 U Chicago Diversity Leadership Award; Awarded Vice Chair for Diversity, Equity and Inclusion, and ITM Director for Health Equity
- **Julie Oyler, MD** - 2021 NH Prize for Enhancing Faculty Gender Diversity in Biomedical and Behavioral Sciences; 2021 AAMC Certificate of Appreciation for Efforts to Promote Gender Equality in Medicine and Support Career Advancement of Women in Medicine
- **Monica Peas, MD, MPH** - 2021 BSO Distinguished Leader in Diversity and Inclusion; named the Ellen H. Block Professor of Health Justice, and as Associate Vice Chair for Research Faculty Development
- **Amber Pincavage, MD** - Elected President, Clerkship Directors in Internal Medicine; 2021 Clinical Teacher of the Year Award
- **Misha Saunders, MD, MPH** - SGIM Program Committee Co-Chair for the 2023 meeting, 2022 Distinguished Professor of Health Equity Best Poster Award for “Association Between Maternal Diabetes, Race and Neighborhood Socioeconomic Status“; Chair, SGIM Ethics Committee
- **Mark Siegel, MD** - Inaugural SGIM-22 Excellence in Medical Ethics Award
- **Sachin Shah, MD** - Appointed as Chief Medical Information Officer for Digital Health Transformation
- **Scott Steeves, MD** - Appointed as Curriculum Editor for NEJM Harry
- **Elizabeth Tung, MD, MS** - 2021 Midwest SGIM Advancement of Youth in Internal Medicine Regional Meeting; Best of ARM Scientific Abstract (Theme: Structural Racism, Disparities, and Equity in Health); Academy Health Annual Research Meeting, Washington D.C., 2022
- **Anna Volerman Beaser, MD** - 2022 BSD Distinguished Mentor Award; Appointed to the NIDDK Health Disparities and Health Equity Working Group of Council; Appointed to the National Academy of Medicine
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- **Elizabeth Tung, MD, MS** - 2021 Midwest SGIM Advancement of Youth in Internal Medicine Regional Meeting; Best of ARM Scientific Abstract (Theme: Structural Racism, Disparities, and Equity in Health); Academy Health Annual Research Meeting, Washington D.C., 2022
- **Anna Volerman Beaser, MD** - 2022 BSD Distinguished Mentor Award; Appointed to the NIDDK Health Disparities and Health Equity Working Group of Council; Appointed to the National Academy of Medicine
- **Nanita Arora, MD, MPH** - 2022 U Chicago Diversity Leadership Award;2021 Midwest Society of General Internal Medicine President
- **Adam Citu, MD** - 2021 Clinical Teacher of the Year Award
- **Kamala Cotts, MD** - Academy of Distinguished Medical Educators; AOA Faculty Honoree, Third Year Internal Medicine Resident Teaching Award
- **Raj Krishnamurthy, MD** - Chair’s 2021 Notable Executive of Color in Healthcare
- **Neda Latteenapong, MD, MSCP** - John O. Arnold, MD Mentor Award, Pritzker School of Medicine
- **Wei Wei Lee, MD** - Associate Editor, Journal of General Internal Medicine, Deputy Editor for JGIM 2021 Medical Education Issue; 2021 SGIM National Scholarship in Med Ed Award
- **Mark Siegel, MD** - Inaugural SGIM-22 Excellence in Medical Ethics Award
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Under the leadership of Yoav Gilad, PhD, the Section of Genetic Medicine continued to demonstrate research success in the past year not only through extramural funding but through the extensive collaborations of the faculty throughout the Department, BSD and University. For example, Anindita Basu, PhD is working with Mary Hammes, MD (Nephrology) to develop a new medical device to study thrombosis in dialysis patients, and Mengjie Chen, PhD is collaborating with Chuan He, PhD (Department of Chemistry) to develop methods for analyzing MeRIP-seq data, which detects m6A-methylated RNA. There is growing interest in m6A modification, as it affects many aspects of RNA metabolism and has been linked to cancer and cardiovascular disease.

In June 2022 Ada Weinstock, PhD, assistant professor of medicine, joined the faculty. Her research aims to understand how weight loss influences immunity to heal obesity-related inflammation and leverage these findings to treat obesity-related diseases without the need for weight loss.

In FY22 the Section’s research portfolio totaled nearly $6.0M with the addition of many new awards. Luis Barreiro, PhD was successfully awarded over $1.5M in funding from the Chan Zuckerberg Foundation to build an immune cell atlas of indigenous South American populations. Along with 3 co-principal investigators, this project will generate comprehensive single-cell resolution maps of gene expression and epigenetic variation in immune cells from Indigenous South American populations, before and after immune activation to help inform future research and eventually treatment of diseases affecting Indigenous populations. Mengjie Chen, PhD was the recipient of an NIH R01 to develop new computational tools for spatial transcriptomics data. Hae Kyung Im, PhD was awarded a federal contract from the National Institute of Aging to establish the genetic architecture of genome-scale metabolic networks. Sebastian Pott, PhD and Joshua Weinstein, PhD were each awarded NIH R35’s to investigate the mechanisms and determinants of dynamic gene regulation during development and cellular differentiation and to conduct volumetric spatial-genetic imaging with DNA microscopy respectively. Andrew Dahl, PhD garnered a NIH K25 to conduct research characterizing individual- and subtype-specific risk factors and treatments in asthma.
Dr. Stacie Levine

SECTION OF GERIATRICS & PALLIATIVE MEDICINE

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 FY22 include the expansion of UCM/Ingalls Hospice and Palliative Medicine. Under the direction of Mohammed Ahmed-Khan, MD (Hospice Medical Director) and Syed Quadri, MD, an inpatient palliative medicine consultation program started at Ingalls in February 2022 that provides a vital service to the Southside community to support and improve the care of patients living with advanced illnesses. Within the clinical programs, US News and World Report (July 2022) ranked Geriatrics a #4 in their annual best hospitals by specialty rankings, marking the first time in a decade to rank in top 50. Shellie Williams, MD was the recipient of the 2022 Hastings Center Cunniff-Dixon Foundation Inaugural Dr. Richard Payne Leadership Award, joining a very special community of 55 physicians over the last 12 years who have been chosen as leaders in the field of palliative care.

In FY22, the Section welcomed Andrea “Justina” Landi, MD, Assistant Professor of Medicine, to the faculty. Her academic interests are in the assessment, and management of opioid use disorder in older adults in ambulatory and post-acute care settings. Dr. Landi also provides comprehensive geriatric assessments within the nephrology transplant clinic.

(T)he inpatient and ambulatory Oncology Palliative Medicine Program continues to grow steadily under the direction of Monica Malec, MD. In FY22, Dr. Malec worked with the Healthcare Delivery Science and Innovation Center (to advance institutional priorities in advance care planning with multiple initiatives. This included improving access to palliative medicine through EMR-generated consult triggers, working with analytics to develop and implement a machine-predicted 6 month mortality risk model with BPAs to prompt clinicians to engage their at-risk patients in advance care planning discussions and addressing patient-related barriers to advance care planning by including information in My Chart. In efforts to move University of Chicago Medicine closer to the Institute for Healthcare Improvement Age-Friendly Health System designation, Dr. Glaser is co-leading efforts with nursing leadership to embed delirium screening on several inpatient units.

Within the outpatient geriatrics programs, the nationally recognized Successful Aging and Frailty Evaluation (SAFE) Clinic (Katherine Thompson, MD and Megan Huisingh-Schetz, MD, MPH-Co-Director) 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. Geriatrics faculty Drs. Megan Huisingh-Schetz, Lauren Glaseon, Katherine Thompson, and Dr. Landi established a geriatric surgery and frailty-working group alongside cardiothoracic surgery, anesthesia, and other perioperative groups. Products from this collaborative include an EPIC base frailty flowheet tool and postoperative frailty order sets. Tia Kostas, MD continues to lead the Pharmacy-led Repartent Management Service at South Shore Senior Center.

Research efforts by GPM faculty and staff are supported by a variety of external sources and include investigations that range from important geriatric syndromes to ethics and end of life care. New grants in FY22 include supplemental funding to Dr. Thompson from HRSA to address community engagement and medical education specific to the COVID-19 Response. Dr. Huisingh-Schetz received an NIH R01 under NIH award program project grant led by Elbert Huang, MD studying the use of voice-activated technology to improve mobility and reduce health Disparities.

Within the Section’s educational programs, the SHARE Network, that is funded by HRSA Geriatric Workforce Enhancement grant and led Dr. Thompson, continues to provide education at community-based organizations, primary care clinics, and nursing homes. Dr. Kostas was named as the Director of Interprofessional Education at the Pritzker School of Medicine (PSOM) where she will lead efforts to embed interprofessional education experiences for medical students throughout all 4 years of training and that encompass exposure to nursing, pharmacy, social work, nutrition, and therapy services. The Geriatrics and Palliative Medicine Fellowship Programs continue to attract high-caliber applicants.

In DEI and outreach efforts, Dr. Williams led many initiatives within the Section and the Southside community including the creation of Dementia Resource Champions, a train-the-trainer dementia pilot to enhance faith community leaders’ dementia awareness and resource access. Dr. Williams has also created an interactive dementia resource education toolkit, Center our Values, to empower Black caregivers of persons living with dementia.

ACCOMPLISHMENTS AND HIGHLIGHTS:

- Megan Huisingh-Schetz, MD - Invited to serve on the American Geriatrics Society Research Methods Subcommittee
- Tia Kostas, MD - Recipient of the 2022 University of Chicago Biological Sciences Division Distinguished Leader in Program Innovation, Junior Faculty category
- Stacie Levine, MD - Elected to the Board of Directors for the American Academy of Hospice and Palliative Medicine, recipient of the 2022 University of Chicago Biological Sciences Division, Distinguished Educator and Mentor, Senior Faculty category
- Katherine Thompson, MD - Served as the 2022 Dean Faulkner Visiting Professor, Boston University School of Medicine
- Shellie Williams - Named Ombudsman for PSOM.
- Stacie Levine, MD, Monica Malec, MD and James Wallace, MD - Named as Top Doctors by Chicago Magazine

ASSOCIATE PROFESSORS:
- Megan Huisingh-Schetz, MD
- Kenneth Polonsky, MD
- Monica Malec, MD
- Katherine Thompson, MD
- Shellie Williams, MD
- Brad Lane

PROFESSORS:
- Dr. Stacie Levine, MD (Chief)
- Dr. Landi

SECTION ADMINISTRATOR:
- Elizabeth Zavala, MD
Under the leadership of Sonali Smith, MD, the Section of Hematology/Oncology continues to be recognized for outstanding patient care, innovative treatments, leading edge research and educational programs. US News and World Report recently ranked the cancer program as #14 on its 2022-23 Best Hospitals (July 2022) list. Other notable recognition in FY22 include: Everett Vokes, MD served as the 58th president of the American Society for Clinical Oncology, Funmi Olopade, MD was inducted into the National Academy of Sciences and Eileen Dolan, PhD was named as the Deputy Director for the University of Chicago Comprehensive Cancer Center.

In FY22 the Section welcomed five new junior faculty at the assistant professor level: Nan Chen, MD focuses her work on the treatment of patients with all forms of breast cancer and develops clinical trials focused on individualized treatment plans. Brandon Faubert, PhD investigates how metabolic adaptations support cancer cell growth and proliferation, including the role of altered metabolism during metastasis. Mutam Naweis, MD is interested in improving patient-reported outcomes and survival of older adults undergoing cellular therapy. Anand Patel, MD is an expert in the treatment of myeloproliferative diseases, myelodysplastic syndromes, and leukemia and is developing clinical trials of novel therapies to improve the standard of care for patients with myeloid malignancies. Daniel Olson, MD focuses his research on optimizing immunotherapy and developing cellular therapy for solid tumors.

Within the clinical programs, the Section of Hematology/Oncology has continued strong presence, innovative patient care, and expansion to network sites. The Section was once again recognized by UW-NN as one of the top cancer programs in the nation and over two dozen faculty were recognized as “Top Cancer Doctors” by Chicago magazine (January, 2022). Noteworthy: In FY22 was the launch of the High-Risk Lymphoma Clinic (Justin Kline, MD & Peter Riedell, MD - Co-leaders) and the launch of the Complex Acute Leukemia and Myeloid Malignancies Clinic (CAMLMM) (Olabode Y. Odenike, MD & Anand Patel, MD - Co-leaders). The Neuroendocrine Tumor Program (co-led by Andy Liao, MD and surgeon Xavier Kutagun, MD) now has the top market share in the Chicagoland area and is developing a dedicated Therasprints Program, the first of its kind in the region. Under the direction of Michael Bischof, MD, the Cellular Therapy Program continues to have a major impact in developing cellular therapies in lymphoma and myeloma, and their work led to several FDA approvals. Furthermore, it received one of the highest scores for safety and is rated the highest in the city.

The Section maintains a very strong and successful program in basic, translational and clinical research. In FY22 section faculty were awarded approximately $30M in total grant funding coupled with an additional $33M in clinical trial earnings. The Cancer Metabolism Research Center, led by Jing Chen, PhD, received two NH $101M grants in FY22. Lucy Godfrey, MD, PhD was the recipient of a new U01 to study the role of inflammation in driving leukemogenesis in germline predisposition syndromes and a grant from Edward P. Evans Foundation to investigate genetics predisposition to MDS. Alex Pearson, MD, PhD garnered NH R56 support to utilize deep learning for oral premalignancy evaluation. Akash Patnaik, MD was the recipient of a grant from the V Foundation and an R01 to investigate therapeutic potential for STING agonists to overcome resistance to immuno-checkpoint blockade in PTEN-deficient prostate cancer. Maria Garassino, MD and Dr. Pearson were awarded global grant integrating all aspects of immunotherapy and create avatars of patients to run virtual clinical trials with immunotherapy. An Rosenberg, MD and Dr. Faubert each earned an award from the Cancer Research Foundation in support of their work in head and neck cancer and metabolic adaptations in lung cancer, respectively. Michael Drazner, MD was also awarded a grant from the Edward P. Evans Foundation focused on delineating leukemogenic mechanisms in hereditary hematopoietic malignancies. Drs. Olopade, Dezheng Huo and Tara Hennon derson received a $720,000 supplement award to study the impact of SARS-CoV-2 infection and COVID-19 on breast cancer during and after the COVID-19 outbreak. Evgueni Tzankov, PhD was awarded funds from AbbVie to study multi-omics predictors of combination systemic therapy response and resistance in head and neck squamous cell carcinoma, and Justin Kline, MD received funding from Cancer Research Institute/Flyvbjerg Award focused on immunotherapeutic targeting of macrophages in diffuse large B cell lymphoma.

Under the direction of Program Director, Kenneth Cohen, MD, and Associate Program Director, Ardanany Shirkh, the Section continues to run a highly successful fellowship program. In educational programs, Dr. Dziallas received funding from the Komlin Foundation to support a graduate training program in breast cancer disparities. In DEI initiatives Dr. Dziallas created 2 new programs: SHE in Oncology (promote science for high school girls, mainly underserved areas and Diversity In Oncology (for undergraduates). Now in FY22, Dr. Olopade received a grant from the Wasserstein Foundation to retain clinical scientists through disruptions; and the development of a junior faculty mentoring program led by Dr. Cha
In FY22, Marius Chiuvu, MD was appointed as Associate Section Chief where he continues to play a leading role in the Section’s continued clinical growth and optimization of clinical operation. As Director of Clinical Operations for HM, Dr. Chiuvu has overserved and managed the growth of the Section’s clinical footprint, with hospital medicine providers caring for approximately one third of hospitalizations. Khanh Nguyen, MD is interested in assisting in implementing new clinical programs, developing emerging clinical leaders, and quantity of engagement with UCM and DOM leaders. He has also played a pivotal role in the hiring and mentoring of new clinical providers and faculty. In his new role, Dr. Chiuvu is assisting in implementing new clinical programs, developing emerging clinical leaders, and mentoring and supporting hospitalists. He continues to lead efforts around recruitment and retention to respond to evolving clinical needs while also assessing and advocating for needs of clinical providers.

The Section’s research portfolio consisted of nearly $4.2 million in extramural funding in FY22. New grants received include a new NIH R01 awarded to Robert Gibbons, PhD focused on algorithmic diagnostics for prescription of treatments (ADEPT) and the renewal of Dr. Meltzer’s TS2 MD, PhD Program in Medicine, the Social Sciences and Alzheimer’s Disease and Related Dementias and the AmeliorCare CAP Program. Dr. Martinez received a CTSK K12 Scholar award from the Institute of Translational Medicine K12 mechanism.

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. The section established a project opportunity and in collaboration with UCM Executive Vice President of Clinical Effectiveness, Dr. Stephen Weber, the section granted seven providers with funds to pursue their pilot proposals.

Rebecca Wilson, MD is leading a joint medical education/quality initiative project on reducing lab error on stable hospitalized patients and has been awarded a trainee grant from the Society of Hospital Medicine for a longitudinal research project. Brian Callender, MD received a Bucksmoor Institute grant to support his spring quarter undergraduate course entitled "(Re)Framing Graphic Medicine: Comics and the History of Medicine." Ethan Molitch-Hou, MD created the HM Sub-Intern. During its initial year, five students rotated through and participated nearly daily in FY22 from five to nine Sub-Interns, which was the most of any internal medicine Sub-Intern rotation. John Murray, MD has worked on establishing a co-management service with our orthopedic colleagues for joint replacement patients.

**ACCOMPLISHMENTS AND HIGHLIGHTS:**

- Robert Gibbons, MD- Appointed to the National Academies of Sciences, Engineering, and Medicine ad hoc committee focused on creating a more equitable, transparent, and efficient system for deceased donor organs.
- Micah Prochaska, MD- Recipient of the Society of Hospital Medicine Junior Investigator Award
- Chang Kai-Kao, MD- Named as Chief Clinical Informatics Innovation Officer, University of Chicago Medicine
- Greg Buhnik, MD- Promoted to Senior Editor of the Journal of Hospital Medicine and re-appointed as a Journal of Hospital Medicine Editorial Fellowship Mentor
- Elizabeth Murphy, MD- Appointed as co-chair of the Society of General Internal Medicine Hospitaled Commission
- Matthew Cerasale, MD- Presented “Improving Medication Safety at Transitions to Skilled Nursing Facilities” at the Institute for Healthcare Improvement Forum
- Caroline Skolnik, MD- Presented a talk titled “Change is Now: Enacting our Ethical Obligation to Integrate Sustainability in Medical Care” at the Northwestern Bioethics Conference
In FY22 IDGH welcomed Daniel Friedman, MD to the faculty as an assistant professor of medicine. Dr. Friedman’s efforts are focused on the management of infectious diseases in immunocompromised hosts, particularly those following solid organ transplant, stem cell transplant, and those with cancer. He is also interested in better identifying risk factors for fungal and mycobacterial infections after transplant and how to personalize preventative strategies. Dr. Friedman is currently serving as the director of the immuno-oncology team.

In FY22 IDGH continued to provide outstanding consultative services 24/7 to ensure optimal and timely management of serious infectious diseases and services General Infectious Diseases, Immunocompromised Host, and 2 Advanced Practice (consult services). Jana Saltzman, PA and Penny Vater, NP continue to provide excellent inpatient and outpatient care as part of the advanced practice team and these accomplishments contribute significantly to the medical center’s perennial A rating from the Leapfrog Group.

The Section has continued to strategize and shape the UCM response to the monkeypox public health emergency in addition to continued work on the COVID-19 pandemic. Dr. Landon and Stephen Weber, MD continue their UCM roles in leading pandemic response efforts in collaboration with the CDPH, IDPH, and the State of Illinois as policy continues to evolve. Dr. Landon along with the Infection Control team, continue to work on evolving local screening, diagnosis and contact tracing protocols to ensure the safety of our patient population and healthcare teams. Dr. Pisano and the ASP continue to work with members of the multi-disciplinary COVID-19 Management Workgroup to update treatment pathways and protocols as novel therapies become available. Literature evolves and new variants emerge. The ASP continues work to implement MPX vaccine and therapy protocols while guidance evolves. Anu Hazra, MD, medical director of the UCM Sexual Wellness Clinic, and Michelle Moore, NP have helped to guide the UCM approach informed by experience in diagnosing and treating early community cases at Howard Brown Health (HHB). HHB-supported initiatives, including Dr. Mai Pho’s efforts to expand COVID-19 testing and vaccination through social network diffusion in vulnerable populations, including minority and criminal justice-evolved populations.

The Chicago Center for HIV Elimination, led by John Schneider, MD, provides care for people living with HIV, as well as screening, prevention, education and treatment for pediatric HIV patients who are transitioning to adult care and post-partum care for HIV-infected women and their exposed children. As co-medical directors of the HHB, Drs. Schneider and Hazra, together with Jade Pagnas-Bath, MD continue to oversee the largest provider of HIV, PrEP and gender affirming hormone therapy on Chicago’s South Side. With CDPH supported funding since 2011, Maria McNulty, MD leads efforts to expand 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. Jessica Ridgway, MD manages care for women in medical informatics and the use of large electronic medical record databases to understand infectious diseases epidemiology and to guide infection prevention, specifically in improving HIV Care and prevention. Dr. Pho’s HIV testing and linkage to care initiatives continued to expand in addition to her work in rural communities to implement HIV, STI and substance abuse interventions. Many of these Section members are highly active and hold leadership roles within the Third Coast Center for AIDS Research, a multi-institutional Chicago collaborative that is part of the NIH Center for AIDS Research (CFAR).

In FY22, the Section’s research portfolio continued to expand totaling over $1.5M. New awards include Dr. Schneider’s NIH U01 Award evaluating COVID-19 testing and vaccination social network diffusion for diverse criminal legal communities. Dr. Ridgway was awarded a NIH R01 to support her work on the implementation of evidence-based interventions to improve PrEP care continuum outcomes among women in community health clinics in the southern United States and Anna Hatton, PhD was awarded a NIH R21 for her work on computational approaches to understand the impact of social determinants of health on HIV care continuums. In FY22, the ID Clinical Trials group continued working with the COVID-19 Prevention Network (CoVPN) to conduct the Moderna mRNA 2173 vaccine study and the ACTIV-2 adaptive platform treatment trial for outpatient with COVID-19. (Pisano, FG) among other trials that focus on offering investigative agents to treat infections in the immunocompromised host population.

In the educational arena, Dr. Hazra assumed the role of Infectious Diseases Fellowship Program Director and IDGH faculty continued to play key roles in outreach education on HIV, Hepatitis C, COVID-19 and now monkey pox. Drs. Hazra and Ramesh Sheer, MD continued educational outreach work through Project ECHO and the Midwest AIDS Training and Education Center (MATEC) to educate provider networks outside of the UCM community on COVID-19 and monkey pox, in addition to the HIV mini-residencies that have been a longstanding hallmark of the Section. The Wuhan University Medical Education Reform (WUMER) Project (Renslow Sherrer, MD, Director and Associate Director, Jon Liu, MD), now in its twelfth year, continues to lead faculty development, undergraduate curriculum improvement, and residency training 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 (IPHE) has trained 20 graduate medical education directors in China from Wuhan University, Sun Yat Sen, and the Peking Union Medical College Hospital annually. Additionally, Dr. Hazra was awarded the 2022 Provost’s Global Faculty Award to continue work in TrainCare MedEd, a program in India that aims to create a set of innovative virtual healthcare programs and a 2022 France and Chicago Collaborating in the Sciences (FACCTS) Award evaluating PrEP use in French primary care clinics. Dr. Schneider continues his work in Greece evaluating the use of social networks to drive PrEP uptake. Dr. Ridgway was awarded the 2022 Provost’s Global Faculty Award to continue work in TrainCare MedEd, a program in India that aims to create a set of innovative virtual healthcare programs and a 2022 France and Chicago Collaborating in the Sciences (FACCTS) Award evaluating PrEP use in French primary care clinics. Dr. Schneider continues his work in Greece evaluating the use of social networks to drive PrEP uptake. Dr. Ridgway was awarded the 2022 Provost’s Global Faculty Award to continue work in TrainCare MedEd, a program in India that aims to create a set of innovative virtual healthcare programs and a 2022 France and Chicago Collaborating in the Sciences (FACCTS) Award evaluating PrEP use in French primary care clinics. Dr. Schneider continues his work in Greece evaluating the use of social networks to drive PrEP uptake.

On July 1, 2022, Jennifer Pisano, MD, Associate Professor of Medicine, assumed leadership of Dr. Pisano, the IDSA Center of Excellence of the Section of Infectious Disease & Global Health (IDGH) following a year as the interim chief. Dr. Pisano continues in her leadership role as medical director of the UCM Antimicrobial Stewardship Program (ASP) and continues her clinical focus in infections of immunocompromised hosts.

On July 1, 2022, Jennifer Pisano, MD, Associate Professor of Medicine, assumed leadership of the UCM Antimicrobial Stewardship Program (ASP) and continues her clinical focus in infections of immunocompromised hosts.
The Section of Nephrology has a long and distinguished history relating to its innovative programs for the treatment of kidney disorders. 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 exceptional clinical practice includes large programs in hereditary kidney diseases, nephrolithiasis, pharmacogenetics, end-stage kidney disease (ESKD), home dialysis, acute kidney injury, kidney transplantation, onco-nephrology, vascular access, renal ultrasonography, glomerular disorders, health outcomes research, and the microbiome. 

In FY22, the Section of Nephrology provided outstanding inpatient care to patients with cancer, heart and liver problems. Nephrology continues to have excellent outcomes with 30-day survival and discharge-to-home rates being far superior to the national average. Adult kidney transplants through June 2022 increased 8% compared to the twelve month period through June 2021, from 142 to 153 for living related and cadaveric combined. In addition, an impressive 123 kidney transplant biopsies were performed. Yousaf Kyo, MD supports the care of the nation’s largest combined kidney/heart transplant recipients as well as other combined solid organ transplants such as kidney/heart/liver and kidney/liver. Early detection of transplant rejection is being supported by the addition of abscess testing. In FY22, the ICU-center dialysis units continue to care for and manage over 500 dialysis patients. This has been exceptional in the setting of repeated COVID infection waves and abrupt changes in staffing at the Trauma Center. Dr. Tishena Wilson and 2022 Nephrology Fellowship Program mentee Aminah Eley supported the on-site Dialysis and Transplantation Clinic located in the Pritzker Class of 2022.

In FY22, the Section’s research funding totaled over $2.9M. Jay Koyner, MD was the recipient of a new NIH R01 utilizing machine learning for early recognition and personalized treatment of acute kidney injury, and Megali Prochaska, MD was awarded a NIH K23 to study the mechanisms of disordered citrate and oxalate excretion in nephrolithiasis.

The TIREK program is thriving and maintaining its census with over 70 patients treated in this program. In new clinical initiatives, Sambhavi Krishnamoorthy, MD and Anna Zisman, MD established a practice and referral program that allows for the evaluation of potential living donors with kidney stones. Dr. Gunning created an advanced CKD clinic targeting CKD4 and CKD5 patients, allowing for a smooth transition to ESKD and earlier transplantation. Dr. Chapman launched clinical genetic testing for hereditary cystic, glomerular, tubular and nephrolithiasis gene panels with the Department of Genetics.

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.
Under the leadership of Gökhan Mutlu, MD, the Section of Pulmonary and Critical Care Medicine continued its excellence in patient care, education, and research. In FY22, COVID-19 and its impact on clinical operations has remained a significant challenge requiring adjustment of Section's clinical coverage in MICU in response to changes in hospitalizations. Indeed, the emergence of SARS-CoV-2 Omicron variant in the fall 2021 led to substantial increases in MICU census requiring the creation of an additional MICU service as well as the establishment of nocturnal coverage. Section's faculty and fellows were instrumental in staffing these additional MICU services as they have been since the start of the pandemic in 2020. As part of Section's response to COVID-19, Ayodeji Adegunsoye, MD established a post-COVID pulmonary clinic to provide care to patients with respiratory symptoms following COVID.

To address the increased clinical workload in the MICU, the Section recruited two additional faculty at the rank of assistant professor, Lucas Kimmig, MD, is interested in understanding the pathophysiology and metabolic changes in critically ill patients and how these changes may be used to improve outcomes. Alexander Lstra, MD is an expert in sleep medicine and focuses his efforts on the evaluation and management of ventilatory disorders.

Clinically, the Section was able to maintain its outpatient clinical volume despite increasing demands on faculty and fellows for the inpatient service. The Interventional Pulmonary Program (Septimu Murgu, MD, Kyle Hogarth, MD, John P. Kress, MD) has continued to perform complex endoscopic procedures and, with the help of our interventional pulmonologists, we continue to provide high-quality care to our patients. The Pulmonary Hypertension Program, led by Remzi Bag, MD, received accreditation from the Pulmonary Hypertension Association. The Section of Pulmonary Medicine, led by Mary Strek, MD, has continued to provide excellence in patient care and research.

During FY22, the Section’s successful research program has grown further by additional extramural funding totaling nearly $15M. Julian Solway, MD received an R21 to study ventilation mode and sedation on diaphragm thickness. (Wolfe, Kroess, Patel, Ann Am Thorac Resp, Soc, 2022) The Pulmonary Hypertension Program has combined their efforts to study the effect of sleep extension on diaries. (Naureckas, Hogarth, White, Schoettler, 2021) The Medical Intensive Care Unit (MICU) has continued to expand, with the addition of a dedicated MICU service to provide care to patients with respiratory symptoms following COVID.

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The Section continues to recruit outstanding fellows into our three fellowship programs: pulmonary and critical care medicine, sleep medicine and interventional pulmonary. The majority of graduates of our pulmonary and critical care fellowship program continue to remain in academic medicine. Lastly, the Pulmonary Fibrosis Foundation Program was one of the few programs in the country that received a 5-year accreditation by the AABPP.
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, myositis, rheumatoid arthritis, and vasculitis. In the past year, Section faculty contributed to major and diverse advancements in the field of immunology including our understanding of human lupus, the mechanisms of transplant rejection, COVID treatments and insights into how to make better influenza vaccines.

The Section continues to work closely with physicians from pulmonary medicine, dermatology, neurology and pathology. With leadership from Pankti Reid, MD, the Section continues to work closely with physicians from the Section of Hematology/Oncology to improve on the diagnosis and treatment of interstitial lung disease. This multidisciplinary effort led by Dr. Ventura includes physicians from pulmonary medicine, dermatology, neurology and pathology. With leadership from Pankti Reid, MD, the Section continues to work closely with physicians from the Section of Hematology/Oncology to improve on the diagnosis and treatment of interstitial lung disease. This multidisciplinary effort led by Dr. Ventura includes physicians from pulmonary medicine, dermatology, neurology and pathology.

The Section continues to be a highly productive research enterprise with over $6.1M in extramural funding and several high-impact publications in Nature, Nature Communications, JAMA and the Journal of Clinical Investigation. These and other publications have made important contributions to our understanding of lupus, new treatments for both COVID and irAEs, and the design of better vaccines. Notable awards this year include a K99 to Jenna Guthmiller, PhD to investigate the development and clonal dynamics of broadly neutralizing B cells against influenza viruses.

In FY22, the Section made important contributions to the educational programs at the University of Chicago. Notably, Marisa Alegre, MD, PhD in collaboration with Melody Swartz, PhD has established a new NIH-supported Immunology & Engineering Postdoctoral Training Program which seeks to leverage the resources of the Pritzker School of Molecular Engineering to train investigators to use novel and innovative approaches to study and treat a broad range of immune-mediated disorders. The Section of Rheumatology is also home to the Medical Scientist Training Program (MSTP) that is led by Dr. Clark. It is one of the oldest NIH-supported physician scientist training programs in the United States. The MSTP continues to develop innovative initiatives to recruit and support physician scientists from all sectors of American society. It is one of the most diverse and broadly representative MSTPs in the country with 27% under-represented or disadvantaged students and approximately 50% women. The Rheumatology Fellowship Program continues to be recognized and supported by the American College of Rheumatology Fellowship Training Award.

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 Curtan) and inflammatory arthritis including an ultrasound center (Dr. Reem Jan). Notable in FY22 is the launch of the Myositis Center to provide bottled, coordinated care for difficult to treat myositis cases especially those complicated by interstitial lung disease. This multidisciplinary effort led by Dr. Ventura includes physicians from pulmonary medicine, dermatology, neurology and pathology. With leadership from Pankti Reid, MD, the Section continues to work closely with physicians from the Section of Hematology/Oncology to improve on the diagnosis and treatment of the broad spectrum of autoimmune and inflammatory complications that arise from immune-mediated diseases. The Section of Rheumatology/Oncology to improve on the diagnosis and treatment of the broad spectrum of autoimmune and inflammatory complications that arise from immune-mediated diseases.

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RESIDENTS AND FELLOWS

Internal Medicine Residents

2023 Chief Residents

Mary Acosta | Florida Atlantic University
Abdul Gafoor | Emory University
Nathan Kang | Northwestern University
Lauren He | University of Michigan

2022 Chief Residents

Rox McMillan | Johns Hopkins University
Katherine Wild | University of Chicago
Michael Jacobs | Thomas Jefferson University
Nandita Drivey | Medical College of Wisconsin

PGY LEVEL | MEDICAL SCHOOL ATTENDED

First Year Residents

Annie Curtin | University of Virginia
Michael Clarke | University of Illinois Chicago
Matthew Cochran | University of Texas San Antonio
Nirali Desai | University of Illinois Chicago
Tyra Doubek | Loyola University
Elli Green | University of Cincinnati
Nikhil Gupta | Case Western Reserve University
Thomas Hurford | University of Virginia
Sharun Jurev | University of Virginia
Chris Kupens | University of Virginia
Niko Kowalczyk | University of Arkansas
Aditya Li | University of Maryland
Ashok Luma | University of Illinois Chicago
Mitali Laxmi | University of Cincinnati
Michael Lioune | University of Michigan
Roxana Lion | University of Pennsylvania
Anita Flaner | University of Chicago
Maria Panarewka | Loyola University
Seth Schener | Ohio State University
Julia de Silva | Loyola University
Justin Sauter | Rutgers New Jersey Medical School
Adar Simeonov | Albert Einstein College of Medicine
Stanley Sung | University of Miami
Sam Tans | Boston University
Atilia Zahid | Emory University
Sumeet Zadh | Brown University
Jiako Zhao | Yale University

Second Year Residents

Aria Alman | University of Chicago
Ahmad Alaraj | University of Illinois
Chukewaere-Armanda | Tulane University
Nadine Barabas | University of Wisconsin
Erika Beinert | Rosalind Franklin University of Medicine & Science Chicago Medical School
Carline Chrisman | University of Chicago
Matt Feaster | Howard University
Nicole Gross | Baylor University
Hannah Iljumran | Wayne State University
James Lau | University of Illinois
Rachel Lambard | University of Illinois
Michael Mayer | University of Pennsylvania
Gertina Mhanto | Harvard Medical School
Inth Moloknra | Howard University
Elena Michards | Tufts University
Muhammed Mihel | George Washington University
Jesto Luckishe | Loyola University

Third Year Residents

Annie Curtin | Case Western Reserve University
Nirali Desai | University of Illinois Chicago
Niku Kowalczyk | University of Arkansas
Aditya Li | University of Maryland
Ashok Luma | University of Illinois Chicago
Mitali Laxmi | University of Cincinnati
Michael Lioune | University of Michigan
Roxana Lion | University of Pennsylvania
Anita Flaner | University of Chicago
Maria Panarewka | Loyola University
Seth Schener | Ohio State University
Julia de Silva | Loyola University
Justin Sauter | Rutgers New Jersey Medical School
Adar Simeonov | Albert Einstein College of Medicine
Stanley Sung | University of Miami
Sam Tans | Boston University
Atilia Zahid | Emory University
Sumeet Zadh | Brown University
Jiako Zhao | Yale University

Emergency Medicine Residents

2023 Chief Residents

Daren Agha | Rutgers New Jersey Medical School
Deni Allen | Howard University
Morgan Battaile | University of Arizona
Benjamin Bearnham | University of Texas
Sandra Cisker | University of Texas
Erica Cossens | Rutgers New Jersey Medical School
Dean Francis | University of Virginia
Timothy Fliman | University of California, San Diego
Bernnie Fokam | Emory University
Karts Harwas | University of Washington
Monika Khandelwal | Miami University
Michael McGarry | Brown University
Taylor Petronske | Loyola University
Heather Berto | University of Texas Southwestern
Ben Burke | Michigan State University
Angela Sams | University of Pittsburgh

PGY LEVEL | MEDICAL SCHOOL ATTENDED

First Year Residents

Kartikeya Kiran | University of Southern California
Saheli Mukherjee | Temple University School of Medicine
Arpita Saha | Washington University
Umeim Hemang Komar | Texas University College of Osteopathic Medicine
Sudesh Jadhav | University of California

Second Year Residents

Kamala Jayani | University of Wisconsin
Margaret Palustran | Tulane University
Daniel Peifer | Loyola University
Frank Wens | University of Chicago
Eric Pinckley | University of Michigan

Dermatology Residents

2023 Chief Residents

Scott McManus | Medical College of Wisconsin
Jade LePoff | Northwestern University
Maria Esteban | Université de Besançon (Faculté de médecine)
Marianne Escudero | University of Texas Southwestern

PGY LEVEL | MEDICAL SCHOOL ATTENDED

First Year Residents

Kamala Jayani | University of Wisconsin
Margaret Palustran | Tulane University
Daniel Peifer | Loyola University
Frank Wens | University of Chicago
Eric Pinckley | University of Michigan

Second Year Residents

Brenda Scott | Thomas Jefferson University
Drumma Escudero | University of Kentucky
Umar Shaikh | Saint Louis University
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Program</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>Jesse Drapekin</td>
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<td>Albina Tyker</td>
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<td>Patricia Dupont</td>
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<td>Matthew Gold</td>
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<td>Jo Ann</td>
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<td>Giselle He</td>
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<td>Rachelle Kranse</td>
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<td>Eesha Bare</td>
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<td>Lucas Nathwani</td>
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<td>Melissa Yee</td>
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<tr>
<td>Abigail Tyrell</td>
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<td>Benjamin Vavassori</td>
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<tr>
<td>Joseph Wiegand</td>
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<tr>
<td>Ming Wu</td>
<td>Medical Student</td>
<td>University of California</td>
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**Rheumatology**

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>Ana Benito de Mora</td>
<td>Medical Student</td>
<td>University of Wisconsin</td>
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<tr>
<td>John B. McKee</td>
<td>Medical Student</td>
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<tr>
<td>Michael P. Shipp</td>
<td>Medical Student</td>
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<tr>
<td>Christine Thompson</td>
<td>Medical Student</td>
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**Physician Scientist Development Program**

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>Venkatesh Balaram</td>
<td>Fellow, Hematology/Oncology</td>
<td>University of Chicago</td>
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<tr>
<td>Rob Cameron</td>
<td>Fellow, Hematology/Oncology</td>
<td>University of Chicago</td>
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<tr>
<td>Joe Carbone</td>
<td>Fellow, Hematology/Oncology</td>
<td>University of Chicago</td>
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<tr>
<td>Mengji Liao</td>
<td>Fellow, Cardiology</td>
<td>University of Chicago</td>
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<tr>
<td>Sabrina Inouye</td>
<td>Fellow, Infectious Diseases</td>
<td>University of Chicago</td>
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<tr>
<td>Anna Cooper</td>
<td>Fellow, Infectious Diseases</td>
<td>University of Chicago</td>
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**Cardiology**

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<th>Name</th>
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<tbody>
<tr>
<td>Ian Hackett</td>
<td>Non-Invasive Cardiologist</td>
<td>University of Illinois</td>
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<tr>
<td>Nikhil Singh</td>
<td>Non-Invasive Cardiologist</td>
<td>University of Chicago</td>
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<tr>
<td>Mark Klein</td>
<td>Assistant Professor</td>
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<tr>
<td>Mark Doria Cruz</td>
<td>Cardiologist</td>
<td>University of Chicago</td>
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<tr>
<td>Ryan Burns</td>
<td>Cardiac Electrophysiologist</td>
<td>University of Chicago</td>
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<tr>
<td>Adam Nerschott</td>
<td>International Cardiologist</td>
<td>University of Chicago</td>
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<td>Al Aboud</td>
<td>International Cardiologist</td>
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<tr>
<td>Michael Henry</td>
<td>General Cardiologist</td>
<td>University of Chicago</td>
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<tr>
<td>Jeremy Silvia</td>
<td>Assistant Professor</td>
<td>University of Chicago</td>
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**Dermatology**

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Margaret Bruns</td>
<td>Assistant Professor</td>
<td>University of Colorado</td>
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<tr>
<td>Stephen Cameron</td>
<td>Private Practice</td>
<td>Beverly, MA</td>
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<tr>
<td>Eric Dould</td>
<td>Private Practice</td>
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<td></td>
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<tr>
<td>Eric Dourle</td>
<td>Private Practice</td>
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**Dermatopathology Fellow**

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>Stephanie Peters</td>
<td>Private Practice</td>
<td>Tampa, FL</td>
<td></td>
</tr>
</tbody>
</table>
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 Oyer, 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 FY22:

• Published two issues of the “Women at the Forefront” newsletter: highlighting the accomplishments of women faculty/Trainees and continued the book recommendation section.
• Conducted a workshop on “Promotion in Academic Medicine” by Daniela Zekpah, MD, Associate Professor of Medicine at Duke University School of Medicine.
• Hosted an “After Hours” Session on “Ovarian Aging and infertility” for residents and faculty led by Amanda Adelaye, MD, Assistant Professor of Obstetrics and Gynecology at University of Chicago.
• Hosted a book talk by Lucy Lester, MD, retired Professor, Department of Pediatrics (Pulmonary Marketing, Sponsorship and Allyship” as the Women’s Committee’s 2022 Grand Round Speaker who spoke on “Moving the Needle: Mentorship, Sponsorship and Allyship” at University of Chicago to discuss her recent book “Women and the Practice of Medicine”.
• Hosted an "After Hours" Session on "Ovarian Aging and Infertility" for residents and faculty presented data to the departmental leadership team on the percentage of women invited as speakers to major department events.
• Hosted a book talk by Lucy Lester, MD, retired Professor, Department of Pediatrics (Pulmonary Marketing, Sponsorship and Allyship” as the Women’s Committee’s 2022 Grand Round Speaker who spoke on “Moving the Needle: Mentorship, Sponsorship and Allyship”.

INCLUSION
IMPACT
INNOVATION

SELECT HIGH IMPACT PUBLICATIONS

SELECT HIGH IMPACT PUBLICATIONS


7. Colgan K, Celmins, L. Initiation of a Discharge Pharmacy Within a Busy COVID-19. Z.


Section of Genomic Medicine
T Zheng, Y Li
Predicting RNA splicing from DNA sequence using PANGolin.
Genome Biology, 2021

Section of Geriatrics & Palliative Medicine

Section of Hematology/Oncology

Section of Rheumatology


### Section of Cardiology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Dermatology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Emergency Medicine

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Endocrinology, Diabetes & Metabolism

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Gastroenterology, Hepatology, and Nutrition

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Hematology/Oncology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Neurology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Nuclear Medicine

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Oncology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Ophthalmology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Otolaryngology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Orthopaedics

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Pediatrics

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Radiology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Rheumatology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Urology

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

#### Section of Vascular Medicine

**Total Clinical Trial Earnings**: $1,965,228

**Total Industry Grants**: $1,715,981

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**Notes:**
- The data includes various grants and research awards across different fields of medicine and science.
- The table formats the grants and research awards in a structured manner, detailing amounts and beneficiaries.
- Specific projects and institutions are mentioned, providing a comprehensive view of the research landscape.
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<tr>
<th>Project Title</th>
<th>Estimate</th>
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<tbody>
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<td>Myeloid Malignancies</td>
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<td>Genetic and Epigenetic Control of Hematopoiesis</td>
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<td>Host Immunity and Metabolism in Malignant Hemopathology</td>
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<td>CancerGenetx: Pharmacogenetics and Pharmacodynamics in Cancer</td>
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<td>Multiple Myeloma Research Program</td>
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<td>Cancer Cell Signaling/Genetics/Metabolism</td>
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<tr>
<td>Genetic and Epigenetic Control of Hematopoiesis</td>
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<tr>
<td>Hematopoietic Stem Cells</td>
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<td>Acute Myeloid Leukemia</td>
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<td>Myeloproliferative Syndromes</td>
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<td>Total</td>
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Section of Hospital Medicine

Total Indirect Costs Awarded

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<tr>
<th>Fiscal Year</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dollars</td>
<td>$2,378</td>
<td>$3,207</td>
<td>$3,789</td>
<td>$2,420</td>
<td>$6,264</td>
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</table>

Industry Grants

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dollars</td>
<td>$2,378</td>
<td>$3,207</td>
<td>$3,789</td>
<td>$2,420</td>
<td>$6,264</td>
</tr>
</tbody>
</table>

Section of Infectious Diseases and Global Health

PrINCIPAL INVESTIGATOR

PUBLIC HEALTH SERVICE

ANNUAL DIRECT COSTS AWARDED

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dollars</td>
<td>$2,378</td>
<td>$3,207</td>
<td>$3,789</td>
<td>$2,420</td>
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ANNUAL INDIRECT COSTS AWARDED

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
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</thead>
<tbody>
<tr>
<td>Dollars</td>
<td>$2,378</td>
<td>$3,207</td>
<td>$3,789</td>
<td>$2,420</td>
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</table>
### Total Sponsored Research Awards

<table>
<thead>
<tr>
<th>Grant Type</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
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<tbody>
<tr>
<td>Total Sponsored Research</td>
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<td>$58,520</td>
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<td>Public Health Service</td>
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<td>$1,626,375</td>
<td>$3,503,575</td>
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<tr>
<td>State/Association/Foundations</td>
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### Section of Pulmonary/Critical Care

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<tr>
<th>Principal Investigator</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shamos, Christopher D.</td>
<td>$180,000</td>
<td>$3,093</td>
<td>$97,000</td>
<td>$49,100</td>
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### Section of Infectious Disease and Global Health

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chopra, Swapinder</td>
<td>$10,000</td>
<td>$9,997</td>
<td>$1,800</td>
<td>$3,000</td>
<td>$2,111</td>
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### Section of Nephrology

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<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
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</thead>
<tbody>
<tr>
<td>Koyner, Jay L.</td>
<td>$146,310</td>
<td>$42,770</td>
<td>$104,452</td>
<td>$26,575</td>
<td>$26,375</td>
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</table>

### Clinical Trial Earnings

<table>
<thead>
<tr>
<th>Research Team</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapman, Arlene Beth</td>
<td>$146,310</td>
<td>$42,770</td>
<td>$104,452</td>
<td>$26,575</td>
<td>$26,375</td>
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### Total Industry Grants

<table>
<thead>
<tr>
<th>Industry Grants</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
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</thead>
<tbody>
<tr>
<td>Total Industry Grants</td>
<td>$146,310</td>
<td>$42,770</td>
<td>$104,452</td>
<td>$26,575</td>
<td>$26,375</td>
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</table>
## Total Sponsored Research Awards

<table>
<thead>
<tr>
<th>Section Of Rheumatology</th>
<th>PUBLIC HEALTH SERVICE</th>
<th>ANNUAL DIRECT COSTS AWARDED</th>
<th>ANNUAL INDIRECT COSTS AWARDED</th>
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</thead>
<tbody>
<tr>
<td>Angel, Matthew</td>
<td>Life-threatening and life-limiting inflammatory diseases and investigations into the consequences of obesity (Subcontract)</td>
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<td>$11,946</td>
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<tr>
<td>Clark, Marcus Ramsay</td>
<td>Impact of inflammation on allospecific responses in transplantation</td>
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<td>$1,905,000</td>
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<tr>
<td>Clark, Marcus Ramsay</td>
<td>Induction and control of inflammation in transplantation</td>
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<tr>
<td>Clerk, Matthew Barney</td>
<td>Pulmonary hypertension (Sarcoidosis)</td>
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<td>Clerk, Matthew Barney</td>
<td>Therapeutic evaluation in peripheral adaptive immunity</td>
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<tr>
<td>Clerk, Matthew Barney</td>
<td>Role of IL-17C in immunopathogenesis of disease progression</td>
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<tr>
<td>Galant, Robert</td>
<td>Hematopoietic development of NK and CD8+ T lymphocytes</td>
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<tr>
<td>Guthrie, Joseph</td>
<td>Investigating the development and clinical dynamics of broadly neutralizing antibodies against influenza virus</td>
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<td>Kao, Yu</td>
<td>Training Program in Lupus Infection (Subcontract)</td>
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<tr>
<td>Leibman, Matthew H.</td>
<td>Comparing single nucleotide polymorphisms in human populations in breast cancer and other malignancies</td>
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<tr>
<td>Industry Grants</td>
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<td>$3,688</td>
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</table>

### 2022 Department of Medicine Annual Report including select faculty publications

Please visit medicine.uchicago.edu for a full version of the 2022 Department of Medicine Annual Report including select faculty publications by section and the FY22 Sponsored Program Awards.

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