



**Weill Cornell
Medicine**

Care

Discover

Weill Department of Medicine

Annual Report 2017

Teach



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Dear Colleagues and Friends:



2016 was an eventful year for the Weill Department of Medicine. The Department's former Chairman, Dr. Augustine M.K. Choi, was appointed as the Stephen and Suzanne Weiss Dean of the Weill Cornell Medical College at Weill Cornell Medicine. We congratulate Dr. Choi on his new appointment.

As of January 2017, I have been serving as Interim Chairman of the Weill Department of Medicine. It is a distinct honor to serve in this role for the same department in which I trained, and I look forward to furthering major advances throughout

our department's longstanding tripartite mission in research, education, and patient care.

There have been many landmark accomplishments since the department's inception in 1898; history shows that each decade has produced remarkable achievements as our physician-scientists have relentlessly unraveled life-saving scientific discoveries. Today, the department's 16 divisions are staffed with outstanding faculty who are award-winning experts in their respective fields. I am certain that their discoveries will continue to yield even more effective and more personalized treatments for a wide array of diseases. I invite you to explore the Division Profiles in this annual report to learn more about the major advances occurring within each medical specialty.

The Weill Department of Medicine continued to see solid growth during fiscal year 2016 with an increase in total operating funds equaling \$332.2 million, as compared with \$313.0 million in fiscal year 2015. Our clinical revenue increased by 2.35%, and research grants equaled \$44.1 million, with industry-sponsored research increasing by 8.39%.

It is with the utmost enthusiasm that we remain dedicated to providing patients with high-quality care, training a superb new generation of physician-scientists, and launching novel research that will successfully break through new horizons.

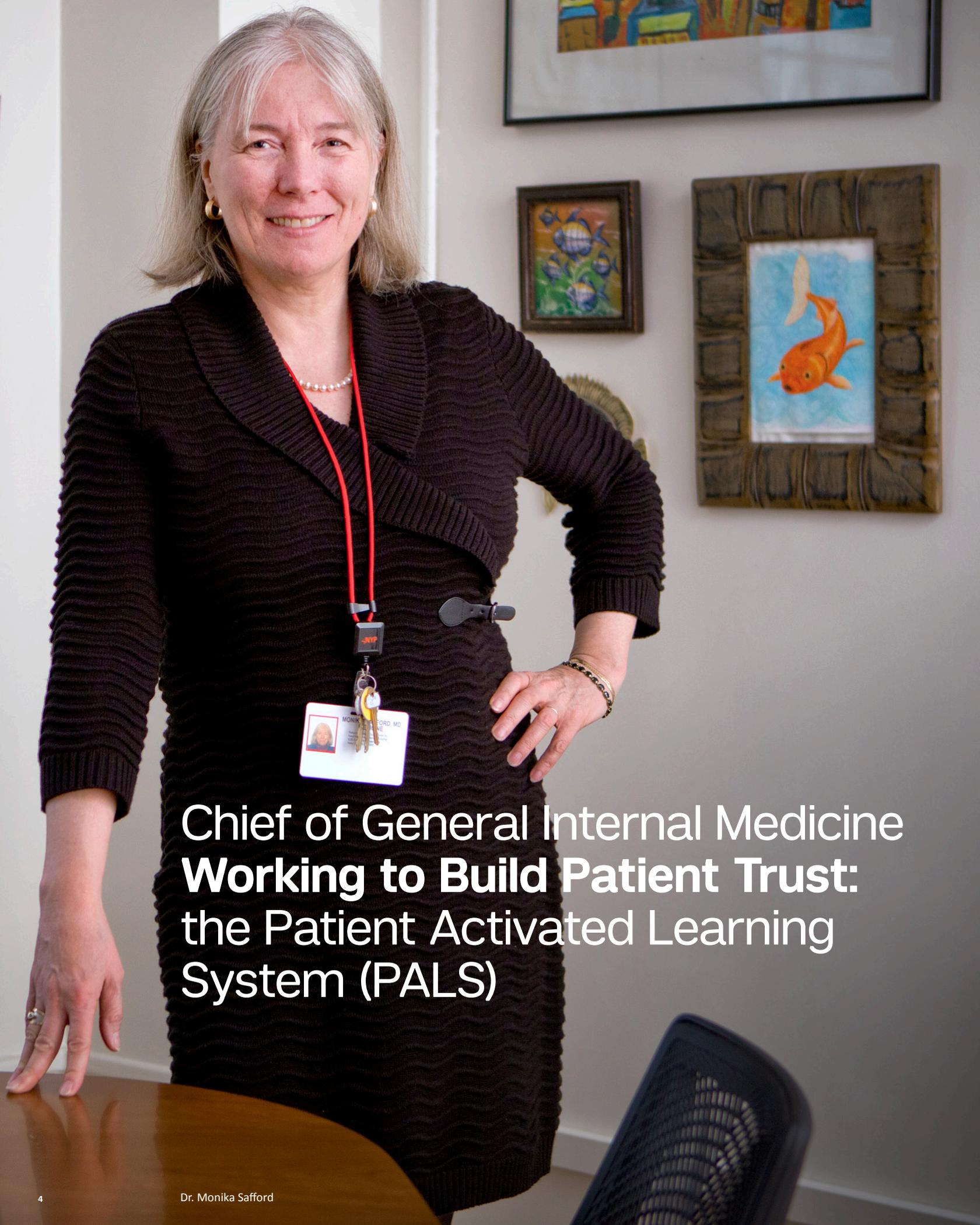
Sincerely,

A handwritten signature in black ink, appearing to read "John Leonard". The signature is fluid and cursive.

John Leonard, M.D.

Interim Chair, Weill Department of Medicine
Vice Chair for Clinical Research
Associate Dean of Clinical Research

As of 2017, the Weill Department of Medicine's annual report has "gone green" and will no longer be produced as a hard copy. This annual report is easily accessible on our website's homepage at www.medicine.weill.cornell.edu.



**Chief of General Internal Medicine
Working to Build Patient Trust:
the Patient Activated Learning
System (PALS)**

Monika Safford, M.D., who was recruited to the Weill Department of Medicine in 2016 to serve as Chief of the Division of General Internal Medicine (GIM), is also the John J. Kuiper Professor of Medicine. Dr. John J. Kuiper, a Cornell alum, had funded the named professorship and then passed away soon after in 2015. His hope for a new and robust Division of GIM that would provide outstanding medical care to all patient populations has come to life under the leadership of Dr. Safford. The many major advances since Dr. Safford's arrival to Weill Cornell have included the merging of hospital medicine and ambulatory care within the division; the establishment of NIH-sponsored studies on health disparities; and the birth of Dr. Safford's brainchild – the PALS.

The PALS is an online source of knowledge for patients. It was envisioned by Dr. Safford when she was working at the University of Alabama at Birmingham School of Medicine (UAB) where she was carrying out numerous investigations involving an underserved and largely African-American region called the Alabama Black Belt, an area in which two-thirds of adults are obese and many have diabetes or hypertension. Dr. Safford's goal for the PALS was that it would open the doors – for all patients – to a world of accessible, reliable, easily understood, and carefully researched medical information. Since joining Weill Cornell, she has been collaborating on the PALS with Dr. Fred N. Pelzman, an Associate Professor of Clinical Medicine in the Division of GIM and the Medical Director of Cornell Internal Medicine Associates. The Founder of the Institute for Primary Care Innovations at Weill Cornell, Dr. Pelzman incorporated the PALS under the Institute's umbrella, and along with a talented low-cost software group that Dr. Safford had brought onboard from Alabama, the project reached fruition.

In March of 2017, the PALS premiered online with its first round of medical information focused on hypertension – the silent killer. “So many aspects of the PALS came together fortuitously,” explains Dr. Safford. “Now we have begun collaborating with the Division of Geriatrics and Palliative Medicine for our next round of medical information, which will be on palliative medicine. The PALS is an ongoing work in progress that will provide patients with knowledge in virtually all areas of medicine. It will help to improve a patient's understanding of their own medical condition and, at the same time, enable shared decision-making between doctor and patient. There is limited time in the office when you are with a patient, and PALS is designed to help overcome that obstacle by building trust through knowledge.”

A large component of the PALS project is the culmination of many years of research conducted by Dr. Safford. This includes Dr. Safford's experience treating low literacy populations, as well as her observations working in private practice with higher literacy populations. “Deficits in medical knowledge can be seen across all social strata, and what I have learned working on the PALS has been interesting. For instance, we have found that whether patients have low literacy or hold a Ph.D., most will gravitate to a simpler style of audio-visual that engages them, versus heavy text reading. It's simply easier for them to understand, less mental energy is needed, and it's less time-consuming. Whatever the social strata, patients share many similar concerns. What are the side effects of a medicine? How much will the medicine cost? How will it really help me? What are my risks and benefits?”

Dr. Safford is happy to report that the medical information on the PALS is not only available for patients at Weill Cornell, but it serves as an online platform of knowledge “for the whole world to use.” Visit the PALS at palsforhealth.com.

“It is a pleasure to work with such a diverse and creative staff and to foster collaborations among the many talented physicians and scientists in our division,” says Dr. Safford. Dr. Safford is also forging outside collaborations, including a strategic retreat to be held at Cornell University that will produce a plan for the launch of a new research center devoted to health equity. It will be a unique collaboration between physician-investigators at Weill Cornell and top tier social scientists working at the Cornell University-Ithaca campus. This is one of several groundbreaking endeavors underway in the division. As Dr. Safford emphasizes, “Our ultimate goal is to become the best Division of GIM in the country within five years.”

(Please refer to Division Profiles for further information about activities in the Division of General Internal Medicine.)

Dr. Safford's goal for the PALS was that it would **open the doors – for all patients** – to a world of accessible, reliable, easily understood, and carefully researched medical information.



Gastroenterology and Hepatology: New Chief, New Recruits, New Pathways

Dr. David E. Cohen

In 2016, the Weill Department of Medicine welcomed David E. Cohen, M.D., Ph.D., as Chief of the Division of Gastroenterology and Hepatology. Dr. Cohen previously served as Director of Hepatology at Brigham and Women’s Hospital and Director of the Harvard-MIT Division of Health Sciences and Technology. His laboratory is leading the frontiers of molecular regulation of nutrient metabolism and energy homeostasis by membrane lipids. Recently named Editor-in-Chief of *Hepatology*, the leading journal in its field, Dr. Cohen is driving the division towards new horizons with an emphasis on state-of-the-art research and novel collaborations. He is eager to build upon the division’s distinguished history, which has included many milestones over the years: breakthrough clinical trials for hepatitis C; establishment of the Jay Monahan Center for Gastrointestinal Health; launch of permanent laboratories for the Jill Roberts Institute for Research in Inflammatory Bowel Diseases; major advancements in the treatment of liver disease; and the expansion of endoscopy suites and services.

“In 5 to 10 years, we hope to be a division where all clinicians and basic researchers are collaborating together and answering questions about human digestive diseases in a way that will offer our patients the absolute most current

care available – whether that be the most current patient care or through a clinical trial,” says Dr. Cohen. A world-renowned expert on the molecular regulation of hepatic lipid and glucose metabolism, Dr. Cohen has brought to Weill Cornell a critical new line of research that focuses on one of the world’s most challenging conditions: obesity. Specifically, Dr. Cohen’s studies are examining NAFLD (nonalcoholic fatty liver disease), as they unravel the key aspects of this condition and its risk factors, which are implicated in obesity-related disorders (e.g., non-alcoholic fatty liver disease, type 2 diabetes, coronary artery disease, as well as an increased predisposition to cancer).

Nonalcoholic fatty liver disease, as the term implies, is a condition wherein a patient does not drink excess alcohol, yet accumulates unhealthy fat in the liver as if they did drink too much. NAFLD is strongly associated with obesity and affects 25% of the world’s population. “The cost to treat NAFLD is over 100 billion dollars for those 60 plus million Americans who have this condition and who receive medical care for it. It is estimated that it costs \$1,600 per patient per year to cover doctor visits and blood tests,” explains Dr. Cohen. “While industry is focused on ways of getting rid of NAFLD, which may include drugs or surgical approaches, one thing we do know



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for sure is that losing weight works. If you lose 10% of your body weight, at whichever point it is discovered a person has NAFLD, then you will see progress from a medical standpoint – glucose improves, joint stress is relieved, blood pressure stabilizes.”

While the practical approach to losing weight is implemented in the clinical setting, Dr. Cohen’s laboratory has been achieving landmark findings to solve a particular mystery involved in weight gain. His work has defined and characterized genetic mechanisms that appear to be part of a process where the body conserves, or seeks to save, calories. “Trying to understand the genes that we think evolved in the human body in order to conserve calories is central to our research. Conserving calories was an important evolutionary adaptive mechanism in the past. Because if you didn’t know where your food was coming from within three days, it was necessary for the body to conserve calories in order to survive. Today, there is widespread overfeeding and overnutrition occurring. Those old genes are no longer helpful. If we can figure out the key genes responsible for this conservation mechanism, then we can inhibit those genes.”

When Dr. Cohen was recruited to Weill Cornell, he brought on board three of his Harvard colleagues: Drs. Baran A. Ersoy, Tibor Krisko, and Hayley T. Nicholls. Dr. Ersoy is directing an independent laboratory focused on the hepatic metabolism and insulin resistance. Dr. Nicholls is also working in the Cohen laboratory on the role of the microbiome in regulating energy expenditure and glucose metabolism. Dr. Krisko is providing clinical care coupled to research on metabolic liver disease (NAFLD) and the gut microbiome. Recently, Dr. Cohen has recruited several more top tier physicians and investigators, including Drs. Kristy A. Brown, David L. Carr-Locke, Brett E. Fortune, and Philip O. Katz.

Under the leadership of Dr. Cohen, the Division of Gastroenterology and Hepatology is expected to experience exponential growth over the next decade. Dr. Cohen’s studies are receiving funding from the National Institutes of Health spanning to 2020 and beyond. He looks forward to continued collaborations with investigators in his own division, other departmental divisions and institutes, as well as with The Rockefeller University, Memorial Sloan-Kettering Cancer Center, and other medical centers. New lines of study for therapeutic drug treatments and clinical trials are also in view.

Dr. Cohen has another unique vantage point from which to assess all of these new horizons. “Serving as Editor of *Hepatology*, I receive 10 to 20 papers a day for consideration,” he laughs. “That is a lot of papers per day, but allows me to preview what is new, what are the trends, what is the rest of the world concerned about.”

(Please refer to Division Profiles for further information about activities and new recruits in the Division of Gastroenterology and Hepatology.)



Known as a “forward-thinker” and a physician-scientist who is **committed to groundbreaking research**, Dr. Martinez is also a champion of maintaining superb clinical standards.

Dr. Fernando Martinez

New Chief of Pulmonary and Critical Care Medicine **Launches New Pathways for Personalized Patient Care**

Fernando Martinez, M.D., who previously served as the WDOM's Executive Vice Chairman of Medicine, has been appointed to Chief of the Division of Pulmonary and Critical Care Medicine. An authority on fibrotic lung disease and airway disorders, Dr. Martinez is leading the division towards major expansions in both translational research and patient care. As researchers in the division continue to further a better understanding of the biological basis of important lung diseases, there remains a constant focus on delivering more personalized treatments to those patients who are living with these challenging conditions.

Known as a "forward-thinker" and a physician-scientist who is committed to groundbreaking research, Dr. Martinez is also a champion of maintaining superb clinical standards. One of the division's new initiatives is a cross-institutional, comprehensive airways program for airways diseases (COPD and asthma), as well as multidisciplinary programs to evaluate and manage breathlessness and chronic cough. These initiatives will be focused on developing coordinated models of evaluation and care. There is also an effort underway to expand a state-of-the-art interstitial lung disease program, a condition in which lung tissue becomes scarred and progressively impedes a person's ability to breathe.

For 30 years Dr. Martinez has received ongoing grant support for his mentorship activities. He has most recently served as the Chair of the National Heart, Lung and Blood Institute's career development study section, MPOR (Mentored Patient Oriented Research). He is involved in multiple National Institutes of Health supported consortia, as well as the Department of Defense efforts to bring pulmonary findings from the lab to patients. He has been awarded active and ongoing NIH and DoD grants to design and test tools to identify patients at an increased risk of developing COPD; testing new therapeutic approaches in COPD and pulmonary

fibrosis; and identifying biological pathways of fibrosis and COPD. At Weill Cornell Medicine, he leads a multicenter, NIH-sponsored clinical trial that explores the modification of the lung microbial community to improve survival in patients with idiopathic pulmonary fibrosis.

Dr. Martinez has had more than 370 papers published in the peer-reviewed journals. At the forefront of landmark advances in pulmonary medicine, his recent publications reflect both the complex biological molecular advances he is achieving in addition to practical improvements for the patient care setting. One recent patient care advance was published in the *American Journal of Respiratory and Critical Care Medicine* highlighting a new and inexpensive approach to identifying undiagnosed patients with COPD using a simple peak expiratory flow (PEF) meter and five simple questions. There are an estimated 16 million Americans living with COPD, and it is the third leading cause of death in the U.S. It is felt that an equal number suffer from the disease but have not been currently diagnosed. Follow-up studies are underway to help establish if earlier detection of COPD will improve quality of life and health outcomes.

"Weill Cornell Medicine and NewYork-Presbyterian are wonderful institutions that have allowed me to pursue the important work necessary to bring this division to the next level," Dr. Martinez said. "With a four-pronged approach of undertaking robust investigations to better understand the biology of lung disorders, driving therapeutic decisions with patient-specific information, mentoring the next generation of pulmonologists to ask pointed and strategic questions, and enhancing community engagement, this division will remain a leader in the field."

Preventing Infections from Resistant Gut Bacteria in Vulnerable Patients with Cancer



Dr. Michael J. Satlin

The gut is home to a plethora of bacteria. Some of that bacteria is good, meaning protective, and some is bad. “We are focused on the bad bacteria,” explains Dr. Michael J. Satlin, who serves as Principal Investigator (PI) of a 5-year NIH-funded K23 study that is examining resistant bacteria in the gut of patients with leukemia and bone marrow transplant recipients.

Dr. Satlin, an Assistant Professor of Medicine in the Division of Infectious Diseases, has been making critical advances towards understanding how to analyze stool samples to predict which bacterial infections may occur when a patient’s immune system is weakened after chemotherapy.

“By understanding the infections each patient is at risk for, individualized prevention and treatment strategies could be designed, which could be life-saving for these vulnerable patients,” says Dr. Satlin. “We are not using our research data to alter treatment at this point, but we are in the third year of observation, and by the end of our study we will come up with strategies for prevention and treatment based on exactly which bacteria is found within the patient’s intestinal tract.”

As a physician, Dr. Satlin provides infectious disease consultations working with patients at NewYork-Presbyterian/Weill Cornell Medical Center who are receiving chemotherapy and/or have received bone marrow transplants for the treatment of blood cancers, such as leukemia and lymphoma. He has developed a productive partnership with the leukemia and transplant teams – oncologists, nurses, physician assistants, and staff -- which has allowed him to recruit patients for his study. “Our study, which involves the collection and examination of stool samples, is not a clinical trial. There is no risk for the patient to participate in the study, but perhaps some inconvenience. Nevertheless, I am always surprised at how many patients willingly want to help by participating.”

In what Dr. Satlin describes as “the perfect storm,” patients with blood cancers who receive chemotherapy are at very high risk of infection. The first sign of trouble ahead for these patients is a fever. “When someone has a fever, and their immune system is compromised from receiving chemotherapy, we can’t know immediately if that person is actually infected with bad bacteria. The fever could be due to something else. But, if there is a fever, we must carry out blood tests to find out whether they have a blood stream infection and what bacteria are causing the infection. Infections must be treated within one hour of discovery or there can be dire consequences – in fact, there is an estimated 70% mortality rate without treatment for certain types of bacterial infections in these immunocompromised patients. It is critical that these patients are treated immediately with the

right antibiotic, which quickly kills any infecting bacteria.”

Driving this perfect storm, according to Dr. Satlin, are three main components. One, the chemotherapy used to fight cancer also kills white blood cells (WBC) that are needed to fight infection in the body. Two, chemotherapy also kills cells that line the gastrointestinal tract (causing mucositis), thus impairing the usual protective barrier that prevents bacteria from entering the blood stream. And three, along with low WBC and the disruption of the intestinal tract lining, patients are treated with antibiotics that further disrupt the balance of bacteria. When this happens, good bacteria can be killed off and the pathogenic bacteria can take over.

“By looking at patient stool samples,” explains Dr. Satlin, “we can predict what the patient is at risk for in terms of infection. We use petri dishes and only select out for certain resistant bad bacteria, while asking the question: Do the bacteria that we see colonizing the gut match the bacteria that cause bloodstream infection? We can do this using a technique called genotyping.” With genotyping, Dr. Satlin’s group is able to examine the DNA in the bacteria to provide a genetic fingerprint and to determine whether the gut and bloodstream bacteria are the same.

One of the mechanisms by which resistant bacteria arise is that gut bacteria can transfer genes that confer antibiotic resistance to each other. “Normally, people do not become sick from this gene-swapping process,” explains Dr. Satlin, “but it is much worse for patients with cancer if they acquire a bad bacteria.”

To better understand how bacteria share antibiotic resistance genes, Dr. Satlin has been collaborating with Dr. Ilana Brito, who joined the Biomedical Engineering faculty of Cornell University-Ithaca in July 2016. Dr. Brito uses systems biology approaches to study the transmission of bacterial and genetic components of the human microbiome. “By utilizing Dr. Brito’s state-of-the-art-tools, we are able to directly examine the genes within the gut. We can actually see how the gene-swapping evolves,” explains Dr. Satlin. “This is an example of how a collaboration between technology on the Cornell University campus and medicine here at Weill Cornell can lead to a much more personalized treatment plan for the patient. It is a win-win all around.”

By understanding the infections each patient is at risk for, **individualized prevention and treatment strategies** could be designed, which could be life-saving for these vulnerable patients.

Resident-in-Training Named National Hispanic Medical Association (NHMA) Resident of the Year



Dr. Nicole Cruz

Dr. Nicole Cruz, who grew up in Puerto Rico, was named the National Hispanic Medical Association (NHMA) Resident of the Year. This honor was bestowed upon Dr. Cruz at the NHMA National Meeting in Washington, D.C. in May 2017. Dr. Cruz attended the University of Puerto Rico where she graduated with honors and then excelled as a top tier student at the San Juan Bautista Medical School, Puerto Rico, before joining the Residency Training Program in Internal Medicine at NewYork-Presbyterian Hospital/Weill Cornell.

Dr. Cruz knew early on in life that she wanted to pursue a career in medicine, and by the time she reached college, she was asking the question, “What kind of a doctor do I want to be?” Since then, medicine has become her “life’s journey” with a focus on both patient care and science. “In college, I remember finding the studies of molecular biology and immunology very intriguing,” explains Dr. Cruz, “because I was finally understanding the mechanisms through which the body works.” Throughout medical school, her “passion for research” persisted, and during this time she found the MSTAR summer research program in hematology and immunology at Johns Hopkins. This experience solidified Dr. Cruz’s ultimate goal: to join a residency training program that would afford her the opportunity to learn from the world’s top experts in hematology and oncology. Today, Dr. Cruz is asking the question, “What type of oncologist do I want to be?”

Despite carrying a heavy clinical load as part of her residency training, Dr. Cruz has developed a research project at Weill Cornell in collaboration with her mentor, Dr. Monica L. Guzman, Associate Professor of Pharmacology in Medicine, Division of Hematology and Medical Oncology. Their investigation is evaluating a leukemia stem cell marker, CD123, and its potential as a new immunotherapy target for patients with leukemia. As a result of her superlative work with Dr. Guzman in the Guzman laboratory, Dr. Cruz received the 2016 American Society of Hematology Opportunities for the Next-Generation of Research Scientists (ASH-HONORS) Award. This award is intended to encourage its recipients to continue a career in hematological research.

Dr. Cruz’s training has provided her with many challenging and sometimes emotional interactions with cancer patients. She has learned to strategize best treatment plans and navigate complicated admissions and discharges to and from the hospital. She has especially enjoyed her relationships with the patients themselves and their families. “Nothing compares to the bond I made with the patients in the leukemia service. I remember receiving a phone call from the husband of one of my beloved patients to let me know that she was not doing well and that she wanted to see me to say goodbye,” says Dr. Cruz. “Despite all the emotional challenges, what I cherished most was becoming part of their lives.”

The dedication, intellect, and meticulous attention to detail that Dr. Cruz has demonstrated as a resident-in-training portend of an outstanding career in academic medicine. She has also impressed her mentors with her proactive leadership skills: as Co-Chair of the Department of Medicine’s Minority Housestaff Committee, she spearheaded a mentorship program for the residents that has enhanced diversity, community, and opportunity. With her sights set on a career in academic hematology-oncology, Dr. Cruz begins a fellowship in hematology and medical oncology at Weill Cornell in July 2017.

“It was not until I came to the United States for residency training that I realized I could pair my love for patient care with research. My fellowship is the next step, which will allow me to pursue academic translational medicine – delivering bench to bedside medicine with compassionate care. I’m going to use the tools and opportunities that I’ve been afforded to do my best in becoming a physician-scientist.”

The department looks forward to Dr. Cruz’s future successes and to the contributions she will make in biomedical science and academic medicine, as well as to the Latino community.

Dr. Cruz knew early on in life that she wanted to pursue a career in medicine, and by the time she reached college, she was asking the question, **“What kind of a doctor do I want to be?”**

Leadership and Vice Chairs

John Leonard, M.D.

Interim Chair, Weill Department of Medicine

Vice Chair for Clinical Research

Associate Dean of Clinical Research



Dr. John P. Leonard serves as the Interim Chairman of the Weill Department of Medicine. He is the department's Vice Chair of Clinical Research, a role in which he is advancing the broad mission of the department as well as for the parent institutions of Weill Cornell Medical College and NewYork-Presbyterian Hospital. He is also the Associate Dean of Clinical Research at WCMC and the Associate Director of the Sandra and Edward Meyer Cancer Center. The Richard T. Silver Distinguished Professor of Hematology and Medical Oncology, Dr. Leonard is an innovative, internationally recognized clinical investigator in the field of hematological malignancies. He is a pioneer in the development of novel therapeutics in lymphoma, and is one of the leaders of the national lymphoma clinical trials effort as leader of the Lymphoma Committee for the Alliance for Clinical Trials in Oncology, which is part of the National Clinical Trials Network of the National Cancer Institute. Dr. Leonard has spearheaded many innovative initiatives in the Weill Department of Medicine to facilitate cutting-edge patient-oriented research.

Orli Etingin, M.D.

Vice Chair for Faculty

Dr. Orli Etingin is the founder and Medical Director of the Iris Cantor Women's Health Center at NewYork-Presbyterian/Weill Cornell Medical Center, a multidisciplinary group practice sponsored by the Departments of Dermatology, Medicine, Obstetrics and Gynecology, Radiology, Surgery and Urology. She is the Lisa and Sanford B. Ehrenkranz Professor of Clinical Medicine at Weill Cornell Medical College and serves as Vice Chair for Faculty with the Weill Cornell Department of Medicine. Dr. Etingin's clinical expertise is in internal medicine and coagulation disorders, such as blood clotting in pregnancy. Dr. Etingin received her undergraduate degree from Johns Hopkins University. After receiving her M.D. from Albert Einstein College of Medicine in New York, she completed residency training in Internal Medicine, subspecialty training in Hematology-Oncology and a Chief Residency at New York Hospital - Cornell Medical Center. As the recipient of an NIH Clinical Investigator Award from 1987 to 1992, she conducted basic scientific research on thrombosis in vascular cells, leading



to numerous publications in the journals *Cell*, *Biochemistry*, and *Journal of Clinical Investigation*. Dr. Etingin is listed in *Who's Who*, *Castle Connolly's Best Doctors Guides* and *US News Top Doctors*. She was the associate editor of the *Textbook of Women's Health*, a comprehensive manual for physicians in the field. A frequently invited speaker at women's health symposia, she has served as Moderator of the annual Women's Health Symposium at NewYork-Presbyterian Hospital since 1998 and as Moderator of the annual Women and the Brain Conference since 2006. Dr. Etingin is a member of the American Medical Women's Association and the American Medical Association. She is the editor of two nationally distributed newsletters, *Women's Health Advisor* and *Women's Nutrition Connection*, and a contributor to *Everyday Health*.



Steven M. Lipkin, M.D., Ph.D.

Vice Chair for Basic and Translational Research



Dr. Steven M. Lipkin Associate Professor of Medicine, Division of Gastroenterology and Hepatology, is the newly appointed Vice Chair for Basic and Translational Research. As Vice Chair for Basic and Translational Research, Dr. Lipkin will work with departmental and divisional leadership to enhance and foster the research activities of our faculty and trainees. A nationally and internationally regarded leader in the field of adult genetics, he was recently elected as a Member of the American Society of Clinical Investigation. His research focuses on genetic testing for hereditary cancer disorders, including the Lynch Syndrome, Familial Adenomatous Polyposis, and Hereditary Pancreatic Cancer, among others. He is an authority on cancer genetic syndromes, with a particular emphasis on hereditary gastrointestinal cancer syndromes, and authored MAPP-MMR, a bioinformatic program that is used to interpret whether Lynch syndrome

missense variants are deleterious mutations or benign polymorphisms. Dr. Lipkin has more than 60 published papers in the top peer-reviewed journals and is the author of *The Genome Generation: Tales from the frontlines of Genetic Medicine*, recently published in 2016 by Beacon Press. Dr. Lipkin has practiced at New York-Presbyterian Hospital/ Weill Cornell Medical College since 2009. He trained in Internal Medicine at Duke University and in Medical Genetics at the National Human Genome Research Institute, where he performed post-doctoral work in the laboratory of Francis Collins, now Director of the NIH.

Lia Logio, M.D.

Vice Chair for Education

Associate Dean for Faculty Development

Dr. Lia Logio joined the Weill Department of Medicine in 2010 as the Vice Chair for Education and Director of the Internal Medicine Residency Program. She received her M.D. from The Johns Hopkins University and completed residency training in internal medicine at Duke University Medical Center. She has received numerous regional and national teaching awards and is well known in the medical education academic community. She has served as a Content Contributor to the Medical Knowledge Self-Assessment Program (MKSAP) through the American College of Physicians. She was one of 20 program directors awarded the prestigious Educational Innovations Project (EIP) from the Accreditation Council on Graduate Medical Education (ACGME) and the Residency Review Commission in Internal Medicine (RRC-IM). She has been invited to speak to the Institute of Medicine and National Institute of Health.

A general internist by training, Dr. Logio has a track record of interprofessional collaboration, including authorship of on-line modules on the core concepts of patient safety for healthcare providers. She has a national reputation in innovative curriculum in graduate medical education and faculty development around leadership. She spearheaded the digital curriculum available to residents on their iPads, which led to being designated as an Apple Distinguished Education Program for her creative work. As an Assistant Dean of Faculty Development, she serves as the Director of the Leadership in Academic Medicine Program (LAMP) at Weill Cornell Medical College for junior faculty and coordinates important offerings to help faculty thrive in their roles. Dr. Logio is the co-recipient of the 2016 Clinical Care Innovation Challenge Award from the Association of American Medical Colleges.





Robert S. Brown, Jr., M.D., MPH

Vice Chair, Transitions of Care, Department of Medicine
Clinical Chief, Division of Gastroenterology and Hepatology



Dr. Robert S. Brown, Jr. is the Gladys and Roland Harriman Professor of Medicine and Clinical Chief of the Division of Gastroenterology and Hepatology, as well as Vice Chair of Transitions of Care for the Department of Medicine. Dr. Brown is also the Director of the Center for Liver Disease and Transplantation at NewYork-Presbyterian Hospital. He has been part of the liver transplant effort at Weill Cornell part-time since 1999 and joined the faculty full-time in 2015. The liver transplant program gained Medicare approval in its first year and is on pace to start living donor liver transplantation and to reach 50 transplants per year. Dr. Brown is heavily involved in clinical research. He received his B.A. from Harvard College, M.D. from New York University, and his MPH from the Graduate School of Public Health, University of California, Berkeley. He completed his internship in medicine at Beth Israel Hospital, Boston, and a fellowship in gastroenterology and hepatology at the University of California, San Francisco. An internationally recognized expert in liver disease and liver transplantation, he has co-authored more than 150 peer-reviewed articles mostly dedicated to viral hepatitis and liver transplantation. He is an Associate Editor for *Hepatology* and *Gastroenterology and Hepatology* and published a book, *Common Liver Diseases and Transplantation: An Algorithmic Approach to Work-up and Management*. Dr. Brown is the recipient of a Young Investigator Award from the American Society of Transplant Physicians, the Senior Attending Teacher Award from Columbia University Medical Center, and the American Liver Foundation New York Chapter's Physician of the Year.

Susana R. Morales, M.D.

Vice Chair for Diversity

Dr. Susana Morales serves as the Vice Chair for Diversity in the Weill Department of Medicine. An Associate Professor of Clinical Medicine, Dr. Morales joined the Weill Cornell Medicine faculty in 1998 and is the Associate Director of the Housestaff Training Program in Internal Medicine. She obtained her M.D. from the Columbia University College of Physicians and Surgeons, and completed residency training in Internal Medicine at the Presbyterian Hospital of the City of New York. In the Division of General Medicine at Columbia Presbyterian Medical Center, Dr. Morales had served as Assistant Division Director for Education and Training. She has served as a member of the governing Council of the Society of General Internal Medicine (SGIM) and on the Advisory Boards of the Commonwealth Fund's "Bettering the Health of Minority Americans" program and the National Hispanic Medical Association. She is also a board member of both the United Hospital Fund and the Latino Commission on AIDS and has served on the NYS Council on Graduate Medical Education. Her honors include: J. James Smith Memorial Award (presented annually by the Weill Cornell house staff), National Medical Fellowships Community Service Award, and "Senior List" (selected by four graduating Weill Cornell Medical College classes). In 2013, Dr. Morales received the Pioneers in Diversity/Bruce Laine Ballard M.D. Award for Excellence in Mentoring, presented by the Office of Faculty Diversity in Medicine and Science, Weill Cornell Medical College. In 2015, she received the prestigious Elnora M. Rhodes SGIM Service Award.





Jennifer Lee, M.D.

Vice Chair for Quality and Patient Safety



Dr. Jennifer I. Lee serves as Vice Chair for Quality and Patient Safety (QPS) in the Weill Department of Medicine. An Associate Professor of Clinical Medicine and a hospitalist in the Division of General Internal Medicine, Dr. Lee's focus is the education of students, residents and faculty in quality improvement and safety science to ensure high quality, high value care delivery for patients in both the inpatient and outpatient settings. Her collaborations with the NewYork-Presbyterian Hospital's Division of Quality and Patient Safety, Weill Cornell Medicine Physician Organization QPS, and Weill Department of Medicine aim to align improvement efforts across the institution. She designed and co-chairs the Quality Improvement/Patient Safety (QIPS) committee and spearheaded the launch of an advanced QI faculty development program in an effort to develop a pathway for promotion for junior faculty through academic achievement in QI. Board certified in internal medicine and pediatrics, Dr. Lee earned her M.D.

degree from the State University of New York Buffalo School of Medicine and Biomedical Sciences, and completed her combined Internal Medicine and Pediatrics Residency at Mount Sinai Medical Center in New York City. She has completed training through Greater New York Hospital Association/United Hospital Fund's Clinical Quality Fellowship Program and Institute for Healthcare Improvement's Improvement Advisor professional development program among others. Her research interests include reducing readmissions, improving multidisciplinary care transitions and high value care. She has shared her work in QI education and readmissions at outside institutions on expert panels and grand rounds. She was awarded the AAMC Learning Health Systems Champion Research Award in 2014 and featured as the Research on Care Community's Member spotlight.

Judy Tung, M.D.

Chair of the Department of Medicine at NYP/Lower Manhattan Hospital

Dr. Judy Tung is the Chair of the Department of Medicine at the NewYork-Presbyterian/Lower Manhattan Hospital (NYP/LMH). She is also Section Chief of Ambulatory Medicine in the Division of General Internal Medicine. Dr. Tung obtained her M.D. from the Albert Einstein College of Medicine of Yeshiva University in 1997 and completed her internal medicine residency training at the University of California, San Francisco in 2000. She served for one year as a Chief Resident in Primary Care Internal Medicine at New York University before joining the faculty at NewYork-Presbyterian Hospital/Weill Cornell Medical College in 2001. Dr. Tung served as the Director of Weill Cornell Internal Medicine Associates (WCIMA) and as Interim Chief of the Division of Internal Medicine from 2009 to 2016. She has also held many other leadership positions at Weill Cornell, including Director of the Primary Care Residency, Associate Director of the Internal Medicine Residency, and Associate Chair of Educational Affairs. As a respected educator, Dr. Tung has received a J. James Smith Teacher of the Year Award, a Primary Care Teaching Excellence Award, and she is on the Dean's List for teaching excellence. A leading expert in general internal medicine, Dr. Tung has spoken nationally on innovative models of primary care, including the Hospital Medical Home and the ambulatory teaching practice. Additionally, she is a champion for faculty development and co-teaches the Leadership in Academic Medicine Program (LAMP). Dr. Tung's life's work is the cultivation of individuals to their highest potential.





Joseph Cooke, M.D.

Chairman of Medicine at NYP/Queens
Vice Chair, Weill Department of Medicine



Dr. Joseph T. Cooke serves as the Chairman of the Department of Medicine at NewYork-Presbyterian/Queens and as Vice Chairman of the Weill Department of Medicine. Beginning with internship and residency, Dr. Cooke has had numerous roles in his 30 years at NewYork-Presbyterian Hospital/Weill Cornell Medicine. Before joining NewYork-Presbyterian/Queens, Dr. Cooke, an Associate Professor of Clinical Medicine and Public Health, was the department’s Chief of the Division of Pulmonary and Critical Care Medicine, Chairman of the General Faculty Council, and Chief Quality and Patient Safety Officer for the NewYork-Presbyterian Hospital/Weill Cornell Medical Center. Board certified in internal medicine, pulmonary disease, and critical care medicine, Dr. Cooke is a fellow of the American College of Chest Physicians and the American College of Physicians. He earned an undergraduate degree in Biology with honors from New York University and obtained his M.D. from SUNY Downstate. He and Dr. Vlad Kvetan founded and co-chaired the Critical Care Leadership Network of GNYHA (2006-2009). He continues to serve on the Medical Advisory Board for the New York Organ Donation Network, and has previously served on the Institute of Medicine’s subcommittee on organ donation after cardiac death. In addition to earning numerous teaching awards at Weill Cornell, Dr. Cooke has been honored with the NYPH Physician of the Year Award, the New York Weill Cornell Center Alumni Council Award for Outstanding Service, and the Lorraine Tredge Award from HHC for leadership in quality and patient safety. At the 2008 HRSA National Learning Congress, he was named one of 11 national champions for his work in organ donation for NewYork-Presbyterian Hospital/Weill Cornell Medical Center.

Thomas A. McGrath, MBA

Chief Administrative Officer
Weill Department of Medicine

Thomas A. McGrath, MBA, is the Chief Administrative Officer for the Weill Department of Medicine. Mr. McGrath directs administrative and business activities within the department, including finance, accounting, research administration, clinical operations, capital planning, ITS, academic appointments, and education. Before joining Weill Cornell, Mr. McGrath served as Chief Operating Officer at the University of Miami Health System, Director of Finance and Administration for the Department of Medicine at Stanford University, and Vice President and UCH Officer of the Comer Children’s Hospital at The University of Chicago. He holds a B.A. and an M.B.A. from the University of Illinois.





Leadership News

Dr. Gudi Appointed to Program Director of the Internal Medicine Residency Training Program



In 2017, Dr. Kirana Gudi, an Assistant Professor of Medicine in the Division of Pulmonary and Critical Care Medicine, was appointed to Program Director of the Internal Medicine Residency Training Program. Dr. Gudi obtained her M.D. from Weill Cornell Medical College and then completed both her residency training in Internal Medicine and fellowship training at NewYork-Presbyterian Hospital/Weill Cornell Medical Center. After her fellowship training, she served for one year as the Chief Resident in the Weill Department of Medicine before joining the faculty at NewYork-Presbyterian Hospital/Weill Cornell Medical College in 2010. Dr. Gudi had served as the Associate Program Director of the Residency Training Program in Internal Medicine before being named Program Director. She maintains an active

outpatient pulmonary practice and also attends on the Inpatient Pulmonary Consult and the ICU Consult services. A passionate advocate of medicine and medical education, Dr. Gudi established and has co-directs the Internal Medicine Residency Program's Simulation Curriculum.

Honors & Awards

Research Awards

The Department of Medicine Annual Investigators Award

This award is presented annually to members of the Department of Medicine below the rank of professor who perform on outstanding levels in the areas of clinical and/or basic biomedical research. Supported by the Michael Wolk Foundation.

Winner

Francine E. Garrett-Bakelman, M.D., Ph.D.
Topic: Divergent Dynamics of Epigenetic and Genetic Heterogeneity in Relapsed Acute Myeloid Leukemia
Division: Hematology & Medical Oncology

Runners-Up

Randy S. Longman, M.D., Ph.D.
Topic: Functional characterization of IgA-targeted E. coli in Crohn's Disease-associated Spondyloarthritis Links Mucosal Immunity with Systemic Inflammation
Division: Gastroenterology & Hepatology

Heather W. Stout-Delgado, Ph.D.
Topic: Impact of Enhanced ER Stress on NLRP3 Function during Streptococcus Pneumoniae Infection in Aged Lung
Division: Pulmonary & Critical Care Medicine

The David E. Rogers Memorial Research Award

This award was established in 1995 to encourage medical residents to continue their investigative research in internal medicine. Four finalists are chosen to present their research at Medical Grand Rounds. The award was founded and is chaired by Holly S. Andersen, M.D., Director of Education and Outreach at The Ronald O. Perelman Heart Institute (and Associate Attending Physician at NewYork-Presbyterian Hospital and Associate Professor of Clinical Medicine at Weill Cornell Medical College) and is funded by the Holly Andersen Heart Foundation.

Winner

Nicole Shen, M.D.
Topic: Cost-Effectiveness of Probiotic Use to Prevent Clostridium Difficile Infection (CDI) In Hospitalized Adults Taking Antibiotics: Do Policy Conclusions Vary By Age Cohort?

Runner Up

Joanna Rhodes, M.D.
Topic: Haplocord Transplantation vs. Unrelated Donor Stem Cell Transplantation in Patient with AML/ MDS Over 50 Years Old

Finalists

Scott Purga, M.D.
Topic: Left Atrial Diameter as a Predictor of World Health Organization Group Two Pulmonary Hypertension Severity

Michael Tanoue, M.D.
Topic: Relationship between Abnormal P-Wave Terminal Force In Lead V1 and Left Ventricular Diastolic Dysfunction in Hypertensive Patients: The Life Study

The Department of Medicine Annual Fellow in Research Award

Initiated in 2002, the Fellow Award in Research is presented annually to fellows within the Weill Department of Medicine who have presented outstanding research.

Winner

Michael T. Bender, M.D.
Topic: Modulation of Annexin A2 Expression in Human Sepsis
Division: Pulmonary & Critical Care Medicine

Finalists

Daniel Jones, M.D.
Topic: Effect of Disruption of the Host Microbiome on Ventilator-Induced Lung Injury Associated Inflammation Activation
Division: Pulmonary & Critical Care Medicine

Eleni Nackos, M.D.
Topic: Targeting the Tumor Microenvironment: A Phase II Study of Copper-Depletion Using Tetrathiomolybdate (TM) in Patients (Pts) with Breast Cancer (BC) At High Risk For Recurrence
Division: Hematology & Medical Oncology

Visiting Professors

Dr. Robert C. and Veronica Atkins
Foundation Curriculum in Metabolic
Disease Lecture
September 28, 2016
Neal Barnard, M.D.
Physicians Committee for Responsible
Medicine

B.H. Kean - Boxer Family Foundation
Lecture in Global Health
October 19, 2016
H. Clifford Lane, M.D.
National Institute of Allergy and
Infectious Diseases

Ralph L. Nachman, M.D. Distinguished
Visiting Professor
November 16, 2016
Katherine High, M.D.
Spark Therapeutics

**Arthur Ashe Endowment-Christopher L.
Barley, M.D.** Lecturer
December 14, 2016
John T. Brooks, M.D.
U.S. Centers for Disease Control and
Prevention

Endowed Professorships & Chairs

Dr. Ronald D. Adelman
Emilie Roy Corey Professor in Geriatrics
and Gerontology

Dr. Jennifer A. Downs
Friedman Family Research Scholar in
Pediatric Infectious Diseases

Dr. Louis J. Aronne
Sanford I. Weill Professor of Metabolic
Research

Dr. Phyllis August
Ralph A. Baer Professor of Medical
Research

Dr. Carl Blobel (HSS)
Virginia F. and William R. Salomon Chair
in Musculoskeletal Research

Dr. Jon David Blumenfeld
(Rogosin Institute)
Maxwell Professor of Clinical Medicine

Dr. Robert Brown Jr.
Gladys and Roland Harriman Professor
of Medicine

Dr. Lewis C. Cantley
Meyer Directorship Endowed Chair

Dr. Mary E. Charlson
William T. Foley Distinguished Professor
in Medicine

Dr. Augustine M.K. Choi
Sanford I. Weill Chairman of the
Department of Medicine
(ended Jan 2017)
Stephen and Suzanne Weiss Dean, Weill
Cornell Medicine (as of Jan 2017)

Dr. David E. Cohen
Vincent Astor Distinguished Professor of
Medicine

Dr. Mary K. Crow (HSS)
Joseph P. Routh Professor of Rheumatic
Diseases in Medicine
Benjamin M. Rosen Chair in Immunology
and Inflammation Research

Dr. Ronald G. Crystal
The Bruce Webster Professor of Internal
Medicine

Dr. Andrew J. Dannenberg
Henry R. Erle, M.D.-Roberts Family
Professor of Medicine

Dr. Orli R. Etingin
Lisa and Sanford B. Ehrenkranz Professor
in Women's Health

Dr. Joseph J. Fins
E. William Davis, M.D. Professorship of
Medical Ethics

Dr. Richard R. Furman
Morton Coleman M.D. Distinguished
Associate Professor of Medicine

Dr. Laurie H. Glimcher (through end of
May 2016)
The Stephen and Suzanne Weiss Dean

Dr. Antonio M. Gotto, Jr.
Provost for Medical Affairs and Dean
Emeritus

Dr. Roy M. Gulick
Rochelle Belfer Professorship

Dr. Barbara Hempstead
O. Wayne Isom Professor of Medicine

Dr. Julianne L. Imperato-McGinley
The Abby Rockefeller Mauzé Distinguished
Professorship in Endocrinology in
Medicine

Dr. Lionel B. Ivashkiv (HSS)
David H. Koch Chair for Arthritis and
Tissue Degeneration Research
Richard L. Menschel Research Chair

Dr. Elizabeth Leef Jacobson
Ehrenkranz Family/Orli R. Etingin, M.D.
Associate Professor in Women's Health

Dr. Warren D. Johnson, Jr.
B. H. Kean Professor of Tropical Medicine

Dr. Yoon Kang
Richard P. Cohen, M.D. Associate Professor
of Medical Education

Dr. Harvey Klein
The William S. Paley Professor of Clinical
Medicine

Dr. Gary Koretzky

Frank H.T. Rhodes Distinguished Professor
in Cardiovascular Biology and Genetics

Dr. Mark S. Lachs

The Irene F. & I. Roy Psaty Distinguished
Professor of Clinical Medicine

Dr. John P. Leonard

Richard T. Silver Distinguished Professor
of Hematology and Medical Oncology

Dr. Bruce B. Lerman

Hilda Altschul Master Professor of
Medicine

Dr. Steven M. Lipkin (as of April 2016)

Gladys and Roland Harriman Professor of
Medicine

Dr. Lia S. Logio

Herbert J. and Ann L. Siegel Distinguished
Professor of Medicine

Dr. C. Ronald MacKenzie (HSS)

C. Ronald MacKenzie, M.D., Chair in
Ethics and Medicine

Dr. Fernando J. Martinez

Gladys and Roland Harriman Professor in
Medicine (ended September 2016)
Bruce Webster Professor of Internal
Medicine (as of October 2016)

Dr. Bassem M. Masri

Daisy and Paul Soros/Recanati-Kaplan
Family Assistant Professor in Preventive
Cardiology

Dr. Ari Melnick

Gebroe Family Professor of Hematology-
Oncology

Dr. Henry W. Murray

Arthur R. Ashe, Jr. Professor of Medicine

Dr. David M. Nanus

Mark W. Pasmantier Professor of
Hematology and Oncology in Medicine

Dr. Stephen A. Paget (HSS)

Stephen A. Paget, M.D., Chair in
Rheumatology

Dr. Jean William Pape

Howard and Carol Holtzmann
Professor in Clinical Medicine

Dr. Alessandra B. Pernis (HSS)

Peter Jay Sharp Chair in Lupus
Research

Dr. Geoffrey S. Pitt

The Ida and Theo Rossi Distinguished
Professor of Medicine

Dr. Holly G. Prigerson

Irving Sherwood Wright Professor in
Geriatrics

Dr. M. Carry Reid

Irving Sherwood Wright Associate
Professor in Geriatrics and
Gerontology

Dr. Linda Russell

The Anne and Joel Ehrenkranz Chair in
Perioperative Medicine

Dr. Monika Safford

John J. Kuiper Professor of Medicine

Dr. Jane E. Salmon (HSS)

Collette Kean Research Chair

Dr. Ellen J. Scherl

Jill Roberts Associate Professor of
Inflammatory Bowel Disease

Dr. Sergio Schwartzman (HSS)

Franchellie M. Cadwell Chair

Dr. Manish Shah

Bartlett Family Associate Professor of
Gastrointestinal Oncology

Dr. Eugenia L. Siegler

Mason Adams Professor of Geriatric
Medicine

Dr. Harsimran Singh

David S. Blumenthal Assistant Professor of
Medicine

Dr. Kotha Subbaramaiah

Jack Fishman Professor of Cancer
Prevention

Dr. Manikkam Suthanthiran

Stanton Griffis Distinguished Professor of
Medicine

Dr. Scott Tagawa

Richard A. Stratton Associate Professorship
in Hematology and Oncology

Dr. Harold E. Varmus

Lewis Thomas University Professor of
Medicine

Clinical Scholars

The Clinical Scholar Endowment is designed to provide outstanding junior faculty members in the Department of Medicine with financial support early in their careers. Support is provided specifically to help young physicians balance patient care with research and teaching. The awards allow junior faculty to make a commitment to academic medicine and, as a result, support promising new talent.

Dr. Eleni Andreopoulou

Madeline and Stephen Anbinder Clinical
Scholar in Hematology/Oncology

Dr. Leandro Cerchietti

Raymond and Beverly Sackler Research
Scholar

Dr. Jennifer Downs

Friedman Research Scholar

Dr. James E. Ip

Bruce B. Lerman Clinical Scholar

Dr. Robert J. Kaner

James P. Smith M.D. Scholar

Dr. Maria G. Karas

Michael Wolk Heart Foundation Clinical Scholar in Cardiology

Dr. Laura Kirkman

William Randolph Hearst Foundation Clinical Scholar in Microbiology & Infectious Diseases

Dr. Sonal Kumar

Anne and Ken Estabrook Clinical Scholar in Gastroenterology

Dr. Veronica M. LoFaso

Roland Balay Clinical Scholar

Dr. Peter Martin

Charles, Lillian, and Betty Neuwirth Clinical Scholar in Oncology

Dr. Margaret L. McNairy

Bonnie Johnson Sacerdote Clinical Scholar

Dr. Sonal Mehta

Joachim Silberman Family Clinical Scholar in Geriatric Palliative Care

Dr. Ana Molina (as of February 2017)

Anne Moore M.D. Clinical Scholar in Hematology-Oncology

Dr. Allyson J. Ocean (ended 2016)

Anne Moore M.D. Clinical Scholar in Hematology-Oncology

Dr. Karin-Elizabeth Ouchida

Joachim Silberman Family Clinical Scholar in Geriatrics

Dr. Sharda D. Ramsaroop

Joachim Silberman Family Clinical Scholar

Dr. Selin Somersan-Karakaya

Nan and Stephen Swid Research Scholar

Dr. Amir Soumekh

Linda Horowitz Cancer Research Foundation Clinical Scholar in Gastroenterology

Teaching Awards

Class of 1952 Resident Physician Prize

Dr. Ayman Al Jurdi

The House Staff Teaching Award

Dr. Ayman Al Jurdi
Dr. Brian Salata

The Leonard P. Tow Humanism in Medicine Award

Dr. Ernie L. Esquivel

The Senior List

Dr. David Berlin
Dr. Todd Cutler
Dr. Byron Demopoulos
Dr. Vishal Dodia
Dr. Brian Eiss
Dr. Ernie Esquivel
Dr. Yoon Kang
Dr. Anthony Ogedegbe

First Year Teaching Award

Dr. Robert J. Kim

Volunteer Clinical Faculty Award of Alpha Omega Alpha

Dr. Jason Kendler

The Elliot Hochstein Teaching Award

Dr. Anthony Ogedegbe

The National Academy of Medicine (NAM)

Dr. Jeremiah A. Barondess (NY Academy of Medicine)
Dr. Lewis C. Cantley
Dr. R. Gordon Douglas, Jr.
Dr. Joseph J. Fins
Dr. Laurie H. Glimcher (Dana Farber)
Dr. Antonio M. Gotto, Jr.
Dr. Gary A. Koretzky
Dr. Ralph L. Nachman
Dr. Carl F. Nathan
Dr. Jean W. Pape
Dr. Andrew I. Schafer
Dr. David J. Skorton
Dr. Harold E. Varmus

Association of American Physicians

Dr. Jeremiah A. Barondess (NY Academy of Medicine)
Dr. Jose Baselga (MSKCC Affiliate)
Dr. Carl P. Blobel (HSS)
Dr. Mary E. Charlson
Dr. Augustine M.K. Choi
Dr. Bayard D. Clarkson (MSKCC Affiliate)
Dr. Ronald G. Crystal
Dr. Andrew J. Dannenberg
Dr. R. Gordon Douglas, Jr.
Dr. James A. Fagin (MSKCC Affiliate)
Dr. Michael Glickman (MSKCC Affiliate)
Dr. Laurie H. Glimcher (Dana Farber)
Dr. Antonio M. Gotto, Jr.
Dr. Roy M. Gulick
Dr. Katherine A. Hajjar (secondary apt)
Dr. Barbara L. Hempstead
Dr. Alan N. Houghton (MSKCC)
Dr. Julianne L. Imperato-McGinley
Dr. Lionel B. Ivashkiv (HSS)
Dr. Warren D. Johnson, Jr.
Dr. Attallah Kappas (Rockefeller Affiliate-Emeritus)
Dr. Gary Koretzky
Dr. Ione Kourides (Voluntary)

Dr. Mary Jeanne Kreek (Rockefeller Affiliate)
Dr. Paul A. Marks (MSKCC Affiliate)
Dr. Fernando Martinez
Dr. Ari M. Melnick
Dr. Henry W. Murray
Dr. Ralph L. Nachman
Dr. David M. Nanus
Dr. Carl Nathan (secondary appt)
Dr. Kenneth Offit (MSKCC Affiliate)
Dr. Eric G. Pamer (MSKCC Affiliate)
Dr. Cam Patterson
Dr. Geoffrey Pitt
Dr. Marcus M. Reidenberg
Dr. Neal Rosen (MSKCC Affiliate)
Dr. Jane E. Salmon (HSS Affiliate)
Dr. Charles L. Sawyers (MSKCC Affiliate)
Dr. Andrew I. Schafer
Dr. David A. Scheinberg (MSKCC Affiliate)
Dr. Manikkam Suthanthiran
Dr. Marcel R.M. van den Brink (MSKCC Affiliate)
Dr. Thomas J. Walsh
Dr. Babette B. Weksler
Dr. Marc E. Weksler
Dr. Sidney J. Winawer (MSKCC Affiliate)
Dr. Jedd Wolchok (MSKCC Affiliate)
Dr. Alastair J. J. Wood (Courtesy)

The American Society for Clinical Investigation

Dr. Abdul B. Abou-Samra (Hamad Medical Corporation Affiliate)
Dr. Jose Baselga (MSKCC Affiliate)
Dr. Richard S. Bockman (HSS Affiliate)
Dr. Renier J. Brentjens (MSKCC Affiliate)
Dr. Augustine M.K. Choi
Dr. Bayard D. Clarkson (MSKCC Affiliate)
Dr. Ronald G. Crystal
Dr. Andrew Dannenberg

Dr. R. Gordon Douglas, Jr. (Emeritus)
Dr. James A. Fagin (MSKCC Affiliate)
Dr. Daniel W. Fitzgerald
Dr. Edward Paul Gelmann (Columbia Affiliate)
Dr. Michael S. Glickman (MSKCC Affiliate)
Dr. Laurie H. Glimcher (Dana Farber)
Dr. Antonio M. Gotto, Jr.
Dr. Roy M. Gulick
Dr. Katharine A. Hajjar
Dr. Barbara L. Hempstead
Dr. Tobias M. Hohl (MSKCC Affiliate)
Dr. Peter R. Holt (Rockefeller Affiliate)
Dr. Alan N. Houghton (MSKCC Affiliate)
Dr. James J.-D. Hsieh (MSKCC Affiliate)
Dr. Katherine C. Hsu (MSKCC Affiliate)
Dr. Lionel B. Ivashkiv
Dr. Eric A. Jaffe (Adjunct)
Dr. Attallah Kappas (Rockefeller Affiliate – Emeritus)
Dr. Richard N. Kolesnick (MSKCC Affiliate)
Dr. Gary Koretzky
Dr. Ione A. Kourides (Voluntary)
Dr. Ola C. Landgren (MSKCC Affiliate)
Dr. Jeffrey C. Laurence
Dr. John P. Leonard
Dr. Ross L. Levine (MSKCC Affiliate)
Dr. Steven M. Lipkin
Dr. Paul A. Marks (MSKCC Affiliate)
Dr. Ari M. Melnick
Dr. Henry W. Murray
Dr. Ralph L. Nachman
Dr. David M. Nanus
Dr. Carl F. Nathan
Dr. Kenneth Offit (MSKCC Affiliate)
Dr. Eric G. Pamer (MSKCC Affiliate)
Dr. Cam Patterson
Dr. Alessandra B. Pernis (HSS Affiliate)
Dr. David N. Posnett (Emeritus)
Dr. Shahin Rafii
Dr. Marcus M. Reidenberg
Dr. Kyu Y. Rhee

Dr. Arleen B. Rifkind
Dr. Charles M. Rudin (MSKCC Affiliate)
Dr. Michel Sadelain (MSKCC Affiliate)
Dr. Charles L. Sawyers (MSKCC Affiliate)
Dr. Andrew I. Schafer
Dr. David A. Scheinberg (MSKCC Affiliate)
Dr. Kendall A. Smith
Dr. David Solit (MSKCC Affiliate)
Dr. Manikkam Suthanthiran
Dr. Marcel R.M. van den Brink (MSKCC Affiliate)
Dr. Alan M. Weinstein
Dr. Babette B. Weksler
Dr. Marc E. Weksler
Dr. Jedd Wolchok (MSKCC Affiliate)
Dr. Alastair J.J. Wood (Courtesy)

Castle Connolly Top Doctors

(This list is based on an online search of Castle Connolly America's Top Doctors conducted as of February 2017. It does not reflect Castle Connolly metro listings. This list includes physicians who hold titles in the Weill Department of Medicine.)

Allergy & Immunology

Dr. Clifford W. Bassett
Dr. Daniel A. Burton
Dr. Michael J. Chandler

Cardiac Electrophysiology

Dr. Jim Cheung
Dr. James Ip
Dr. Bruce Lerman
Dr. Steven M. Markowitz
Dr. David J. Slotwiner

Cardiovascular Disease

Dr. Olakunle Akinboboye (NYP/Queens)
Dr. Holly Andersen
Dr. James A. Blake
Dr. David Blumenthal
Dr. Robert D. Campagna
Dr. Adam Deutsch
Dr. Richard B. Devereux
Dr. Timothy C. Dutta
Dr. Kenneth W. Franklin
Dr. Richard M. Fuchs
Dr. Harvey L. Goldberg
Dr. Kirsten O. Healy
Dr. Evelyn Horn
Dr. John T. Hsueh (NYP/Queens)
Dr. Lawrence A. Inra
Dr. Mazen O. Kamen
Dr. Todd C. Kerwin (NYP/Queens)
Dr. Robert Kim
Dr. Paul Kligfield
Dr. Karla M. Kurrelmeyer (Houston Methodist)
Dr. John Mahmarian (Houston Methodist)
Dr. Bassem M. Masri
Dr. Ellen Mellow
Dr. David H. Miller
Dr. Richard L. Mueller

Dr. Sherif F. Nagueh (Houston Methodist)
Dr. Martin R. Post
Dr. Craig M. Pratt (Houston Methodist)
Dr. Shuja Qadir (NYP/Queens)
Dr. Miguel A. Quinones (Houston Methodist)
Dr. Mary Roman
Dr. Howard S. Rubin (Houston Methodist)
Dr. Steven J. Siskind (NYP/Queens)
Dr. Allison Spatz
Dr. Theodore Tyberg
Dr. Michael J. Wolk
Dr. Hooman Yaghoobzadeh
Dr. William A. Zoghbi (Houston Methodist)

Endocrinology, Diabetes, and Metabolism

Dr. Richard Bockman
Dr. Dale J. Hamilton (Houston Methodist)
Dr. Barry J. Klyde

Dr. Daniel L. Lorber (NYP/Queens)
Dr. Andrew J. Martorella
Dr. Steven M. Petak (Houston Methodist)
Dr. Richard J. Robbins (Houston Methodist)
Joseph M. Tibaldi (NYP/Queens)

Family Medicine

Dr. Thomas G. Molnar (NYP/Queens)
Dr. George J. Kessler

Gastroenterology

Dr. Bincy P. Abraham (Houston Methodist)
Dr. Paul M. Basuk
Dr. Karl T. Bednarek
Dr. Robert S. Brown, Jr.
Dr. Michael C. Cantor
Dr. Bradley A. Connor
Dr. Robert B. Cooper
Dr. Gulchin A. Ergun (Houston Methodist)
Dr. Howard Goldin
Dr. Michel Kahaleh
Dr. Arnon Lambroza
Dr. James D. Lax
Dr. Susan Lucak
Dr. Franklin Marsh, Jr.
Dr. Paul Miskovitz
Dr. Jerry Nagler

Dr. Michel e. Nussbaum (NYP/Queens)
Dr. James A. Rand (NYP/Queens)
Dr. Moshe Rubin (NYP/Queens)
Dr. Ellen Scherl
Dr. Michael J. Schmerin
Dr. Felice Schnoll-Sussman
Dr. Meyer N. Solny
Dr. Arnold L. Weg
Dr. Gil Weitzman

Geriatric Medicine

Dr. Ronald D. Adelman
Dr. Mark Lachs
Dr. Bharathi Raman
Dr. Eugenia L. Siegler
Dr. George E. Taffet (Houston Methodist)

Hematology

Dr. Maria De Sancho
Dr. John P. Leonard
Dr. Ruben Niesvizky
Dr. Gail J. Roboz
Dr. Andrew Schafer
Dr. Koen W. Van Besien
Dr. David J. Wolf

Hospice & Palliative Medicine

Dr. Cynthia X. Pan (NYP/Queens)

Infectious Disease

Dr. Barry Brause
Dr. Ashley L. Drews (Houston Methodist)
Dr. Victor N. Fainstein (Houston Methodist)
Dr. Marshall J. Glesby
Dr. David L. Helfgott
Dr. Jonathan L. Jacobs
Dr. Jason S. Kendler
Dr. Chester W. Lerner
Dr. Henry W. Murray
Dr. Howard E. Rosenberg
Dr. David S. Rubin
Dr. Sorana Segal-Maurer (NYP/Queens)
Dr. Paul T. Smith
Dr. Rosemary Soave
Dr. Ole Vilemeyer

Internal Medicine

Dr. Monica Altman
Dr. Louis J. Aronne
Dr. Christopher L. Barley
Dr. Thomas L. Baxter III (Houston Methodist)
Dr. Allan E. Beyda (NYP/Queens)
Dr. Richard P. Cohen
Dr. Symra A. Cohn
Dr. Arturo Constantiner
Dr. Ward Cunningham-Rundles
Dr. John F. Eichelberger (Houston Methodist)
Dr. Howard B. Eison
Dr. Orli Etingin
Dr. Laura L. Fisher
Dr. Marina Gafanovich
Dr. Delfino F. Garcia III (Houston Methodist)
Dr. Flavia A. Golden
Dr. Daniel Goldin
Dr. Catherine C. Hart
Dr. Richard A. Jackson (Houston Methodist)
Dr. Matteethra C. Jacob (Houston Methodist)
Dr. Alan B. Kadet
Dr. Keith LaScalea
Dr. Meredith Lash-Dardia
Dr. Michael R. Leonard
Dr. Margaret Lewin
Dr. George Liu
Dr. Bruce D. Logan
Dr. Samuel J. Mann
Dr. Jennifer Meller
Dr. Jennifer K. Meyer (Houston Methodist)
Dr. Mark L. Meyer
Dr. Thomas Nash
Dr. Deena J. Nelson
Dr. Sonal Parr
Dr. Mark S. Pecker
Dr. Arthur I. Radin
Dr. Jill M. Rieger
Dr. Anthony Somogyi (NYP/Queens)
Dr. Adam Stracher
Dr. Jessica Weiser-McCarthy
Dr. Wendy S. Ziecheck

Interventional Cardiology

Dr. Douglas R. Bree (Houston Methodist)
Dr. Neal Kleiman (Houston Methodist)
Dr. Shing-Chiu Wong

Medical Oncology

Dr. Himisha Beltran
Dr. Jenny Chang (Houston Methodist)
Dr. Morton Coleman
Dr. Engracio P. Cortes (NYP/Queens)
Dr. Julian A. Decter
Dr. Robert Gelfand
Dr. Yashar Hirshaut
Dr. Ana Molina
Dr. Anne Moore
Dr. David M. Nanus
Dr. Mark W. Pasmantier
Dr. Bonnie S. Reichman
Dr. Joseph T. Ruggiero
Dr. Scott T. Tagawa
Dr. Linda T. Vahdat

Nephrology

Dr. Phyllis August
Dr. Jon D. Blumenfeld
Dr. Stephen T. Brennan (Houston Methodist)
Dr. Chaim Charytan (NYP/Queens)
Dr. James Chevalier
Dr. Marilyn Galler (NYP/Queens)
Dr. Juan J. Olivero, Jr. (Houston Methodist)
Dr. Stuart Saal
Dr. Bruce S. Spinowitz (NYP/Queens)
Dr. John C. Wang

Pulmonary Disease

Dr. Lester W. Blair
Dr. Brian D. Gelbman
Dr. Daniel M. Libby
Dr. Sunil Nath (NYP/Queens)
Dr. Michael S. Niederman
Dr. Abraham Sanders
Dr. Sidney K. Stein
Dr. Dana Zappetti

Rheumatology

(Hospital for Special Surgery)

Dr. Juliet B. Aizer
Dr. Dalit Ashany
Dr. Anne R. Bass
Dr. Doruk Erkan
Dr. Theodore R. Fields
Dr. Allan Gibofsky
Dr. Susan M. Goodman
Dr. C. Ronald MacKenzie
Dr. Steven K. Magid
Dr. Joseph A. Markenson
Dr. Stephen Paget
Dr. Edward Parrish
Dr. Linda Russell
Dr. Lisa R. Sammaritano
Dr. Sergio Schwartzman
Dr. Sandra L. Sessoms (Houston Methodist)
Dr. Girish M. Sonpal (NYP/Queens)
Dr. Robert Spiera
Dr. Richard Stern
Dr. Hendricks H. Whitman III
Dr. Arthur M. F. Yee

Sleep Medicine

Dr. Dianne M. Augelli
Dr. Ana C. Krieger

(All honors, awards, and titles contained in this section reflect calendar year 2016, except where noted.)



Division Profiles

Weill Department of Medicine





Bruce B. Lerman, M.D.
Chief, Maurice R. and Corinne
P. Greenberg Division of
Cardiology

Hilda Altschul Master
Professor of Medicine

Professor of Medicine
Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian
Hospital

The Maurice R. and Corinne P. Greenberg Division of Cardiology is a leader in cardiovascular research, education, and clinical care. The division's mission is to remain at the forefront of scientific and technological developments that are revolutionizing cardiology and to translate these findings to the clinical bedside. Our internationally renowned programs investigate the basic mechanisms of cardiovascular disease, including the genetics of heart disease, the cellular signals and transcription factors responsible for cardiac development, the transformation and homing of stem cells for myocardial regeneration, and the delineation of the molecular bases for cardiac arrhythmias. Strategies are continually implemented to enhance physical space, expand comprehensive clinical programs and continue our history of cutting-edge research. The division continues to develop and deliver cutting-edge therapies for heart disease and to advance clinical investigation. Expert faculty provide mentoring, training and supervision to medical students, internal medicine residents and fellows in cardiology, preparing them as tomorrow's leaders. The faculty also provide a host of weekly conferences for internal and external colleagues.

The division continues to develop and **deliver cutting-edge therapies** for heart disease and to advance clinical investigation.

From basic science, investigating the mechanisms of arrhythmias and large population-based studies of new diagnostic and therapeutic approaches, to a vast array of cardiovascular conditions and diseases, the focus is on improving patient care. This involves a majority of our faculty and almost all of cardiology fellows-in-training, as well as postdoctoral trainees and graduate and medical students, thus creating a rich intellectual milieu in which trainees develop into experienced investigators.

Clinical services achieve superior outcomes in all areas, from interventional and imaging laboratories, to outpatient consultative and ongoing care. Patient care covers all types of heart and vascular diseases, including, but not limited to, arrhythmias, coronary and peripheral arterial disease, valve disease, the Marfan syndrome and inherited heart diseases, as well as heart failure and transplantation cardiology. To allow immediate treatment of patients presenting in the early stages of a heart attack, there exists 24-hour, in-hospital coverage of the Cardiac Intensive Care Unit, Telemetry and Step-Down Unit and the interventional laboratory. In April 2016, Dr. Mary J. Roman, Professor of Medicine, received the "Hero with a Heart" award at the Marfan Foundation Annual Gala. Most of Dr. Roman's patients have heritable forms of heart disease, including Marfan syndrome, familial aortic aneurysm, and bicuspid aortic valve with associated aortic aneurysm.

Dr. Geoffrey Stuart Pitt, the newly recruited inaugural Director of the Cardiovascular Research Institute (CRVI), has been leading a basic and translational research program focused on cardiovascular diseases and cardiovascular sciences at WCM. Dr. Pitt's research has focused on understanding the structure and function of ion channels and their regulatory subunits in the heart and brain. He has identified several mutations that lead to inherited channel-



opathies, such as ventricular tachycardia and epilepsy, and is developing potential therapies to treat these conditions.

Dr. Bruce B. Lerman, Division Chief, continues to serve on the editorial boards of *Circulation*, *Heart Rhythm*, *The Journal of Cardiac Electrophysiology*, *Pacing and Clinical Electrophysiology* and *The Journal of Innovations in Cardiac Rhythm Management*. Dr. Steven Markowitz serves on the Electrophysiology Committee, American College of Cardiology, and on the editorial boards of *HeartRhythm* and *Journal of Interventional Cardiac Electrophysiology*.

Cardiology Fellowships

- Cardiology: 3-year program that prepares highly qualified candidates for careers in investigative and clinical cardiology (Erica C. Jones, M.D., Program Director)
- Clinical Cardiac Electrophysiology (CCEP): 2-year training fellowship for intensive clinical training in mapping and ablation of complex arrhythmias (Jim W. Cheung, M.D. Program Director)
- Interventional Cardiology: 2-year advanced training fellowship in percutaneous coronary interventions utilizing all currently available technologies (Robert Minutello, M.D., Program Director)
- Advanced Heart Failure and Transplant Cardiology: 1-year training program in the management of the advanced congestive heart failure patient population (Evelyn Horn, M.D., Program Director)

Clinical Epidemiology and Evaluative Sciences Research



Mary E. Charlson, M.D.
Chief, Division of Clinical Epidemiology and Evaluative Sciences Research
Executive Director, Center for Integrative Medicine
William T. Foley
Distinguished Professor of Medicine
Professor of Medicine
Weill Cornell Medical College
Attending Physician
NewYork-Presbyterian Hospital

The Division of Clinical Epidemiology and Evaluative Sciences Research draws upon the talents and experience of a multidisciplinary group of faculty based at Weill Cornell Medical College, Cornell University-Ithaca, and other institutions. Faculty members are experts in qualitative and quantitative research methodology, health services research, clinical epidemiology, medical informatics, decision sciences, health disparities research, community-based participatory research, clinimetrics, outcomes research, behavioral science, and health education. They work together in a series of activities designed to encourage, and systematically support, the development of new research initiatives within, and outside, the division.

Research efforts in the division include a strong track record with the NIH and an ongoing commitment to fostering a new generation of investigators via T32 grants and other opportunities. As leaders in population health research, the division plays a unique role at WCM through its contributions to behavioral, health disparities, and population health, and it has enrolled more than 3,000 patients in clinical research studies. The division provides national leadership in bending the cost curve by implementing innovative and evaluative strategies for population management.

Related areas of investigation include studies to improve clinical outcomes, behavioral science research, research on complex patients with a significant burden

of comorbidity, and comparative effectiveness. In order to stimulate and support new clinical, health services, and outcomes research within and outside the Weill Department of Medicine, the division houses consultative services to investigators on informatics and data management support, as well as graduate training programs in clinical epidemiology and research methodology.

Under the auspices of the SCALE grants, expansion continues in the area of community-based research with Dr. Erica Phillips-Caesar. SCALE's partnerships with several faith-based and community-based organizations in Harlem and the South Bronx have benefited the division's research initiatives on health disparities.



Dr. Charlson (standing far right) with trainees

The division leads in the training of junior investigators. To date, T32 trainees in the division have received more than \$100 million in peer-reviewed funding. Fellows are active in research, having submitted abstracts for the NRSA Annual Trainees Research Conference, and they frequently present nationally: Infectious Diseases Society of America; Society of General Internal Medicine; American College of Surgeons; and American College of Rheumatology.

Faculty in the division continue to publish top tier research papers exploring the relationship between social network characteristics and weight loss in minority adults and the use of small change eating and physical activity behavioral strategies for weight loss.

Health Services Research Fellowship

Mary E. Charlson, M.D.
Program Director

Carol Mancuso, M.D.
Fellowship Program Co-Director

A 2-year training program (T32 AHRQ Fellowship Program) that trains post-residency physicians to conduct methodologically rigorous health services research in a multidisciplinary environment.

Education and Faculty Development

The education mission is alive and well with tremendous growth in our training environment. We continue to articulate our mission as follows:

- To cultivate extraordinary physicians who consistently demonstrate their unwavering dedication to each individual patient in front of them
- To encourage thinking anew about medicine in its science, its art, and its delivery
- To create a lifetime academic home for our medical community members

Faculty Development: The Weill Department of Medicine continues to invest in the faculty to promote their academic success. Fourteen individuals from the department participated this year in the WCMC Leadership in Academic Medicine Program (LAMP), representing nine of the divisions. The LAMP series is led by Dr. Lia Logio and Dr. Judy Tung. We also continue to participate in national faculty development programs as well, including the AAMC Minority Faculty Development Program, the AAMC Mid-career Women Faculty Program, and the AAIM Executive Leadership Program. As Assistant Dean of Faculty Development at Weill Cornell, Dr. Logio offers a variety of interactive workshops to help faculty succeed in their various roles. In the area of point-of-care bedside ultrasound (POCUS), a week-long course has been developed to help faculty become adept at using this tool to enhance the physical exam, diagnostic accuracy, and implementing treatments quickly. The hospital medicine faculty have been instrumental in leading this charge together with the residency program leadership. Drs. Lia Logio and Howard Goldin have continued their series of Basic Science for the Practicing Physicians with a course on Obesity and Metabolism.

Residency: The NewYork-Presbyterian Hospital/Weill Cornell Internal Medicine Residency Program continues its long-standing commitment to training extraordinary physicians and academic scholars. The residency program places a strong emphasis on critical thinking about medicine, as well as maximizing time at the bedside. In the era of duty hours, the program has been innovative in how to deliver the highest quality education and most up-to-date information. The curriculum has recently shifted to a digital playground available on iPads where residents find a treasure trove of multimedia, evidence-based, cutting-edge information to enhance their learning, all completely searchable. iPads as portable devices also augment the bedside discussions with patients where imaging and labs can be shared and explained. A well-developed schedule of core conferences round out resident education with the newest additions, including a morbidity and mortality (M & M) conference on diagnostic error, value in practice to reinforce high-value care, and the always popular senior seminar series where our PGY3s dazzle us with their expertise on a favorite subject.



Lia Logio, M.D.

Herbert J. and Ann L. Siegel
Distinguished Professor of Medicine
Vice Chair for Education
Attending Physician
NewYork-Presbyterian Hospital

The residency program places a strong emphasis on **critical thinking about medicine**, as well as maximizing time at the bedside.



The core research curriculum continues to grow, now reaching 100% of the PGY2 residents. By the end of the two-week course, every resident is well-equipped with a mentor, a project, and a written map to produce scholarship in an area of interest. Dr. Stephen Wilson provides hands-on mentoring as well as the core content on research methods. The number of abstracts, presentations, and manuscripts from resident projects has soared, reaching a new record high.

2016 marked the launch of The Love Campaign. Sparked by the national conversation post-election, this effort served to bridge the divide and foster unity and respect across all chasms. Led by two residents, Drs. Jessica Queen and Melissa Rusli, this Weill Cornell residency program initiative raised money for indigent families during the holidays and is holding free monthly health fairs in underserved neighborhoods throughout New York City.

During 2016, a number of honors for our residents included: Masha Jones selected as the SGIM Young Scholar; Peggy Leung selected to become the training program's first Ambulatory Chief Resident for 2017-2018; Nicole Cruz named the National Hispanic Medical Association (NHMA) Resident of the Year; and 2016 graduate, Dr. Bryant Cameron Webb, became a White House Fellow.

Fellowships: Home to twelve subspecialty fellowships, the department continues to attract the best and brightest young physicians into its programs. The fellowship programs are cultivating time and mentors in academic investigation with great success. The obesity fellowship has recruited top-notch candidates for three consecutive years. It is currently not accredited by ACGME but will likely be considered a benchmark program when the accreditation process is finalized in the next few years. Please visit www.weillcornellmedicine.com/education for further information on fellowships.



Medical Students: Medical student teaching has also expanded to include the many variations of what the Weill Department of Medicine does. The medicine clerkship is coordinated by Drs. Ernie Esquivel and Shelene Stiner (clerkship) and includes some novel approaches to help our students learn medicine along with the opportunity to take authentic care of patients. Dr. David Berlin and Dr. Kapil Rajwani manage the newer critical care clerkship in conjunction with the Department of Anesthesia. The Primary Care Clerkship is also based in the department with Dr. Byron Demopoulos and Dr. Pamela Eliach helping our medical students learn the pleasure and reward of longitudinal primary care, using sites within our Upper East Side network and our partners in Ithaca, New York. We continue to support the senior medical students with our subinternship under the direction of Dr. Dana Zappetti. The advanced hospital medicine rotation remains a favorite for fourth year students, where they can immerse themselves in the myriad flavors of inpatient internal medicine. We continue to host students from Weill Cornell-Qatar to spend time as subinterns and on electives during their fourth year.

Education Highlights from 2016 include:

- Continued success with the Apple digital ecosystem for using technology in education. Distinguished Education Award designation (2015-2017) as innovators and leaders in education. Use of iPads, iBooks and iTunesU platform with multimedia, searchable educational materials have created high engagement in learning across the residency program.
- Introduction of a new Resident Research in Progress Conference with high engagement from our subspecialists.
- Fundraising to lease two additional bedside ultrasound machines enabling each inpatient unit to have an available machine for bedside imaging, improved patient care, and continued hands-on learning and practice for trainees.

- Enhanced wellness curriculum and offerings to help resident resilience including monthly hot breakfast and after hours acupuncture.
- Continued strong recruitment of top medical students into internal medicine representing 31 different medical schools.
- Placement of 28 graduates from the residency program into academic fellowship programs, including allergy, cardiology, gastroenterology, geriatrics, hematology-oncology, infectious diseases, nephrology and pulmonary/critical care.

Research Publications & National Presentation Highlights

We continue to have many of our trainees at every level participate in research activities leading to national presentations and publications. A new initiative for both residents and fellows seeking a better understanding of how to do research includes a core curriculum of didactics with hands-on mentoring to provide a real taste of science and inquiry. Our representation at the Annual Session of the Society of General Internal Medicine included record numbers of participants, including a reunion organized by Dr. Monika Safford.

A new initiative for both residents and fellows seeking **a better understanding of how to do research** includes a core curriculum of didactics with hands-on mentoring to provide a real taste of science and inquiry.

Emergency Medicine



Dr. Rahul Sharma, M.D., MBA, CPE, FACEP

Chief, Division of Emergency Medicine

Associate Professor of Clinical Medicine

Associate Professor of Clinical Healthcare Policy and Research Weill Cornell Medical College

Medical Director, Strategic Initiatives and Making Care

The Division of Emergency Medicine is dedicated to continually improving patient care in terms of operations, quality, patient flow, safety measures, and best practices to enhance the patient-provider relationship. Known for its outstanding patient care initiatives, a great emphasis is also placed on research and academic contributions. There are currently 60 Weill Cornell faculty members in the division who, during 2016, treated over 130,000 patients at the 68th Street and NYP-Lower Manhattan Hospital campuses.

The NYP/Weill Cornell ED is officially designated as a 911 receiving hospital, a NYS level I trauma center, a stroke center, a spinal cord injury center, and a psychiatric emergency receiving center. It is also the burn center for the City of New York, a chest pain center, and maintains one of the largest hospital-based ambulance services in the northeast that provides basic, advanced, and critical pediatric and adult pre-hospital care.

Research is growing in the Division of Emergency Medicine with a research infrastructure led by Dr. Sunday Clark, Director of Research for Emergency Medicine and Assistant Professor of Epidemiology in

Medicine. In addition to research contributing to the scientific literature in the areas of Emergency/Critical Care, Geriatric Emergency Medicine, Global and International Health, Graduate Medical Education, and Wilderness Medicine, the division is expanding clinical and translational research focused on the use of technology and innovation as part of the clinical care model. The division has also expanded its participation in clinical trials, increasing from one to six active clinical trials in the past year. As research efforts have grown, the division has also achieved a record number of peer-reviewed publications over the past year.

The division is also expanding its extramural research funding portfolio. Dr. Tony Rosen, Instructor in Medicine, received the Paul B. Beeson Emerging Leaders Career Development Award in Aging from the National Institute on Aging and the American Federation for Aging Research for his groundbreaking research on elder abuse. Specializing in geriatric emergency medicine, Dr. Rosen was awarded \$800,000 over the next five years to study injury patterns and forensic biomarkers in victims of elder abuse, as compared to victims of unintentional falls. His research seeks to improve an emergency physician's ability to identify cases of abuse in patients who arrive to the emergency department.

Many novel initiatives were advanced during 2016, including a digital approach for testing a new way to use telemedicine that allows emergency physicians to examine patients without being in the same room. Dubbed the Emergency Department Express Care Program at NewYork-Presbyterian/Weill Cornell Medicine, this initiative is among the first telemedicine programs of its kind at an academic hospital. Its goal is to reduce waiting times and ultimately to more efficiently care for non-urgent patients – but without compromising patient care. The Express

As research efforts have grown, the division has also achieved a record number of peer-reviewed publications over the past year.

Care Program has swiftly become a model of technological progress, and Dr. Rahul Sharma, Chief, has received many inquiries about the program from other hospitals and health care centers throughout the country. It has also been featured in several media outlets including Crain's New York, Modern Healthcare and Health IT News.

Founded and directed by Dr. Sharma, The Healthcare Leadership and Management (HLM) Scholars Program is a summer program launched in 2016 to enable Weill Cornell medical students to learn about the intersection between medicine and business. During the eight week program, the students

are exposed to leadership and management activities, including hospital administration, finance, and patient safety. With this new program we hope to train a new generation of physician-leaders who will be well-equipped to shape innovative policies and practices in patient care. The HLM scholars program was recently endowed by the Istel-Begala family.

Dr. Abdul-Aziz Ahmed joined the division in 2016 as an Instructor in Medicine. Dr. Ahmed obtained his M.D. from the Albert Einstein College of Medicine, served his residency training at St. Luke's-Roosevelt Hospital, and completed a fellowship in Sports Medicine at North Shore University Hospital, Manhasset.

L to R: Dr. Mary Mulcare, Dr. Rahul Sharma, and Weill Cornell medical students



Endocrinology, Diabetes and Metabolism



Julianne L. Imperato-McGinley, M.D.
Chief, Division of Endocrinology,
Diabetes, and Metabolism

Associate Dean for Translational
Research and Educational Medicine

Director, Clinical and Translational
Science Center (CTSC)

The Abby Rockefeller Mauzé
Distinguished Professor of
Endocrinology in Medicine

Professor of Medicine
Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian Hospital

As part of a world-class academic medical center, the Division of Endocrinology, Diabetes and Metabolism is dedicated to excellence in providing quality care to patients with endocrine and metabolic disorders; conducting promising research to advance the frontiers of endocrinology and diabetes; and training of highly motivated and dedicated physicians to become successful clinicians and physician-scientists. Division Chief, Dr. Julianne Imperato-McGinley serves as the Principal Investigator of the Weill Cornell NIH-funded Clinical and Translational Science Center (CTSC) promoting translation of research from bed to bedside and to the community to improve public health.

Established in 1997, the Diabetes Center in Endocrinology provides the highest standard of care for patients with type 1 and type 2 diabetes mellitus. It offers a multidisciplinary team approach for diabetes care with comprehensive case management and the development of an individualized treatment plan. An expert team is composed of diabetologists, certified diabetes educators, and registered dieticians who are

experienced in intensive diabetes management, including insulin pump therapy. The Center also has extensive experience in the management of gestational diabetes in patients with type 1 and type 2 diabetes mellitus. The Diabetes Center receives federal funding to support ongoing clinical research.

The division's areas of expertise in clinical care also include: general endocrinology; reproductive endocrinology, including the treatment of menstrual irregularities, hirsutism, and menopause; thyroid disease, with emphasis on thyroid cancer; disorders of calcium metabolism; and osteoporosis, metabolic bone disease and disorders of the pituitary and adrenal glands. Should surgery be necessary for the treatment of an endocrine disorder, we also have an endocrine surgeon on-site.

The subspecialty program in Endocrinology, Diabetes and Metabolism is designed to provide the training and experience necessary to acquire all competencies critical to becoming an expert in this field. This comprehensive program fulfills the needs of trainees anticipating a clinical and/or basic endocrine research career in academia; those expecting to function as clinician-educators; and those interested in pursuing the clinical practice of endocrinology.

The division conducts promising state-of-the-art research to generate new knowledge and improve understanding with the ultimate goal of applying the latest scientific and medical advances for the prevention, detection, and treatment of patients with endocrine diseases. Major areas of research include: Clinical and Translational Science Center (CTSC), for which Dr. Imperato-McGinley serves as the Principal Investigator and Program Director of Weill Cornell Medical College's \$49 million NIH-funded Clinical and Translational Science Award (CTSA); Molecular Genetics of Male Sexual Differentiation and Development including studies defining the genetic defects of subjects with inherited conditions affecting male sexual differentiation, particularly subjects with 5 α -reductase-2 deficiency; the Molecular Genetics of 21 Hydroxylase

Endocrinology, Diabetes and Metabolism Fellowship

Aaron Schulman, M.D.
Program Director

Felicia Mendelsohn Curanaj, M.D.
Associate Program Director

Stephanie Fish, M.D.
Associate Program Director

Richard S. Bockman, M.D., Ph.D.
Associate Program Director

The Endocrinology, Diabetes and Metabolism fellowship is a joint program with NewYork-Presbyterian/Weill Cornell, Memorial Sloan-Kettering Cancer Center (MSKCC) and the Hospital for Special Surgery (HSS). It is a 2-year training program accredited by the Accreditation Council for Graduate Medical Education (ACGME).



Deficiency, identifying inherited genetic defects in the 21-hydroxylase enzyme in humans which result in genital ambiguity (genotype-phenotype relationships of this condition also being studied); The Epidemiology of Diabetes Intervention and Complications Trial (EDIC), a continuation of the multicenter Diabetes Control and Complications Trial (DCCT) evaluating the effect of intensive glucose control on both microvascular and macrovascular complications of diabetes; The Action to Control Cardiovascular Risk in Diabetes (ACCORD) trial, a multicenter study of the effects of intensive versus conventional glucose, blood pressure and lipid treatment on cardiovascular disease in 10,000 individuals with type II diabetes mellitus; multi-center PERL study (Prevention of Early Renal Loss) in Type 1 Diabetes; Molecular Basis of Sex Steroid Hormone Interaction in Prostate Diseases, a study focusing on androgen-estrogen interaction in the prostate and the development of specific estrogen analogs with fewer side effects for the hormonal therapy of prostate cancer; The Effects and Mechanisms of Dietary Fat in Prostate Development and Pathogenesis to facilitate development of strategies for prostate cancer prevention; and Chinese Herbal Medicine and Phytochemicals in Prostate Cancer studies to determine their effects in the treatment of prostate cancer in animal models, elucidating mechanisms of action, with the ultimate goal of proceeding to clinical trials in patients with advanced prostate cancer. In addition to a specific Chinese herbal formula, phytochemicals derived from Chinese herbs, such as genistein and camptothecin analogs, are also being evaluated.

Our division includes the Center for Weight Management and Metabolic Clinical Research directed by Louis J. Aronne, M.D., Professor of Clinical Medicine and the Sanford I. Weill Professor of Metabolic Research. Dr. Aronne provides state-of-the-art patient care and leads numerous clinical trials for the treatment and management of obesity and metabolic disease. The center also mentors Master's students from the Institute for Human Nutrition, Columbia University, and WCMC medical students pursuing research experience.

L to R: Drs. Rekah Kumar & Aaron Schulman

Gastroenterology and Hepatology



David E. Cohen, M.D.
Chief, Division of
Gastroenterology and
Hepatology

Vincent Astor Distinguished
Professor of Medicine

Professor of Medicine
Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian Hospital

The Division of Gastroenterology and Hepatology provides outstanding patient care in a wide range of subspecialty areas, including hepatology, inflammatory bowel disease (IBD), gastrointestinal reflux disease, advanced endoscopic diagnostic and therapeutic procedures, functional bowel disorders, gastrointestinal infections and gastrointestinal cancer prevention and treatment. The division houses the Jay Monahan Center for Gastrointestinal Health, Center for Liver Disease and Transplantation, and The Jill Roberts Center for Inflammatory Bowel Disease. There is also a pancreas program. Patient care addresses the prevention and treatment of viral and alcoholic hepatitis, fatty liver, obesity, gastrointestinal cancers, Barrett's esophagus, IBD, disorders of gastrointestinal motility, pancreatic lesions, gastrointestinal diseases, and more.

Numerous research projects and clinical trials are underway. Dr. David E. Cohen, the newly appointed Division Chief, has brought his own state-of-the-art laboratory to Weill Cornell. His laboratory is world-renowned for leading the frontiers of molecular regulation of nutrient metabolism and energy homeostasis by membrane lipids. Dr. Cohen's seminal advances in research are directly benefiting the clinical setting with a focus on obesity-related liver disease.

Dr. Robert S. Brown, Jr., the division's Clinical Chief, continues to direct a robust liver transplant program. The Center for Liver Disease and Transplantation combines the Liver Transplantation program and Hepatitis C program within the division, as well as the Liver Transplant Surgery Division of the Department of Surgery. This interdepartmental program has laid the foundation for a comprehensive hepatology program at Weill Cornell Medicine with clinical trials in Hepatitis B and C, fatty liver disease, and alcoholic hepatitis. Dr. Felice Schnoll-Sussman continues to serve

as Director of the Jay Monahan Center for Gastrointestinal Health, offering a wide breadth of expertise including endoscopic ultrasound, capsule endoscopy, colorectal genetics, colon cancer prevention, endoscopic treatment of Barrett's esophagus, and esophageal motility. The Endoscopic Bariatric Program, directed by Dr. Reem Sharaiha (along with Dr. Louis Aronne, Division of Endocrinology, Diabetes and Metabolism), continues to thrive. The program provides the full spectrum of novel technologies related to endoscopic treatment of obesity. This advanced endoscopy group offers a roster including endoscopic suturing, confocal endomicroscopy for early detection of GI cancers, photodynamic therapy and radiofrequency ablation for pancreaticobiliary cancers, endoscopic drainage of pseudocysts, endoscopic necrosectomy and EUS-guided ERCP, and POEM (treatment of esophageal achalasia). Dr. Michel Kahaleh directs a major referral center for pancreaticobiliary disease (in conjunction with Dr. Michael Lieberman of the Department of Surgery). Dr. Kahaleh and team published a series of papers on therapeutic Endoscopic Ultrasound and Endoscopic Surgery in the top tier journals and presented their work at Digestive Disease Week in 2016. They also won a 2016 Plenary Session Award from the American Society of Gastrointestinal Endoscopy for their work with STER, a new noninvasive treatment being used in the U.S. for the removal of tumors from the esophagus and for gastric lesions.

The Jill Roberts Institute for Research in Inflammatory Bowel Disease employs a multidisciplinary approach in translating scientific discoveries into new preventative and treatment strategies for IBD. The close collaboration between researchers at the Roberts Institute (Director, Dr. David Artis) and clinicians at the Jill Roberts Center for Inflammatory Bowel Disease (Director, Dr. Ellen Scherl) at Weill Cornell Medicine and NewYork-Presbyterian Hospital is enabling a trend towards more personalized treatment



for IBD. The Jill Roberts Center is active in research studies focused on moderate to severely active Crohn's Disease and ulcerative colitis, eating patterns and disease activity in patients with IBD, and health care maintenance in patients with IBD.



Dr. Julie Blander

The Jill Roberts Institute has recently recruited Dr. Julie Magarian Blander, an expert on the innate immune system. Dr. Blander is driving new research in IBD with funding from the National Institute of Allergy and Infectious Diseases, National Institute of Diabetes and Digestive and Kidney Diseases, Burroughs Wellcome Trust Fund, and a Leukemia and Lymphoma Society Scholar Award. She received her Ph.D. in Immunology from the University of Pittsburgh School of Medicine, Department of Molecular Genetics and Biochemistry, and completed postdoctoral training in immunology at Yale University School of Medicine.

Dr. Andrew Dannenberg, Associate Director of Cancer Prevention, Sandra and Edward Meyer Cancer Center, continues to lead an investigation of a blood-based signature of fatty tissue inflammation in the breast. Funded by The Prevent Cancer Foundation, the goal of this study is to develop a blood test to identify women who are at increased risk of developing breast cancer and to hopefully elucidate the role of obesity in many cancers.

Dr. Steven Lipkin, a human geneticist, remains focused on biobanking initiatives and studies to identify genetic links to IBD and GI Cancers. Dr. Lipkin serves as the Vice Chair for Basic and Translational Research in the Weill Department of Medicine.

Several new recruits joined the division in 2016. Drs. Baran A. Ersoy, Tibor Krisko, and Hayley T. Nicholls were recruited from Harvard. Dr. Ersoy directs an independent laboratory focused on the hepatic metabolism and insulin resistance. Dr. Nicholls is working on the role of the microbiome in regulating energy expenditure and glucose metabolism. Dr. Krisko provides clinical care coupled to research on metabolic liver disease (NAFLD) and the gut microbiome. Other new recruits included: Dr. Kristy A. Brown, an expert in sex hormone biology; Dr. David L. Carr-Locke, who will be directing the Center for Advanced Digestive Care in the new David H. Koch Building for Advanced Medicine; Dr. Brett E. Fortune, a transplant hepatologist; and Dr. Philip O. Katz, who has a clinical practice for patients with esophageal disease and directs the Motility Laboratories at the Jay Monahan Center for Gastrointestinal Health.

Gastroenterology and Hepatology Fellowship

Carl Crawford, M.D.
Program Director

A 3-year program that focuses on specialized rotations and research, including opportunities to participate in clinical research (e.g., hepatology, inflammatory bowel disease, cancer screening, endoscopic ultrasound, the microbiota of the GI tract, Endoscopic imaging techniques). We continue to recruit top candidates nationally and our fellows are pursuing academic careers in hepatology, advanced endoscopy, IBD, as well as other disciplines within gastroenterology.

General Internal Medicine



Monika Safford, M.D.
Chief, Division of Internal Medicine

John J. Kuiper Professor
of Medicine

Assistant Professor of Medicine (Interim)
Weill Cornell Medical College

Assistant Attending Physician
NewYork-Presbyterian Hospital

The Division of General Internal Medicine is home to Adult Internal Medicine and Hospital Medicine, with a combined staff of more than 300 employed and voluntary faculty. The division's tripartite mission is focused on providing compassionate, comprehensive, coordinated and state-of-the-art patient-centered care for every patient through evidence-based practice. The division is also dedicated to educating the next generation of internal medicine physicians and optimizing the overall health and well-being of patients and communities via collaborative research. The division's multidisciplinary faculty is deeply committed to excellence and advancement in patient care via its hospital medicine and adult internal medicine programs, resident and medical student education, and through cutting-edge research.

Dr. Monika Safford, Division Chief, joined the Department in January 2016. She is an expert in diabetes, cardiovascular epidemiology and prevention, as well as health disparities. Dr. Safford is the author of more than 300 peer-reviewed papers, receives ongoing support from the National Institutes of Health, and other sources, and has chaired several national meetings throughout her professional career.

The WCM Global Health Research Fellowship

Molly McNairy, M.D., M.Sc.
Division of General Internal Medicine
Program Co-Director

Daniel Fitzgerald, M.D.
Division of Infectious Diseases, Center for Global Health
Program Co-Director

This fellowship is tailored for post-residency graduates in internal medicine and seeks to train general internists for academic careers in global health research. It includes extensive field-based research in WCM programs based in Haiti, Tanzania, Brazil, and India, along with training in research methods, teaching and clinical service at NewYork-Presbyterian/Weill Cornell Medical Center.

Dr. Judy Tung is the division's Section Chief of Adult Internal Medicine, as well as the Chair of the Department of Medicine at NewYork-Presbyterian/Lower Manhattan Hospital. The Adult Internal Medicine program includes over 40 academic full time members who provide high-quality and comprehensive primary care for a diverse group of patients representing a cross section of the ethnic, cultural, and economic diversity that is New York City. The program integrates faculty and trainee



Dr. Judy Tung

practices at locations on the Upper East Side at 505 East 70th Street and 1484 First Avenue (Weill Cornell Internal Medicine Associates [WCIMA]), 1305 York Avenue, in lower Manhattan at 156 Williams Street, and at a Federally

Qualified Health Center in Long Island City, Queens, called Community Healthcare Network (CHN). Services include preventive health care, treatment of acute and chronic illness, and coordination of care for those with medical complexity. Regardless of insurance plan type, patients seen in the adult internal medicine practices are cared for by a cadre of outstanding health care providers. This section of the division also serves as the primary hub for general medicine ambulatory education for the Internal Medicine Residency Training Program. Dr. Fred Pelzman, Associate Professor of Clinical Medicine, serves as the Medical Director of WCIMA. He also directs the division's program for Primary Care Innovations, a philanthropically funded initiative to increase innovation in primary care. Dr. Trent Collier, Assistant Professor of Clinical Medicine, serves as Medical Director of the 156 Williams Street practice, and Dr. Ramin Asgary, Assistant Professor of Clinical Medicine, serves as Medical Director of the CHN practice in Queens.



Dr. Art Evans

Dr. Arthur Evans is the division's Section Chief of Hospital Medicine. The Hospital Medicine program includes over 60 exceptional faculty members from around the country. All faculty are board certified in internal medicine and many have additional training

and subspecialty expertise, including infectious disease, emergency medicine, nephrology, critical care, medical informatics, pain management, quality improvement, and clinical research. On any given day, the faculty provides care for over 200 inpatients at both the 1300 York Avenue and lower Manhattan NewYork-Presbyterian/Weill Cornell campuses. Physicians are responsible for the general medicine house staff service, the medicine consult service, and the medicine-orthopedics trauma service, and they oversee the medicine Physician Assistants service.

The division's patient-centered research program, led by Dr. Safford, focuses on optimizing the health and functioning of people living with chronic diseases (e.g., diabetes, hypertension, heart failure, obesity, inflammatory arthritis, cancer, chronic pain); chronic disease prevention; the elimination of health disparities and the care of vulnerable populations, both in the US and abroad; and clinical epidemiology with a focus on informing population health management. This research program is funded by the National Institutes of Health, the Patient Centered Outcomes Research Institute, the Commonwealth Fund, and private sponsors.

The research program is comprised of observational research, including an NHLBI-funded ancillary study to the REasons for Geographic and Racial Differences in Stroke (REGARDS) cohort study, which focuses on coronary heart disease endpoints and psychosocial determinants of health. This national cohort study of over 30,000 black and white community-dwelling Americans has served as the platform for numerous studies elucidating subpopulations at risk for cardiovascular disease outcomes and has allowed medical students,

The division is also dedicated to **educating the next generation of internal medicine physicians** and optimizing the overall health and well-being of patients and communities via collaborative research.

residents, trainees, as well as junior and more senior faculty to conduct studies. A second NHLBI-funded REGARDS ancillary study focuses on the causes and consequences of healthcare fragmentation, complemented by a Commonwealth Fund-funded large database study of healthcare fragmentation. Division investigators also lead observational studies in Haiti, seeking to improve HIV care, and in Tanzania to better understand hypertension in adolescents.

Extramurally-funded research also includes pragmatic trials to improve health outcomes in vulnerable populations, especially using trained lay individuals as the interventionist. Trials include a PCORI/NHLBI-funded hypertension study engaging 2,000 African American rural dwellers cared for at 80 primary care practices in the Southeast's Black Belt regions of Alabama and North Carolina. Another PCORI-funded trial tests peer coaching to improve medication adherence in diabetes. Another project will develop a peer coaching intervention to improve cardiovascular risk among individuals with inflammatory arthritis. Clinician investigators in the division also lead projects encouraging cancer patients to increase their physical activity.

An important initiative that straddles research and clinical care is the Patient Activated Learning System (PALS), a patient education web-based platform being developed by division members Drs. Monika Safford, Amanda Carmel, Fred Pelzman, and

General Internal Medicine

Sanjai Sinha, in collaboration with Weill Cornell's research librarians. The PALS provides highly engaging, easily understood, conflict-free medical information for the lay public free of charge. It is being designed specifically to enhance clinical care and improve physician-patient communication, and has served as the platform for several research projects intended to optimize patient-centered care and shared decision-making. The initial launch is providing valuable information on hypertension, especially on the medications used to treat this condition. Future releases will focus on geriatrics, palliative care, and pediatric asthma. The PALS will continue to incorporate medical information from all of the medical specialties that define excellence at WCM. It is available for world-wide use online at palsforhealth.com.

2016 was a banner year for appointments and honors in the division. Appointments included Dr. Yoon Kang, the Richard P. Cohen, M.D. Associate Professor of Medical Education, as Associate Dean for Program Development and Operations of Medical Education at Weill Cornell Medicine; Dr. Jennifer I. Lee, Associate Professor of Clinical Medicine, as Vice Chair for Quality and Patient Safety in the Weill Department of Medicine (WDOM); and Dr. Susana R. Morales, Associate Professor of Clinical Medicine, as the WDOM's Vice Chair for Diversity. Honors for division faculty included Dr. Ramin Asgary elected as President of the American Society of Tropical Medicine and Hygiene for year 2017-2018; Dr. Pamela Eliach accepted into the 2017 Harvard Macy Institute Program for Educators in Health Professions; Dr. Renuka Gupta designated as

a Fellow in Hospital Medicine by the Society of Hospital Medicine; Dr. Fred Pelzman, M.D. was selected to participate in the 2016 AAIM Executive Leadership Program; Dr. Magalie Bruneus participated in the AAMC Minority Faculty Development Seminar; and Dr. Margaret McNairy was named one of the five inaugural recipients of the Kellen Junior Faculty Fellowship award, supported by the Anna-Maria and Stephen Kellen Foundation.

The Division continues to send at least 2-3 faculty annually to the *Leadership in Academic Medicine Program (LAMP)* delivered on campus, and this year, co-directed by Dr. Judy Tung. Drs. Sanjai Sinha, Renuka Gupta, and Stephane Tang were selected to participate as fellows in the departmental faculty development program known as *Quality University*, led by Dr. Jennifer I. Lee. This one-year long faculty development program was initiated in 2015-16 and engaged competitively selected individual project leaders to learn principles of quality improvement. The program is developing a cadre of faculty with expertise in quality improvement to serve as a teaching resource for students and trainees, and also for the Hospital.

The division is rapidly expanding its institutional influence and is currently working on a number of initiatives including the new Cornell Center for Health Equity, a collaboration with Cornell University-Ithaca campus, and a center for Integrative Health and Wellbeing based at Weill Cornell in collaboration with NewYork-Presbyterian Hospital (<https://weillcornell.org/integrative-health-program>).

Dr. Molly McNairy
(2nd from left)



Geriatrics and Palliative Medicine

The Division of Geriatrics and Palliative Medicine is guided by a patient-centered culture of care. By integrating high-quality clinical care, the teaching of geriatric and palliative medicine, and scientific research, the division seeks to improve the quality of life for older adults and for patients of all ages facing chronic illness and end-of-life. The division also supports the networks of patient families and patient caregivers.

The Irving Sherwood Wright Center on Aging serves geriatric outpatients (average age over 80). The practice is structured to meet the complex needs of older adults, together with their families and other caregivers, along with mental health professionals, geriatric nurse practitioners, social workers, and nutrition specialists, complementing the work of the geriatricians. The Center excels in patient satisfaction scores within the Ambulatory Care Network of NewYork-Presbyterian Hospital. For elderly patients too frail to come to the Wright Center, comprehensive services are provided in the home through the EGL House Call Program.

Ten board-certified physicians in palliative medicine, along with an interdisciplinary team of nurse practitioners and social workers, see adults of all ages in the inpatient and outpatient settings. Dr. Milagros Silva is Medical Director of the outpatient palliative care team, working closely with WCM oncologists, to address pain management and wellness needs for chronically ill patients. Dr. Randi Diamond, Co-Director of The Liz Claiborne Center for Humanism in Medicine, leads a bi-monthly palliative care case conference and narrative medicine groups, and she has initiated a palliative care education partnership with St. Francis Naggalama Hospital in Uganda. The Palliative Care Champions Program trains nurses and social workers throughout NYP/Weill Cornell Medical Center.

Dr. Eugenia Siegler, Mason Adams Professor of Geriatric Medicine and Medical Director of Geriatrics Inpatient Services, is completing the second year of the HIV and



Ronald D. Adelman, M.D.
Co-Chief, Division of Geriatrics and Palliative Care

Medical Director, Irving Sherwood Wright Center on Aging

The Emilie Roy Corey Professor in Geriatrics and Gerontology

Professor of Clinical Medicine Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian Hospital



Mark S. Lachs, M.D., MPH
Co-Chief, Division of Geriatrics and Palliative Care

Director, Geriatrics for the NewYork-Presbyterian Health System

The Irene F. and I. Roy Psaty Distinguished Professor of Clinical Medicine

Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian Hospital

Aging Program, in partnership with the WCM Center for Special Studies. The program offers multisite clinical care and patient support, an arts program (in collaboration with Next Legacy Arts), and has expanded research. Dr. Siegler and program colleagues have recently published pivotal papers, including *Preparing to Care for an Aging HIV Population* and *From One Syndrome to Many: Incorporating Geriatric Consultation into HIV Care*, co-authored by Assistant Professor Dr. Tessa del Carmen.

The Cornell Center for Research on End-of-Life Care, co-directed by Dr. Holly Prigerson, Irving Sherwood Wright Professor in Geriatrics, Professor of Sociology in Medicine, is home to numerous NIH-funded research projects focused on factors that promote informed decision-making and the receipt of value-consistent, and more humane, care of patients confronting death. Evidence derived from these studies informs the development of interventions to reduce suffering in seriously ill patients. The NIA-funded Roybal Center, directed by Dr. M. Cary Reid, Irving Sherwood Wright Associate Professor in

Geriatrics and Palliative Medicine

Geriatrics, investigates pain in later life and the role of palliative care in pain and symptom relief. Drs. Prigerson and Reid are co-PIs on a 5-year T32 grant from the NIH, which prepares highly qualified MDs and PhDs for successful careers in aging research.

The division remains dedicated to the prevention of elder abuse, exemplified by its NYC Elder Abuse Center. NYCEAC is a leader in developing innovative and effective responses



L to R: Drs. Veronica LoFaso, Carol Capello, Karin Ouchida

to elder abuse, neglect and exploitation through an unprecedented level of collaboration and coordination between government, non-profit agencies, and financial institutions. Headed by Division Co-Chief, Dr. Lachs, The Irene F. and I. Roy Psaty Distinguished Professor of Clinical Medicine, and by Risa Breckman, LCSW, Assistant Professor of Gerontological Social Work in Medicine, NYCEAC provides a streamlined and rapid response to elder abuse cases in Manhattan and Brooklyn through its multidisciplinary teams (MDTs) and case consultations. Through its wide-reaching educational trainings, social media vehicles and weekly blogs, NYCEAC further engages professionals around pertinent issues confronting the elder justice field and conducts research to develop innovative practices and policies to enhance their abilities to meet the many needs of older victims.

The division's faculty trains medical residents in geriatrics and palliative medicine. Including geriatrics rotations, residents visit a PACE

(Program of All-inclusive Care for the Elderly) site; make hospice and geriatrics house calls; accompany geriatric care managers on client visits; visit a nursing home, an independent living site, and other levels of senior housing; see an elder abuse shelter; present cases at weekly divisional meetings during their rotation; and assist with the division's transitional care clinic, HIV/Aging program and the Wright Center's walk-in patients. A new community partner, Lenox Hill Neighborhood House, offers an opportunity for residents to talk with older adults in a non-clinical setting. Medical students participate in a Primary Care Clerkship, working alongside faculty members at the outpatient clinic, shadowing doctors and fellows in inpatient settings (e.g., Acute Care for the Elderly Unit and Geriatric Consultation Rounds) and with the EGL House Call team. The division also hosts the Medical Student Training in Aging Research (MSTAR)/Adelman Summer Scholarship program; selected students are immersed in clinical and didactic activities to deepen their understanding of the aging population. They also conduct research with a universal focus on aging, including presentations to the WCM community and at the American Geriatrics Society Annual Scientific Meeting.

Dr. Anna M. Hennon, Assistant Professor of Clinical Medicine, was recruited to the division in 2016. Dr. Hennon completed fellowship training in geriatric medicine at Weill Cornell Medicine and sees palliative care patients in the hospital and outpatient settings.

Geriatrics Fellowship

Karin Ouchida, M.D.
Program Director

Sonal Mehta, M.D.
Associate Program Director

The Division houses both a Geriatrics Fellowship and, jointly with Columbia University Medical College, a Hospice and Palliative Medicine Fellowship. Based in internal medicine and family medicine, the program includes numerous rotations, teaching opportunities, and a variety of quality improvement and clinical research initiatives in geriatrics and palliative medicine.

Hematology and Medical Oncology

The Division of Hematology and Medical Oncology has 69 full-time faculty members (47 clinical practitioners/researchers and 22 full-time scientists) who provide world-class patient care, as well as teaching and research, among six clinical services at five practice locations. The six clinical services are Solid Tumor Oncology, Leukemia, Lymphoma, Myeloma, Stem Cell Transplant, and Non-Malignant Hematology. The five sites of operation are NewYork-Presbyterian Hospital Main Campus (third floor), Weill Greenberg Ambulatory Care Building (Solid Tumor Oncology), Oxford Building (Myeloma), the Woman's Health Center at 425 East 61st Street (Breast Cancer), and NewYork-Presbyterian's Lower Manhattan Hospital. Each of the division's disease-specific programs works closely with faculty in the corresponding surgical and radiation oncology departments, divisions, or programs to provide patients with a talented and dedicated multidisciplinary team.

The Cancer Program at NewYork-Presbyterian/Weill Cornell Medical Center is consistently ranked as the number one cancer research program at an academic medical center in the New York metropolitan area by *U.S. News and World Report* and, in 2016, ranked number 17 in the country for clinical cancer care. The division's clinical program grows in volume each year. In fiscal year 2016, there were approximately 101,000 total patient encounters, compared with 69,000 in FY11, reflecting a 46% increase. Each service contains disease-specific programs for research and clinical care. The Solid Tumor Service has active clinical and research programs in Breast Oncology, Gastrointestinal Oncology, Genitourinary Oncology and Thoracic Oncology, with developing programs and expertise in Head and Neck Oncology, and Endocrine Oncology. The Hematological Malignancies Program includes the Leukemia, Lymphoma, Multiple Myeloma, and Stem Cell Transplant Services, and the Richard T. Silver Myeloproliferative Neoplasm (MPN) Center.

Within the Hematological Malignancies Program, there are several specialty programs, including the Chronic Lymphocytic Leukemia (CLL) Research Center, the Waldenstrom's Macroglobulinemia Program and the Myelodysplastic Syndromes (MDS) Clinical Research Consortium.

In 2016, the division received more than \$14 million in new funding for cancer and blood disease research, contributing to more than 140 active research projects. The clinical research programs enrolled over 700 people in more than 100 different interventional clinical trials.

Under Dr. Evi Giannakakou's leadership, a major emphasis is on translational research, which originates in the Belfer Institute of Hematology and Oncology (Meyer Building) and in the Belfer Research Building. The laboratory research faculty are involved in the translational components of numerous clinical trials, working hand-in-hand with clinical researchers and using cutting-edge technology to address oncologic questions that impact patient care and outcomes.

The laboratory research faculty are involved in the translational components of numerous clinical trials, working hand-in-hand with clinical researchers and **using cutting-edge technology to address oncologic questions** that impact patient care and outcomes.



David M. Nanus, M.D.
Chief, Division of Hematology and Medical Oncology

Medical Director
Genitourinary Oncology Program

Mark W. Pasmantier
Professor of Hematology and Oncology in Medicine

Professor of Medicine
Professor of Urology
Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian Hospital

Director, NYPH-WCM Healthcare Services Cancer Program

Hematology and Medical Oncology

A major focus is on understanding the molecular mechanisms underlying individual patient sensitivity and resistance to chemotherapy or targeted treatment, with initiatives in the areas of circulating tumor cells in solid tumors, epigenetic modification therapeutic strategies in lymphoma, and minimal residual disease assessment in acute leukemia. These efforts have the potential

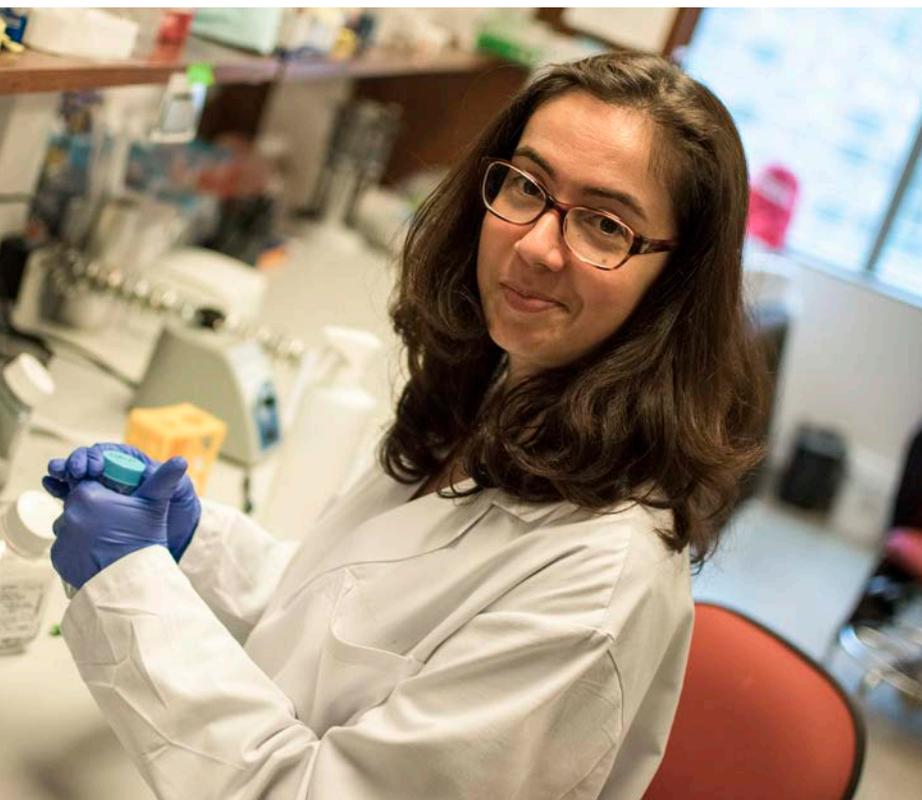
to not only uncover specific aspects of fundamental cancer biology, but to lead to the development of novel biomarkers that can be used to tailor treatment to the individual. To that end, the division works closely with the Englander Institute of Precision Medicine.

The division maintains a central role in the growth of the Meyer Cancer Center, working with its director, Lewis Cantley, Ph.D., to recruit basic science and translational researchers, and to work towards designation as an official National Cancer Institute matrix cancer center. Dr. Cantley was honored in 2016 with the prestigious Wolf Prize in Medicine.

The Richard T. Silver, M.D. Center for Myeloproliferative Neoplasms (MPN), led by its new scientific director, Dr. Joseph Scandura, has novel research underway on neoplastic myeloid biology. The Center has established a new clinical informatics platform, biorepository and web presence, and provides ongoing, coordinated care for patients with MPNs and related non-hematologic complications.

The Weill Cornell Clinical and Translational Leukemia Program, led by Dr. Gail Roboz, offers a wide variety of novel investigator-initiated, cooperative group, and industry-sponsored clinical trials in acute leukemia and myelodysplastic syndrome (MDS). The clinical care team runs one of the largest in-patient leukemia services in the country. The Myeloma Center continues to lead in drug development, clinical trials, biology scholarship and translational research. Under the leadership of Dr. Koen van Besien, during the past calendar year, the Bone Marrow Transplantation program performed 176 autologous and allogeneic transplants, and 37 additional infusions, including immunotherapies such as CAR-T cells.

Under the leadership of Dr. Peter Martin, the Lymphoma Program continues to grow strategically, and researchers are advancing



Dr. Eftychia (Effie) Apostolou

In 2016, the division received more than **\$14 million in new funding for cancer and blood disease research**, contributing to more than 140 active research projects.



high-impact clinical trials that provide therapy for various disease subtypes (e.g. diffuse large B-cell lymphoma, follicular lymphoma, mantle cell lymphoma).

In 2016, Dr. Effie Apostolou, Assistant Professor of Molecular Biology in Medicine, had a record year in grant funding. She received substantial support from the NIH and is also leading a “Tri-Institutional Stem Cell Initiative -- Extra-Embryonic Endoderm Identity to Pluripotency In Vitro and In vivo,” and another Tri-Institutional on “Stem Cell Initiative Role of TFs in Chromatin Reorganization and Stem Cell Memory after Cell Division.”

The Non-Malignant Hematology Program, led by Service Chief Dr. Maria De Sancho, is dedicated to delivering the most advanced treatments for people with all types of blood disorders. Weill Cornell has been a pioneer in therapies for thrombosis, hemophilia, and thalassemia for over 50 years. The Non-Malignant Hematology Program offers state-of-the-art diagnostic testing, the latest drug therapies, and innovative treatment methods. The Breast Center’s breast oncology program delivers the most advanced treatment and comprehensive care for patients with all stages of breast cancer and those at increased risk for developing breast cancer. It has been named an accredited Breast Center by the National Accreditation Program for Breast Centers (NAPBC), a national consortium dedicated to improving the quality of care for breast cancer patients. The triple negative breast cancer (TNBC) and survivorship programs continue to grow, along with the triple negative breast cancer registry and biobank. Additionally, a research collaboration for patient derived xenografts (PDX) to evaluate tumor behavior has been established. The division’s Thoracic Oncology Program continues to expand with its use of immunotherapies, targeted therapies, and other biological agents to treat lung cancer. The Gastrointestinal (GI) Oncology

Program, led by Dr. Manish A. Shah, offers expertise across the spectrum of cancers in GI oncology (e.g., esophagus and gastric cancer, pancreatic cancer, hepatobiliary cancers, colorectal cancers). The Genitourinary Oncology Program, led by Dr. Scott Tagawa, has advanced with its international clinical trial on neuroendocrine prostate cancer while continuing to leverage genomic discoveries.

Dr. Ralph L. Nachman, former Chief of the division and former Chair of the Weill Department of Medicine, was honored with the 2016 ASH Mentorship Award. Dr. Nachman, Professor Emeritus of Medicine, received this coveted award based upon his decades-long devotion to the training and mentoring of early-career hematologists.

2016 recruits included Dr. Alan Astrow, the Hematology and Oncology Division Chief at Brooklyn Methodist Hospital; Dr. Jingmei Hsu, Assistant Professor of Medicine, treating patients with hematologic malignancies who are in need of stem cell transplants; and Dr. Eun Ju Lee, Assistant Professor of Medicine, and Dr. Raymond Pastore, Assistant Professor of Medicine, serving on the non-malignant hematology team.

Hematology and Medical Oncology Fellowship

Ronald J. Scheff, M.D.
Program Director

Adrienne Phillips, M.D.
Associate Program Director

John N. Allan, M.D.
Chair, Program Admissions Committee

A 3-year fellowship that includes rotations through the clinical subspecialty services at NYP/Weill Cornell Medical Center, as well as supervised laboratory and/or clinical research. In 2016, the fellowship program had 15 ACGME fellows, and, in 2017, five first-year fellows will be entering the program.

Infectious Diseases



Roy M. Gulick, M.D., MPH
Chief, Division of Infectious Diseases

Rochelle Belfer Professorship

Professor of Medicine
Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian Hospital

The Division of Infectious Diseases provides expertise in research, clinical care, and education and training. Internationally recognized physician-scientists conduct cutting-edge basic laboratory, translational, patient-oriented, and epidemiologic research in infectious diseases in New York City and abroad at sites in Brazil, Haiti, India, and Tanzania. Research in the division includes bacterial infections (including multidrug-resistant organisms), fungal infections, hepatitis B and C, HIV/AIDS, hospital-acquired infections, human papillomavirus (HPV), parasitic infections (Babesia, malaria), transplant/oncology infectious diseases, tuberculosis, and other viral infections (adenovirus, influenza, parainfluenza, rhinovirus). Additionally, the division is home to Weill Cornell Travel Medicine (WCTM), which was co-founded in 1980 by Dr. Henry W. Murray, the Arthur R. Ashe Jr. Professor of Medicine. Dr. Murray, along with a roster of highly experienced physicians, and under the leadership of WCTM's Medical Director, Dr. Ole Vielemeyer, provide care at the clinic that includes a broad range of destinations for international travelers.

The division's research, laboratory, translational, and clinical trials, remains robust. The Rhee Lab (Director: Dr. Kyu Rhee) continues its highly innovative work on Mycobacterium tuberculosis (MTb) using novel mass spectrometry-based metabolomic

approaches. The Golightly Lab (Director: Dr. Linnie Golightly) is working on the pathogenesis of cerebral malaria, as well as a novel noninvasive, cell phone-based device to diagnose and determine the severity of malaria; and clinical testing of the device is planned in Ghana. The Walsh Lab (Director: Dr. Tom Walsh) investigates fungal pathogens and develops and tests newer antifungal strategies and treatments in laboratory experiments and animal models. Dr. Marshall Glesby heads the HIV Clinical Trials Unit with co-investigators Drs. Leah Burke, Roy Gulick, Kristen Marks, Mary Vogler, and Timothy Wilkin. The unit conducts research in the treatment and prevention of HIV, the treatment of hepatitis C (HCV) infection, and the assessment and treatment of human papillomavirus (HPV) infection. Dr. Catherine Small, Associate Director of the Transplant/Oncology Infectious Diseases Service, along with co-investigators Drs. Samantha Jacobs, Michael Satlin, Rosemary Soave, and Tom Walsh is leading clinical research conducted in patients who have undergone organ transplantation or have cancer and develop infections.

Drs. David Calfee and Matthew Simon serve as the Hospital Epidemiologists for NYPH. They are noted for their outstanding efforts in response to the recent Ebola and Zika virus outbreaks, as well as day-to-day strategies to decrease hospital-acquired infections at NYP/Weill Cornell. The Center for Special Studies (CSS), the HIV primary care service, continues to grow the Pre-Exposure Prophylaxis (PrEP) program for at-risk HIV-negative individuals, supported in part by a Clinical and Translational Science Center (CTSC) Community Engagement Award (Directors: Drs. Lawrence Siegel and Cecilia Yoon). At the Lower Manhattan Hospital location, inpatient and outpatient services for infectious diseases and hospital epidemiology are thriving with the support of new recruit, Dr. Lalitha Parameswaran, Assistant Professor of Clinical Medicine, and Dr. Chester Lerner.

Infectious Diseases Fellowship

Kristen Marks, M.D.
Program Director

A 3-year training program that includes individualized training through clinical rotations, didactic course work, mentored research, and faculty guidance to develop the next generation of infectious diseases physician-scientists.

Founded in 1982, GHESKIO (Groupe Haitien d'Etude du Sarcome de Kaposi et des Infections Opportunistes (Director: Dr. Jean Pape) conducts NIH-sponsored research with adult and pediatric HIV treatment networks. Facilities include a newly opened cholera treatment center, 35-bed TB hospital, and maternal child health center.

The Tanzania Training Program (Director: Dr. Daniel Fitzgerald; Mwanza) trains health professionals in the design, implementation, and measurement of innovative health interventions. Dr. Jennifer Downs conducts research on schistosomiasis and HIV co-infection. Dr. Robert Peck provides clinical care and conducts research in non-infectious diseases in HIV-infected individuals, such as hypertension. Dr. Jyoti Mathad continues to study pregnant women with HIV infection with exposure to tuberculosis in India.

An NIH-sponsored T32 research training grant, "Pathogenesis of Infectious Diseases" (Principal Investigator: Dr. Roy Gulick), continues to support our training of infectious diseases physician-scientists through 2019. This grant supports our fellows to conduct basic, translational, clinical and epidemiologic research projects. Fellows study a wide breadth from drug-resistant bacterial infections and HIV/AIDS care disparities, to tuberculosis.

2016 was a banner year for honors and appointments in the division. The division's Chief, Dr. Roy M. Gulick, was named Chair of the NIH Office of the AIDS Research Advisory Committee (OARAC); Dr. Linnie Golightly was appointed to Associate Dean of Diversity at Weill Cornell Medicine; Dr. Jennifer Downs received a Dr. Debasish Mridha Spirit Award by the American Medical Association Foundation as part of their 2016 Excellence in Medicine Awards; to name a few.



Dr. Linnie Golightly

Internationally recognized physician-scientists conduct cutting-edge basic laboratory, translational, patient-oriented, and epidemiologic research in infectious diseases in New York City and abroad at sites in Brazil, Haiti, India, and Tanzania.

Medical Ethics



Joseph J. Fins, M.D., FACP
Chief, Division of Medical Ethics

E. William Davis, Jr., M.D.
Professor of Medical Ethics
Professor of Medicine
Professor of Public Health
Professor of Medicine in
Psychiatry
Weill Cornell Medical College

Director of Medical Ethics
and Chair, Ethics Committee

Attending Physician
NewYork-Presbyterian Hospital

The Division of Medical Ethics pursues a tripartite mission of medical education, ethics consultation, scholarship and research. The division teaches medical students, house staff, and attending staff and provides ethics education throughout the pre-clinical years including professionalism, the history of medical ethics, methods of ethics consultation, and ethical issues across the life span. The division also considers ethical and regulatory issues in clinical research, so that students appreciate their responsibilities as clinicians and investigators.

With our NewYork-Presbyterian Hospital colleagues in Patient Services Administration, the Ethics Consultation Service performed 350 ethics consults in 2016 at both the NYPH-WCMC campus and Lower Manhattan Hospital affording wise counsel to patients, families, and staff regarding the ethical challenges confronted in patient care. Our case consult volume makes us one of the most active Ethics Consultation Services in the United States. The Ethics Committee of NewYork-Presbyterian/Weill Cornell Medicine, chaired by Dr. Fins, provides oversight to the consultative process and guidance to the hospital on policies and procedures related to medical ethics and patient rights.

Cathleen Acres' work on ethics case consultation continued in 2016 and she has been an outstanding mentor to our new members in the division regarding ethics case consultation. She retired in June 2017 after over 40 years of dedicated service as a charge nurse of the famed NYPH Burn Unit, as a Patient Representative, and, over the past 17 years, as a Lecturer in Medical Ethics,

administrative director of the Division of Medical Ethics and Associate Clinical Ethicist. She was the first member of the division recruited by Dr. Fins and the division's success over the past 20 years was due in large measure to her extraordinary efforts and dedication. All the patients and families she helped and all of her colleagues on the clinical staff benefited from her sage counsel, compassion and integrity. Ms. Acres will retain a relationship with the division and we look forward to future visits and collaborations.

2016 recruits to the division included: Samantha Knowlton, M.D., M.A., Assistant Professor of Medical Ethics; Diego Real de Asua, M.D., Ph.D., Medical Ethics Fellow; and Megan Wright, Ph.D., J.D., Post-doctoral Associate. Dr. Knowlton who worked as an attending psychiatrist in private practice recently completed an M.A. in Medical Ethics from Columbia University. She will work as a clinical ethicist on the consultation service and continue her scholarship at the intersection of psychiatry and medical ethics, including the ethical implications of precision medicine in psychiatric diagnosis and treatment. Dr. Real de Asua, an internist and hospitalist from Madrid, hopes to advance clinical ethics as a discipline in Spain. Working with Dr. Fins and Drs. Matthew McCarthy and Ezra Gabbay, he is participating on a project to better define ethical issues that emerge in hospitalist medicine. Dr. Wright a trained sociologist and a 2016 graduate of Yale Law School is pursuing scholarship in medical ethics, sociology, and the law as an investigator in the Consortium for the Advanced Study of Brain Injury (CASB). She holds a joint appointment as a Fellow in Law at Yale Law School and is funded through the generous support of the Jerold B. Katz Foundation.

Dr. Inmaculada de Melo Martin, who has been working on questions regarding genetic identity, recently completed a new book on reproductive technologies, through her collaborations with the Center for Reproductive Medicine at Weill Cornell Medicine led by Dr. Zev Rosenwaks who has been most supportive of Dr. de Melo Martin's scholarship. Her new volume *Rethinking Reprogenetics: Enhancing Ethical Analyses of Reproductive Technologies* is published by Oxford University Press.

Our case consult volume

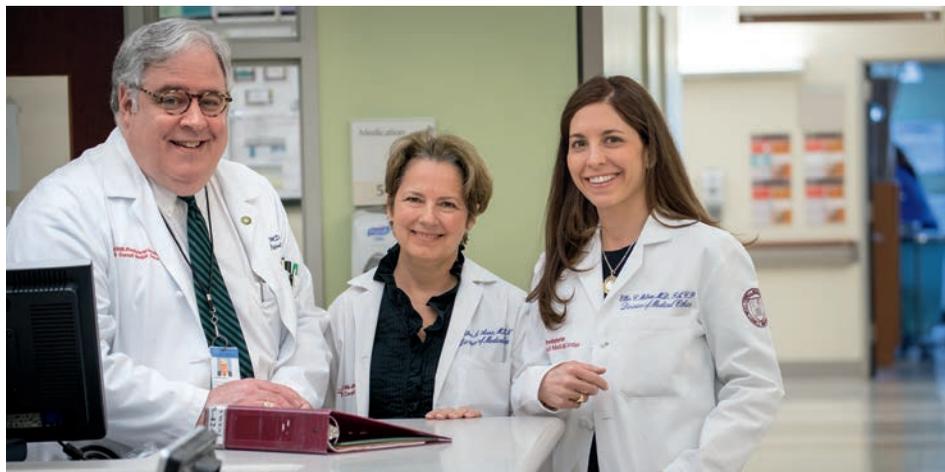
makes us one of the most active
Ethics Consultation Services in the
United States.

Dr. Ellen C. Meltzer, with a grant from the Arnold Gold Foundation, has been focused on medical education and development of a novel curriculum that promotes empathic communication skills and patient-centered decision-making for clinicians. With a matching award from the Weill Department of Medicine, this collaborative effort included Dr. Fins, Division Chief, Dr. Lia Logio, the department's Vice Chair for Education, and Dr. Judy Tung, Chair of Medicine at NYP/Lower Manhattan Hospital. A jointly authored paper has been accepted for publication in the *Journal of Graduate Medical Education*. Dr. Meltzer has brought her growing expertise with standardized patients into the Weill Cornell new curriculum to great effect.

Dr. Pablo Rodriguez del Pozo, Associate Professor of Medical Ethics in Medicine in Doha, Qatar, continues to explore cross-cultural issues and medical education. He is leading a project funded by the Qatar National Research Foundation exploring the rights of persons with disabilities to inform the Qatari legal system. This multinational project involves the Weill Cornell Medical College in Qatar, Qatar University, the Institute of Human Rights at Carlos III University in Madrid, and the Division of Medical Ethics, Weill Cornell Medicine, with Dr. Fins collaborating.

Dr. Fins continues another fruitful collaboration with Dr. Nicholas D. Schiff, Jerold B. Katz Professor of Neurology and Neuroscience, as they co-direct the Consortium for the Advanced Study of Brain Injury at Weill Cornell and Rockefeller University. CASBI's goal is to elucidate mechanisms of recovery and develop public policy to meet the needs of these patients and families. Over the past year, Dr. Fins has expanded the reach of CASBI through his appointment at Yale Law School as the *Solomon Center Distinguished Scholar in Medicine, Bioethics and the Law*. Work with Yale Law Students and Weill Cornell post-doctoral associate Megan Wright, JD, PhD, Dr. Fins has pioneered legal scholarship advancing the rights of patients with severe brain injury. Their work has resulted in numerous law review and policy papers (e.g., *The Journal of Law Medicine and Ethics* and *The Yale Journal of Health Policy, Law, and Ethics*). Dr. Schiff is PI on an NIH Brain Initiative grant on the use of

Deep Brain Stimulation in severe brain injury. Dr. Fins is a co-investigator on the project and has received an NIH ethics supplement to study the experiences of subjects and families participating in this clinical trial. CASBI is supported by grants from NIH and through the generosity of the Jerold B. Katz Foundation.



L to R: Dr. Joseph Fins, Cathleen Acres, R.N., Dr. Ellen Meltzer

Over the past year Dr. Fins was honored with the following distinguished lectureships: *The Reva Greenberg Lecture* with receipt of *The Dr. Mary Ann Quaranta Distinguished Palliative Care Ethicist Award* (Collaborative for Palliative Care); *The Daniel W. Foster, M.D. Lectureship in Medical Ethics* (UT Southwestern Medical Center); *The Marialuisa Lectureship for Life* (Ohio State University and Houston Methodist Hospital and Research Institute); and *The Lowell Goldsmith Lecture* (Association of Professors of Dermatology). Dr. Fins was named an Ambassador Fellow of the New York Academy of Medicine and received the Distinguished Service Award from the American Society for Bioethics and Humanities on October 7, 2016 in Washington, D.C.

Clinical Ethics Fellowship Program

Joseph J. Fins, M.D., FACP
Program Director

This fellowship in clinical and research ethics is part of the New York-Houston Medical Ethics Consortium, which brings together Houston Methodist Hospital, Baylor College of Medicine, Weill Cornell Medicine and the NewYork-Presbyterian Healthcare System.

Nephrology and Hypertension



Manikkam Suthanthiran, M.D.
Chief, Division of Nephrology and Hypertension

Chief, Department of Transplantation Medicine and Extracorporeal Therapy

Stanton Griffis Distinguished Professor of Medicine

Professor of Medicine

Professor of Biochemistry

Professor of Medicine in Surgery

Weill Cornell Medical College

Attending Physician

NewYork-Presbyterian Hospital

The Division of Nephrology and Hypertension is committed to the tripartite mission of patient care, research, and education. A combination of resources has ensured our success, including continuous NIH funding over 3 decades, a clinical immunogenetics laboratory, a self-supported hypertension clinical practice, and support from Weill Cornell Medicine, NewYork-Presbyterian and philanthropy. Our clinical excellence is the product of making patients our highest priority, while effectively translating bench discoveries to the bedside and applying evidence from clinical trials into compassionate clinical practice.

We provide compassionate, comprehensive, state-of-the-art care to each patient afflicted with kidney disease and/or high blood pressure. We have self-organizing teams for each critical area of nephrology: transplantation medicine, dialysis, apheresis, hypertension, clinical nephrology (e.g., diabetes and metabolic renal disease), cancer nephrology, critical care nephrology, acute kidney injury and cardio-renal syndromes, nephropathology and obstetrics nephrology. Scope of service includes renal consultation services, inpatient renal medicine service, dialysis therapy, and kidney and pancreas transplantation services.

Our nephrologists work collaboratively with nephrologists with primary appointment at The Rogosin Institute and the kidney transplant surgeons in the Department of Surgery to manage our transplant recipients with highly personalized therapies to protect the transplanted organ while

helping to reduce the toxic side effects of anti-rejection drugs. Our transplant physician scientists have made pioneering discoveries regarding the mechanisms of action of anti-rejection drugs used in the treatment of transplant recipients, noninvasive molecular tests to personalize immunosuppressive drug therapy of transplant patients, and minimize the need for the invasive biopsy procedure.

The kidney disease program has been consistently rated in the top 5 by *US News & World Report* (Ranked 4th in 2017), and is the highest ranked program among the Medical subspecialties at NewYork-Presbyterian Hospital (NYP). The kidney transplantation program at Weill Cornell Medicine is a significant contributor to NYP's transplantation program being ranked number 1 in the U.S. for the last ten years, and its translational research component is helping to transform care for transplant recipients. More than 200 kidney transplants are performed annually at our center with excellent patient and graft survival rates. The most recent adult (18+) one-year graft survival of living donor kidney graft was 98.58% and the one-year graft survival of deceased donor kidney graft was 91.05 % and these exemplary outcomes are the all the more impressive in light of our center transplanting high-risk patients (Data Source: *Scientific Registry of Transplant Recipients*).

The first kidney transplant in the New York tri-state region was performed at our center in October 1963; more than 4,000 kidney transplants have been performed since the center's inception. Through the years, several innovations in transplantation have been introduced by our transplant physicians such as: blood type (ABO) incompatible kidney transplants; kidney transplantation across a positive cross-match; minimizing the amount of drugs patients need for successful transplantation; development of treatment protocols to reduce serious post-transplant complications (i.e., infection and malignancy); and, significantly, the development of noninvasive molecular assays for assessing transplant status and reducing the need for an invasive biopsy procedure and helping to personalize immunosuppressive therapy.

Our hypertension Center is one of a kind in the U.S., and has discovered and implemented clinical therapies that are personalized for the

Our clinical excellence is the product of making patients our highest priority, while **effectively translating bench discoveries to the bedside** and applying evidence from clinical trials into compassionate clinical practice.



individual patient, moving away from a one-size-fits-all approach. Our Hypertension faculty pursue innovative research, including pregnancy-induced hypertension, the mind-body link in hypertension, and personalized drug therapy for hypertension control. Internationally acclaimed, our Hypertension Consultative practice continues to thrive under the direction of Dr. Phyllis August, Ralph A. Baer Professor of Medical Research, and with unique and complementary expertise provided by Dr. Mark S. Pecker, Professor of Clinical Medicine, Dr. Samuel J. Mann, Professor of Clinical Medicine, and Rosemerie Marion, ANP, Nurse Practitioner. In 2016, Dr. Line Malha, an Instructor in Medicine who had trained with Dr. August in obstetric nephrology, joined the division and has already had a significant impact in furthering the excellence of our hypertension center.

Dr. Mary Choi's fundamental studies should not only yield key insights into mechanisms underpinning kidney injury, but also will help to identify novel therapeutic targets for the prevention of progression of kidney injury. The multifunctional cytokine transforming growth factor beta (TGF-beta) is considered a major player in kidney disease and health, and Dr. Choi's seminal studies have led to the cloning and characterization of the cell surface receptors for TGF-b1; delineation of key intracellular mediators of TGF- β signals; and resolution of glomerular endothelial cell proliferation and differentiation. Her original contributions have resulted in a greater understanding of the molecular mechanism of tissue injury, inflammation, and fibrosis as they pertain to the pathogenesis of chronic kidney disease. Her laboratory has successfully resolved mechanisms by which TGF- β 1 elicits key

Nephrology and Hypertension

cytoprotectants, such as heme oxygenase-1, and carbon monoxide and protection from oxidative stress and kidney injury via activation of autophagy. Dr. Choi's research has been supported continuously by highly competitive NIH awards, and she is a PI, Co-PI, and Co-Investigator on multiple NIH grants.

The Division Chief, Dr. Manikkam Suthanthiran, directs a highly productive, NIH-funded world-renowned research Laboratory of Immunogenetics and Transplantation. The division has pioneered the development of gene expression profiling for the noninvasive diagnosis and prognostication of acute rejection in renal allografts, and it has contributed to several landmark studies in organ transplantation such as elucidation of the genetic signature of rejection and tolerance. Research in the laboratory have been NIH funded continuously for 30-plus years with recent NIH awards that include a R37 Administrative Supplement to the NIH MERIT award (PI: M. Suthanthiran); and a Mendez Foundation award for state-of-the-art profiling of human kidney allograft recipients (PI: M. Suthanthiran).

Our faculty's dedication and contributions to the medical community have been duly recognized and reflected in part by the following awards to our faculty just this past year: Dr. P. August was presented with the prestigious *Miriam G. Wallach Award for Excellence in Humanistic Medical Care*,

which recognizes physicians who exemplify altruistic and humanistic patient care; appointed as a member of its Nephrology Board Exam Committee - a noteworthy honor that recognizes Dr. August's exemplary contributions to the profession; Dr. M. Choi was honored at the 2017 Brooklyn Go Red For Women Luncheon; Dr. L. Malha received the *Zuspan Award Certificate* for the most outstanding clinical science work in relation to the study of hypertension in pregnancy for her presentation entitled Renin-Angiotensin-Aldosterone Profiles Predictive of Superimposed Pre-Eclampsia. Dr. T. Muthukumar was elected to the highly prestigious *American Society for Clinical Investigation (ASCI)*, one of the nation's oldest and most respected medical honor societies. Members of the ASCI are leaders in their respected fields and are recognized by their peers for outstanding records of scholarly achievement in biomedical research.

The nephrology faculty teaching contributions include the highly rate Health, Illness, and Disease Course for the Weill Cornell Medical students at the New York campus and at the Qatar campus. A daily educational conference ensures faculty and fellows practice evidence based medicine as well as receive the needed continuing medical education credits. The educational emphasis is reflected in part by 100% pass rate in the ABIM Nephrology subspecialty; the scholarship of our trainees and faculty are demonstrated by presentation of original research at every National and International meetings related to Nephrology and Transplantation. Our faculty hold leadership positions not only locally but also nationally and have significant commitment to academic citizenship. Our full time faculty are invited speakers at National and International meetings in addition to delivering talks at leading universities around the world.

Very impressively, our faculty published 39 peer-reviewed articles since July 2015 alone.

Nephrology Fellowship Program

Phyllis August, M.D., MPH
Program Director

Our highly competitive 2-year nephrology fellowship program is designed to provide comprehensive training in all aspects of kidney disease including acute and chronic kidney failure; end stage kidney disease; hemodialysis including home hemodialysis; peritoneal dialysis; apheresis; kidney and Kidney and pancreas transplantation; hypertension; glomerulopathys; onconeurology, obstetric nephrology, kidney stones, polycystic kidney disease, and metabolic disorders including acid base and fluid and electrolyte disorders. A third and fourth year are available for additional research training.

Public Health Programs

The Division of Public Health Programs delivers integrated multidisciplinary care aimed at increasing the quality and experience of care for patients with trauma and addiction. Three outpatient programs provide medical, psychiatric and substance abuse treatment to a variety of patients with substance use problems including alcohol, marijuana, nicotine, cocaine, heroin and prescription medication. On-site medical, psychiatric, trauma treatment and social services promote and accelerate patients' progress toward recovery. Consultation services are available for expert evaluation, diagnosis, treatment and referral for patients with substance use disorders being treated at the NewYork-Presbyterian Hospital.

Outpatient Treatment Programs include: The Midtown Center for Treatment and Research, The Headstrong Project, and the Vincent P. Dole Institute for Treatment and Research.

The Midtown Center for Treatment and Research is located at 56 West 45 Street, 9th Floor, NYC, 10031. It is an outpatient structured drug treatment program providing multidisciplinary alcohol and drug treatment with integrated psychiatric and social services. Available services include outpatient suboxone detoxification and maintenance for opiate dependency (prescription pain medication and heroin), trauma treatment (EMDR and CBT), psychiatric care, DUI program, anger management, and other services. Patients are carefully evaluated and collaborate on an individualized treatment plan, including groups, individual treatment, urine and other toxicology, psychiatric evaluation and care when needed. Patients needing primary and specialty medical care have access to CIMA and comprehensive subspecialty care including HCV, HIV, cardiology, pulmonary, nutritional and other services.

The Headstrong Project is located at 409 East 60th Street, 3rd Floor, NYC, 10065. It is a PTSD program for combat veterans. It has attracted national recognition for its highly effective evidence-based treatment, provided

free and confidential for returning Iraq and Afghanistan combat veterans living in the NYC and Tri-State Area. The treatment is individually tailored and designed for each veteran in support of The Headstrong Project's motto: "Hidden Wounds Can Be Healed." On September 29, 2014, members of the division were on hand to ring the bell at the New York Stock Exchange (NYSE) in recognition of The Headstrong Project. The ringing of the NYSE opening bell helped to raise awareness and support for Iraq and Afghanistan veterans who suffer from PTSD. The Headstrong Project was recently selected by Morgan Stanley as one of nine recipients to receive the Morgan Stanley Strategy Challenge. The "Challenge" will assist the Headstrong Program in NYC to replicate its model of treatment for PTSD in post-9/11 veterans who live in other cities throughout the United States. Morgan Stanley's Strategy Challenge unites top-performing employees from across its firm for an 8-week pro bono consulting project that helps nonprofit partners to achieve their potential and amplify impact.

Vincent P. Dole Institute for Treatment and Research is located at 503 East 70th Street, NYC, 10021. It is part of the NewYork-Presbyterian Hospital's Ambulatory Care Network. Both the Midtown Center and the Vincent P. Dole Institute serve as sites for the study of the prevention and treatment of dependency diseases, as well as outreach, evaluation, and treatment of patients with



Ann B. Beeder, M.D.
Chief, Division of Public Health Programs

Associate Professor of Clinical Medicine
Associate Professor of Clinical Psychiatry at the Weill Medical College

Associate Attending Physician
NewYork-Presbyterian Hospital

The overall mission of the Division of Public Health Programs is to **provide innovative, patient centered integrated treatment** to underserved and vulnerable people.

Public Health Programs

hepatitis C. Research studies are underway on the integrated care model, epidemiology and treatment of hepatitis C infection in drug users and understanding immunity in opioid users.

Additionally, *The Employee Assistance Program Consortium (EAPC)*, serves the approximately 36,000 employees of Weill Cornell Medical College, Rockefeller University, NewYork-Presbyterian Hospital/ Weill Cornell Medical Center, Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center. The program provides free and confidential evaluation, crisis intervention, and referrals for a wide range of problems

Dr. Ann Beeder



affecting employees. The EAP also offers free group sessions on topics such as stress reduction, caring for elderly parents, and a variety of mental health topics.

The overall mission of the Division of Public Health Programs is to provide innovative, patient centered integrated treatment to underserved and vulnerable people. Clinical care includes the treatment of PTSD in returning Iraq and Afghanistan combat veterans, healthcare workforce mental health treatment and referral, medication assisted treatment (MAT) for opioid users and alcohol and substance use treatment. Faculty provide education and conduct research on topics related to substance use issues, including studying the integrated care model, epidemiology and treatment of Hepatitis C infection in drug users, understanding immunity in opioid users and other topics. A study is underway with Division Chief, Dr. Beeder, serving as a co-Principal Investigator, and Dr. Ronald Crystal, Chairman, Genetic Medicine at WCM, on a Phase I clinical trial that is exploring a vaccine model in patients with cocaine dependency disorder.

The division deploys staff to the Center for Special Studies on West 23rd Street to offer on-site drug and alcohol treatment at the HIV/AIDS Program. This includes screening and assessment, individual and group therapy. Clients from West 23rd Street may also attend any of the services at the West 45th Street site.

The division's new contract (awarded in 2015) with NYC DOHMH to provide specialized drug and alcohol treatment to adolescents, The Experience Center, has been thriving. The Center uses existing staff, new staff members, creative arts therapists, and an outdoor recreation facilitator to engage the youth in these more activity-based modalities.

Pulmonary and Critical Care Medicine

The Division of Pulmonary and Critical Care Medicine employs advanced expertise in the diagnosis and treatment of patients with all types of respiratory disorders, including those related to sleep. Physicians of Weill Cornell Pulmonary Associates provide diagnostic and therapeutic services in a state-of-the-art medical facility. The division provides 24-hour, in-hospital coverage of the Medical Intensive Care Unit (MICU) at Weill Cornell Medicine and at NYP/Lower Manhattan Hospital. The Bronchoscopy Suite offers state-of-the-art patient care, including Endobronchial Ultrasound (EBUS), Navigational Bronchoscopy, and chest tube and pleurx catheter placement. MICU clinical care encompasses both daytime and expanded overnight services. The Pulmonary Inpatient Consult Service provides rapid, expert clinical care seven days a week, including the provision of an Outreach Service for patients who are critically ill outside of the ICU. It upgrades continuity of care for patients who are transitioning from inpatient to outpatient management and has led to successful interdisciplinary collaborations with specialists throughout the institution. The division, jointly with the Columbia campus, has been designated by the Pulmonary Fibrosis Foundation (PFF) as a Center of Excellence.

Multiple clinical endeavors in the division continue to thrive. The Pulmonary Procedure Service, directed by Dr. Ben-Gary Harvey, provides innovative diagnostic and therapeutic services for the diagnosis and management of lung cancer, pulmonary fibrosis, and lung infection. The Pulmonary Function Laboratory, led by Dr. Abraham Sanders, remains a vital component of the division's continuum of care via expert and timely diagnostic services. The PEAC team (Pulmonary Embolism Advanced Care) provides treatment of pulmonary embolism via a joint venture between the Division of Pulmonary and Critical Care Medicine, the Division of Cardiology, and the Division of Interventional Radiology. Led by Medical Director, Dr. Ana Krieger, and other experts, the Weill Cornell Center for Sleep

Medicine (run jointly by the Weill Department of Medicine's Division of Pulmonary and Critical Care Medicine and the Department of Neurology) provides evaluation and treatment for the full range of pulmonary and non-pulmonary sleep problems, employing multidisciplinary specialists and carrying out cutting-edge federally-funded research projects. Dr. David Berlin provides an important institutional role as the Vice Chair of Medicine for the NewYork-Presbyterian Hospital-Weill Cornell Medical Healthcare Systems.

The division's ever-expanding research portfolio ranges from interstitial and obstructive lung diseases, pneumonia and lung cancer, to sleep medicine and genetic medicine. The division's many physician-scientists are participating in clinical as well as basic mechanistic investigations, both independently and with collaborators.

As a key participant in numerous NHLBI-sponsored COPD studies, Dr. Martinez, Division Chief, defined the role of lung volume reduction surgery, chronic macrolide therapy, statin therapy, and long-term oxygen therapy. He has also been involved in defining the immunological basis of acute exacerbations, the role of innovative small airways imaging methods, and the role of COPD endotypes. Similarly, with NHLBI support, he defined the optimal approaches to diagnosing idiopathic interstitial pneumonias, the imaging and biochemical approaches to prognostication, and has investigated the role of various



Fernando J. Martinez, M.D.
Chief, Division
of Pulmonary and Critical
Care Medicine

Bruce Webster Professor of
Internal Medicine

Professor of Clinical Medicine
Weill Cornell Medical College

Attending Physician
NewYork-Presbyterian
Hospital

The division's ever-expanding research portfolio ranges from interstitial and obstructive lung diseases, pneumonia and lung cancer, to sleep medicine and genetic medicine.

Pulmonary and Critical Care Medicine



Pulmonary and Critical Care Fellowship

Meredith Turetz, M.D.
Program Director

Robert Kaner, M.D.
Associate Program Director

A 3-year comprehensive program with 12 fellows. Curriculum includes rotations on the consultative pulmonary service, doing advanced pulmonary procedures, and participating in rotations in the medical, neurologic, and surgical intensive care units, and to care for inpatients and outpatients under supervision of the division's clinical faculty. All fellows conduct at least 18 months of research, spanning a broad range of expertise (e.g., bench laboratory research, health service and/or patient centered investigation). Key investigative areas include cellular biology and molecular immunology, lung and vascular injury, human pathophysiology, and epidemiology and bioinformatics. Faculty mentoring across the tri-institutional setting provides an ideal training environment.

therapeutic approaches to IPF. More recently, he has studied the interaction between dysbiosis in the lung microbial community and disease progression. This has led to an NHLBI funded study of an innovative therapeutic approach targeting IPF progression.

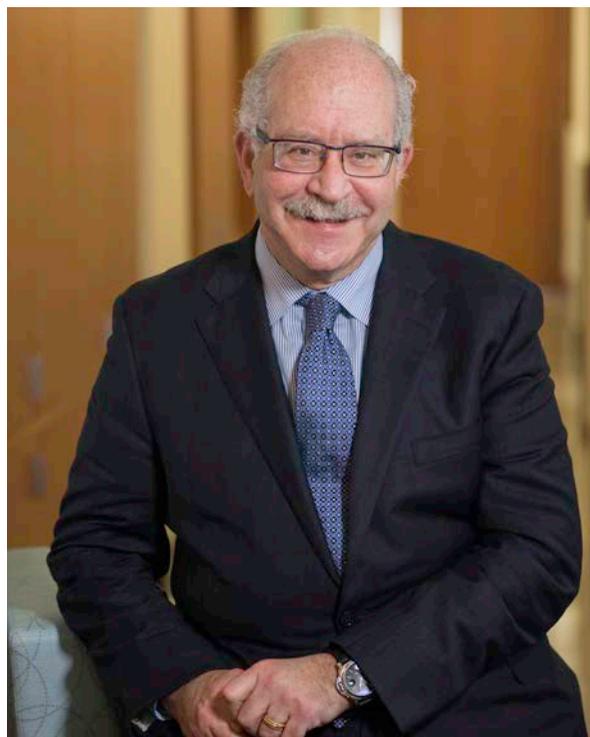
Dr. Augustine M.K. Choi, continues to lead an extremely active laboratory that, in part, leads the global investigative carbon monoxide (CO) community in understanding this complex biological pathway. His laboratory has successfully translated these findings as they lead the design and successful completion of Phase I and Phase II trials targeting the use of inhaled CO in human disease. A former Chairman of the Weill Department of Medicine, Dr. Choi was appointed to Dean of the Weill Cornell Medicine College as of January 2017.

Dr. Renat Shaykhiev is focused on airway epithelial stem cells, epithelial-mesenchymal interactions, epithelial-immune interactions and innate immunity in the lung, and pathogenesis of airway remodeling in human lung disease. Dr. Heather Stout-Delgado is focused on the implications of an aging immune system and its impact on infections and respiratory inflammatory disorders. Dr. Soo Jung Cho has made key observations characterizing the role of impaired glucose metabolism and progressive lung fibroproliferation. Dr. Suzanne Cloonan leads a research program that is centered on the role of iron metabolism in normal and diseased lung. Dr. Kiichi Nakahira has established an innovative translational investigative program examining the role of mitochondrial dysfunction in sepsis.

Our clinical investigative efforts are strong and growing. Dr. Robert Kaner remains actively involved in basic and clinical research programs in Interstitial Lung Disease (ILD). He is the principal investigator of numerous industry and federally-funded therapeutic trials exploring innovative therapeutic approaches to patients with ILD. Dr. Ben-Gary Harvey continues his study on a new therapy for COPD, and Dr. Michael Niederman has begun clinical investigation

protocols related to pneumonia in the ICU and in the community. There is a growing interest in palliative care among critically ill patients, and Dr. Lindsay Lief has partnered with Dr. Holly Prigerson to obtain an R21 grant to study patient and provider attitudes at the end-of-life in the ICU. Dr. Bradley Hayward is developing a collaboration with Geriatrics and other divisions in the clinical aspects of palliative care. Translational clinical research in the ICU is being led by Dr. Edward Schenck who is expanding a clinical database that links detailed clinical data with biological patient samples to study inflammation and lung injury in critically ill patients with sepsis.

The division's educational mission involves a multifaceted program for the training of students, residents, and fellows. Dr. Meredith Turetz, Assistant Professor of Medicine, has been appointed as the new Program Director for the division's fellowship and serves along with Associate Program Director, Dr. Robert Kaner. The former Program Director, Dr. Dana Zappetti, was recently named Associate Dean for Student Affairs at Weill Cornell. Dr. Kapil Rajwani continues to work on simulation programs for providing ACLS (Advanced Cardiovascular Life Support) and the insertion of Central Venous Catheters. The division hosts the William Briscoe Lung Club where fellows from the training programs throughout the area present their scientific work. Dr. Abraham Sanders hosts a monthly joint Clinical Case Conference where affiliates present complicated pulmonary cases. Dr. Robert Kaner hosts a monthly multidisciplinary conference on diagnosis and management of ILD.



Dr. Michael Niederman

2016 was a banner year for honors given to faculty in the Division of Pulmonary and Critical Care Medicine. Dr. Niederman received the Murray Kornfeld Memorial Founders Award from the American College of Chest Physicians, and he was also featured in the ISICEM News regarding his breakthrough work on the prevention of ventilator-associated pneumonia.

Dr. Fabio Giron, Assistant Professor of Clinical Medicine, and Dr. Kapil Rajwani, Assistant Professor of Medicine, received the Physician of the Year Award given by the Department of Nursing at NewYork-Presbyterian/Weill Cornell Medical Center.

The division's educational mission involves a multifaceted program for the training of students, residents, and fellows.



Mary K. Crow, M.D.
Chief, Division of Rheumatology

Joseph P. Routh Professor of
Rheumatic Diseases in Medicine

Professor of Medicine
Weill Cornell Medical College

Benjamin M. Rosen Chair in
Immunology and Inflammation
Research

Attending Physician
NewYork-Presbyterian Hospital

Based at Hospital for Special Surgery (HSS), the Division of Rheumatology is a national and international leader in clinical care of patients with autoimmune, inflammatory and musculoskeletal conditions; research that has contributed to identification of novel therapeutic targets and new understanding of disease mechanisms; and innovative approaches to medical education and education research. The division has responsibility for all of the pre- and post-surgical medical care of more than 30,000 patients per year who undergo orthopaedic surgery procedures at HSS. The large volume of patients treated at HSS has enabled HSS clinicians and researchers to develop nearly 50 patient registries with an enrollment of more than 84,000 patients. Some of the registries involve storage of biologic samples that provide valuable research resources that are shared with collaborators nationally and internationally.

Achieving optimal outcomes for patients is the goal of our 25 active consultative rheumatology practitioners, treating disorders ranging from osteoarthritis and rheumatoid arthritis (RA) to the most complex patients with lupus, vasculitis, systemic sclerosis or diagnostic dilemmas. A Practice Effectiveness Committee, co-led by Drs. Theodore Fields, Jessica Gordon and Senior Administrative Director Jessica Kovac, is implementing the transformation of the division's clinical practice operations with the goal of establishing efficient and value-focused care across all practices. Dr. Steven Magid serves

as Chief Medical Information Officer for HSS, overseeing implementation of a new medical information technology system in the hospital and office practices. Optimal preparation and post-operative management of patients undergoing orthopedic surgery at HSS is ensured under the leadership of Dr. Linda Russell, Director of Perioperative Medicine.

Rheumatology clinics at HSS represent an essential training component of our rheumatology fellowship programs. The adult rheumatology training program is directed by Drs. Anne Bass and Jessica Berman, and the pediatric rheumatology training program is directed by Dr. Alexa Adams. Fifteen adult and pediatric rheumatology fellows provide continuity of care for the patients seen in the clinics, with involvement of all rheumatology faculty members as supervisors and teachers. A weekly clinic for evaluation of new patients, and specialty clinics focused on inflammatory arthritis, lupus and antiphospholipid syndrome, vasculitis and systemic sclerosis provide rheumatology fellows and rotating internal medicine residents with a rich experience in evaluation and management of a full spectrum of rheumatic diseases. A primary care rheumatology clinic, directed by Dr. Hal Whitman and Dr. Dee Dee Wu, is focused on the evaluation of clinical problems typically encountered in the context of primary care medical practices. A rich learning environment is also provided in the multidisciplinary clinic conferences following Monday Inflammatory Arthritis Clinic and Friday Lupus Clinic, which involve discussion of patient management, guided by recent literature and enriched by attendance of representatives from other Weill Cornell specialties. Each rheumatology trainee completes a basic or clinical research project under the supervision of one or more faculty members and with oversight by a mentoring committee. Trainees pursuing a research career are encouraged to apply for peer-reviewed research grant support, and those headed for careers in academic medicine often continue their research in a fourth fellowship year. This strong academic

The large volume of patients treated

at HSS has enabled HSS clinicians and researchers to develop nearly 50 patient registries with an enrollment of more than 84,000 patients.



environment attracts the future leaders in academic rheumatology to its fellowship program.

The division has a long history of leading basic and translational research studies that have elucidated important mechanisms of autoimmune and inflammatory disease and have identified important therapeutic targets. It is also recognized for its strong, productive collaborations among bench scientists and clinicians. Dr. Lionel B. Ivashkiv, Chief Scientific Officer, is supported by several NIH research grants addressing epigenetic mechanisms relevant to regulation of inflammation and bone resorption in rheumatoid arthritis. His lab is making seminal observations on the epigenetic control of cytokine gene expression and osteoclast maturation, and his studies of chromatin modifications are leading to new understanding of how the immune system becomes primed to react efficiently to future microbial or inflammatory stimuli. Dr. Jane Salmon, who serves as the Associate Dean for Faculty Affairs at Weill Cornell Medicine,

has carried out research that identified altered levels of angiogenic factors early in pregnancy in patients who experience adverse pregnancy outcomes. Her group's findings may provide biomarkers that can be used to guide patient management and ultimately improve both fetal and maternal outcomes in patients at risk for complications. Dr. Mary Crow's lab, in collaboration with Dr. Kyriakos A. Kirou, has demonstrated that type I interferon is a central mediator of immune dysregulation and autoimmunity in SLE and has provided insight into the role of additional molecular pathways that are involved in lupus nephritis. Their work has led to a current phase III trial of an anti-interferon receptor antibody in lupus patients.

Members of the Rheumatology Division are leading collaborative clinical research studies focused on risk factors and outcomes of total joint replacement surgery. Together with members of the orthopedic surgery, pathology and research faculty, Drs. Susan Goodman, Vivian Bykerk, Lisa Mandl and others are documenting the biologic characteristics of joint tissue that are associated with rheumatoid arthritis disease flare after total joint replacement. Dr. Goodman is also investigating the socioeconomic factors that impact surgical management of osteoarthritis and is directing a new Center of Excellence that is organizing outcome research in rheumatic disease patients undergoing orthopedic surgical procedures.

Rheumatology Fellowship

Anne R. Bass, M.D.
Program Director

Jessica R. Berman, M.D.
Program Co-Director

The Hospital for Special Surgery (HSS) rheumatology fellowship 3-year program combines a broad-based, in-depth clinical and research experience in order to deliver the highest quality academic training to rheumatology professionals.

Iris Cantor Health Center (IChC)



Orli R. Etingin, M.D.
Director, Iris Cantor Health Center
Vice Chair for Faculty
Lisa and Sanford B. Ehrenkrantz
Professor in Women's Health
Professor of Clinical Medicine
Professor of Clinical Obstetrics
and Gynecology
Weill Cornell Medical College
Attending Physician
NewYork-Presbyterian Hospital

The Iris Cantor Women's Health Center (ICWHC) at 425 East 61st Street in Manhattan offers the most comprehensive array of healthcare services, designed specifically for women, in a single location in New York City. With more than 40,000 square feet of clinical space occupying four floors under one roof, women can access the finest prevention, screening, and treatment services in one convenient location. All of the Center's physicians are full-time faculty members of Weill Cornell Medicine and attending physicians at NewYork-Presbyterian/Weill Cornell Medical Center. A team of internists, gynecologists, radiologists, among many others facilitate, superb coordination.

The Iris Cantor Men's Health Center, for which Dr. Etingin had provided expertise and assistance during the development phase, has grown to encompass both men's health and executive health testing. The contiguity of the Women's Health Center, Men's Health Center, and the new Executive Physical Center, has enabled streamlined care for every type of patient. Located at 425 East 61st Street, the men's health practice enhances the primary care network of Weill Cornell delivering patient care that covers

internal medicine, cardiology, endocrinology, hematology, and urology. It also houses the Department of Urology's Institute for Bladder and Prostate Health. Clinical research collaborations between Men's and Women's Health continue.

The 34th Annual Women's Health Symposium was held on October 19, 2016 at the Citigroup Executive Conference Center in midtown Manhattan. Entitled, "Heads Up," the conference covered concussions and the aging brain with guest speakers Barry Kosofsky, M.D., Ph.D., Chief, Division of Pediatric Neurology, WCM, and Gregory Petsko, DPhil, Director of the Helen and Robert Appel Alzheimer's Disease Research Institute.

The 2017 Women's Health Symposium will feature Weill Cornell speakers David Artis, Ph.D., Michael Kors Professor of Immunology, and Director of The Jill Roberts Institute for Research in Inflammatory Bowel Disease, as well as Conor Liston, M.D., Ph.D., Assistant Professor of Neuroscience and Psychiatry. "Mind, Mood, and Microbiomes: Emerging Connections," will be presented on October 24, 2017.

L to R: Dr. Gregory Petsko, Joan Weill, Dr. Orli Etingin, Dr. Barry Kosofsky



Residents & Fellows

Senior Residents (PGY3)

Alexander Abramowicz, Stony Brook University School of Medicine

Victor Adorno Febles, University of Puerto Rico School of Medicine

Michael Alexander, University of Illinois College of Medicine

Zaid Almarzooq, Royal College of Surgeons in Ireland School of Medicine

Kayley Ancy, University of Texas Medical School at Houston

Harpreet Bhatia, Emory University School of Medicine

Christina Chai, Weill Cornell Medical College

Nicole Cruz, San Juan Bautista School of Medicine

Brett Ehrmann, University of Michigan Medical School

Emily Eichenberger, Duke University School of Medicine

Jaime Fineman, Perelman School of Medicine at the University of Pennsylvania

Catherine Galdun, Rutgers New Jersey Medical School

Michael Gao, University of Michigan Medical School

Joshua Geleris, Ruth and Bruce Rappaport Faculty of Medicine, Technion Israel Institute of Technology

Zachary Hager, Weill Cornell Medical College

Jonathan Huggins, Weill Cornell Medical College

Jared Kirzner, George Washington University School of Medicine

Jerard Kneifati-Hayek, Weill Cornell Medical College

Jason Law, St. Louis University School of Medicine

Dustin Lee, University of Michigan Medical School

Michele Lee, Weill Cornell Medical College

Peggy Leung, University of California, Los Angeles David Geffen School of Medicine

Lily Li Case, Case Western Reserve University School of Medicine

Hana Lim, State University of New York Downstate Medical Center College of Medicine

Reed Magleby, New York University School of Medicine

Derek Mazique, Perelman School of Medicine at the University of Pennsylvania

Tayseer Mosleh, Weill Cornell Medical College-Qatar

Kumar Nair, Columbia University College of Physicians and Surgeons

Joseph Nakhleh, University of Michigan Medical School

Thomas Nicholson, State University of New York Downstate Medical Center College of Medicine

Juan Osorio, Universidad Nacional de Colombia Facultad de Medicina

Raymond Pashun, New York Medical College

Agam Patel, University of Pittsburgh School of Medicine

Parimal Patel, Rutgers New Jersey Medical School

Colin Raelson, Weill Cornell Medical College

Oktay Rifki, University of Texas Southwestern Medical School

Faisal Shaikh, University Tennessee College of Medicine

Ajayram Ullal, Stony Brook University School of Medicine

Prashanth Venkatesh, Weill Cornell Medical College-Qatar

Russell Weg, State University at Buffalo School of Medicine

Junior Residents (PGY2)

Ayman Al Jurdi, Weill Cornell Medical College-Qatar

Joseph Bailey, Loyola University Chicago Stritch School of Medicine

Luis Barraza, New York University School of Medicine



Guillaume Bassil, American University of Beirut

Rebecca Boas, New York University School of Medicine

Josef Brejt, State University of New York Downstate Medical Center College of Medicine

Joseph Chan, Columbia University College of Physicians and Surgeons

Tariq Chukir, Weill Cornell Medical College-Qatar

Angela Condo, Rutgers, Robert Wood Johnson Medical School

Virginia Corbett, Michigan State University College of Human Medicine

Madison Dennis, University of Toronto Faculty of Medicine

Benjamin Diamond, Boston University School of Medicine

Elijah Douglass, New York Medical College

Zachary Epstein-Peterson, Harvard Medical School

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Fangfei Zheng, New York University School of Medicine

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Sarah Barenbaum, Drexel University College of Medicine

Jesse Bertrand, University of Miami

Deep Bhatt, University of Iowa Roy J. and Lucille A. Carver College of Medicine

Rebecca Blank, Icahn School of Medicine at Mount Sinai

Ryan Bober, Sidney Kimmel Medical College at Thomas Jefferson University

Adam Buckholz, University of Virginia School of Medicine

Charlie Buffie, Weill Cornell Medical College

Karen Chiu, University of Pittsburgh School of Medicine

Daniel Choi, University of Michigan Medical School

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Amy Kwon, Weill Cornell Medical College

Perola Lamba, Weill Cornell Medical College-Qatar

Rohan Maniar, Indiana University School of Medicine

Deborah Moon, State University of New York Downstate Medical Center College of Medicine

Filipe Moura, Universidade de Brasília Faculdade de Medicina

Jorge Munoz Pineda, Albert Einstein College of Medicine of Yeshiva University

Mariella Ntamatungiro, Meharry Medical College

Maria Pabon, Universidad Nacional de Colombia Facultad de Medicina

Khanh Pham, University of Massachusetts Medical School

Ilana Prior, Geisel School of Medicine at Dartmouth

Dwindally Rosado-Rivera, San Juan Bautista School of Medicine

Samuel Rotter, University of Wisconsin School of Medicine

Madhav Seshadri, Emory University School of Medicine

Gabriel Shaya, University of Miami Miller School of Medicine

Zachary Sherman, Icahn School of Medicine at Mount Sinai

Melanie Smith, University of California, San Francisco School of Medicine

Amin Soltani, Tehran University of Medical Sciences

Zachary Strasser, Weill Cornell Medical College

Colleen Tenan, New York University School of Medicine

Timothy Tiutan, University of Arizona College of Medicine

Marie Will, Weill Cornell Medical College

Samuel Yamshon, University of California, Davis School of Medicine

Diane Zisa, State University of New York Downstate Medical Center College of Medicine

Professional Pursuits

Subspecialty Fellowship Appointments

Allergy and Immunology

Lily Li, *Brigham and Women's Hospital*

Cardiology

Raymond Pashun, *Hofstra Northwell School of Medicine*

Agam Patel, *Texas Heart Institute*

Colin Raelson, *Dartmouth-Hitchcock Medical Center*

Oktay Rifki, *Albert Einstein College of Medicine & Montefiore Medical Center*

Prashanth Venkatesh, *UCLA Medical Center*

Cardiovascular Disease

Ajayram Ullal, *Harbor-UCLA Medical Center*

Gastroenterology

Rachel Niec, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Russell Weg, *University of Rochester*

Geriatrics and Palliative Care

Michele Lee, *Mount Sinai Medical Center*

Hematology and Medical Oncology

Victor Adorno Febles, *New York University Medical Center*

Joseph Chan, *Memorial Sloan-Kettering Cancer Center*

Nicole Cruz, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Ryan Moy, *Memorial Sloan-Kettering Cancer Center*

Jimmy Zhao, *Memorial Sloan-Kettering Cancer Center*

Infectious Disease

Jonathan Huggins, *University of Pennsylvania*

Reed Magleby, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Nephrology

Jason Law, *University of California San Francisco*

Pulmonary and Critical Care Medicine

Michael Alexander, *Northwestern University*

Tayseer Mosleh, *Mount Sinai Medical Center*

Thomas Nicholson, *Johns Hopkins University*

Christopher Parkhurst, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Faisal Shaikh, *UCLA Medical Center*

Other Professional Pursuits

Chief Residencies

Zaid Al Marzooq, Chief Medical Resident, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Harpreet Bhatia, Chief Medical Resident, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Emily Eichenberger, Chief Medical Resident, *Memorial Sloan-Kettering Cancer Center*

Zachary Epstein-Peterson, Chief Resident, *Memorial Sloan-Kettering Cancer Center*

Peggy Leung, Ambulatory Chief Resident, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Hana Lim, Chief Medical Resident, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Derek Mazique, QI Chief Resident, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Hospitalists

Alexander Abramowicz, *University of Colorado Denver*

Christina Chai, *University of Pennsylvania*

Catherine Galdun, *Memorial Sloan-Kettering Cancer Center-Basking Ridge*

Joshua Geleris, *Columbia University Medical Center*

Zachary Hager, *Duke University Medical Center*

Jared Kirzner, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Jerard Kneifati-Hayek, *New York University Medical Center*

Kumar Nair, *Alaska Native Medical Center*

Joseph Nakhleh, *Alta Bates Summit Medical Center*

Parimal Patel, *NewYork-Presbyterian Hospital/Weill Cornell Medical Center*

Academic Appointments

Kayley Ancy, Assistant Professor of Medicine, *Baylor College of Medicine*

Brett Ehrmann, Instructor in Medicine, *Weill Cornell Medicine*

Jaime Fineman, Instructor in Medicine, *Temple University*

Michael Gao, Instructor in Medicine, *Weill Cornell Medicine*

Dustin Lee, Instructor in Medicine, *Weill Cornell Medicine*

Financial Report

The Weill Department of Medicine continued to experience solid financial growth in fiscal year 2016 with total operating funds equaling \$332.2 million, as compared with \$313.0 million in fiscal year 2015.

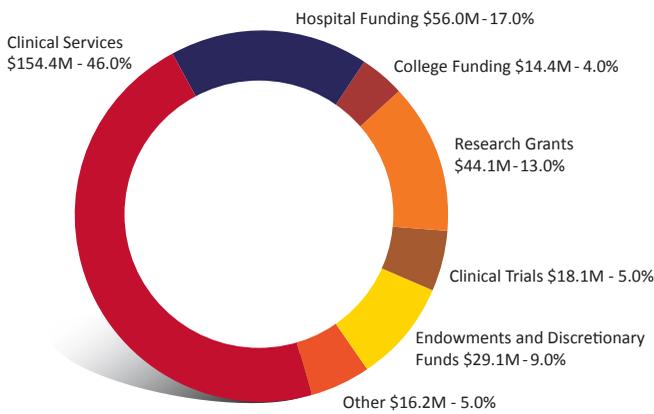
The Department’s clinical enterprise revenue increased by 2.35% over fiscal year 2016. Patient care activities, as measured in outpatient encounters, remained steady at 279,753. Work RVUs remained relatively unchanged at 1,102,112. The increase in revenue is mainly attributed to growth in infusion activities (\$1.3M) and expansion of the Hospitalist program (\$1.9M).

The Department’s research grants activity in 2016 equaled \$44.1 million. Industry sponsored research increased by 8.39% in 2016 to \$18.1 million.

Medical education mission activities, which encompasses medical student education, the internal medicine residency program, and our many fellowship programs, continued to be a priority for the Weill Department of Medicine during fiscal year 2016.

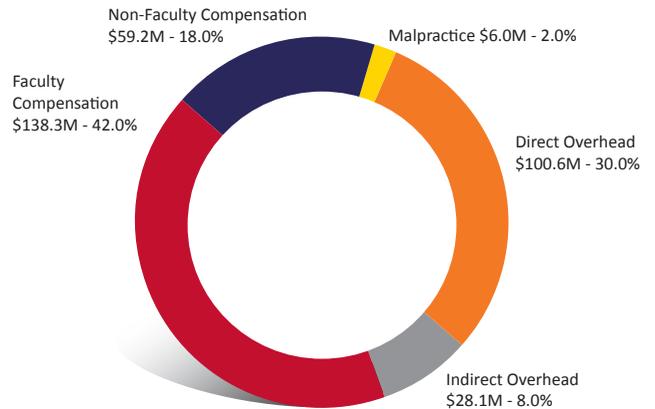
The Department’s largest expense is its faculty, management, and staff costs, which consume almost 60% of the total annual budget. The remaining 40% of expenses is distributed among direct expenses (30%), indirect expenses (8%), and malpractice liability insurance (2%).

Sources of Funds
(In Millions)



All Sources of Funds: \$332.2 Million

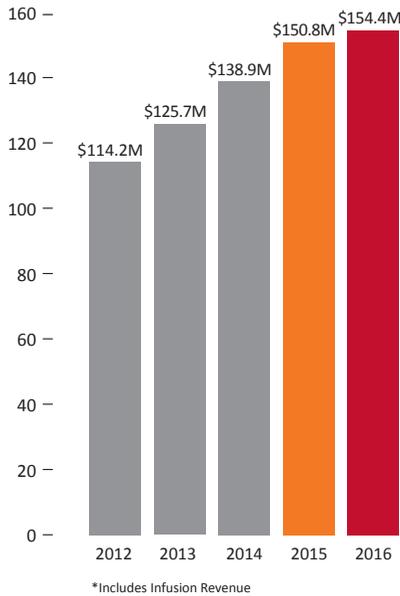
Use of Funds
(In Millions)



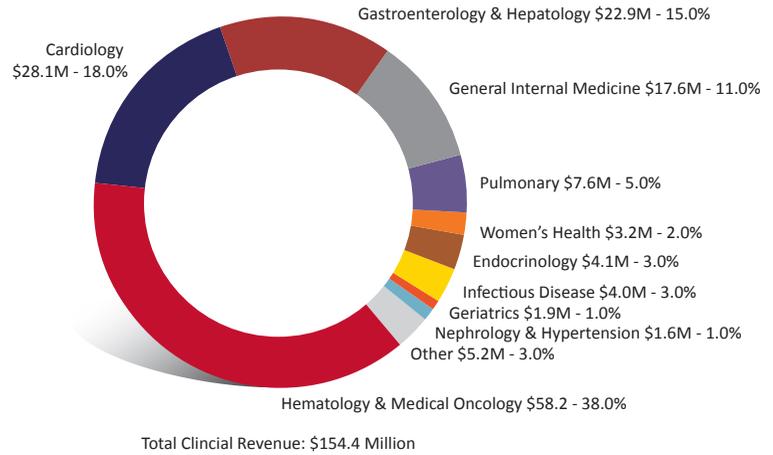
Total Use of Funds: \$332.2 Million

Financial Report

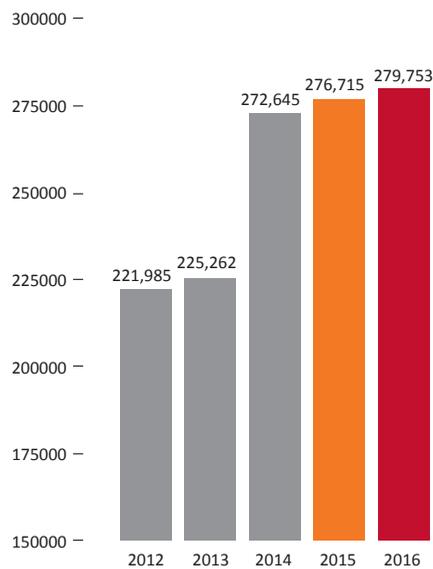
Annual Clinical Revenue Trend
(In Millions)*



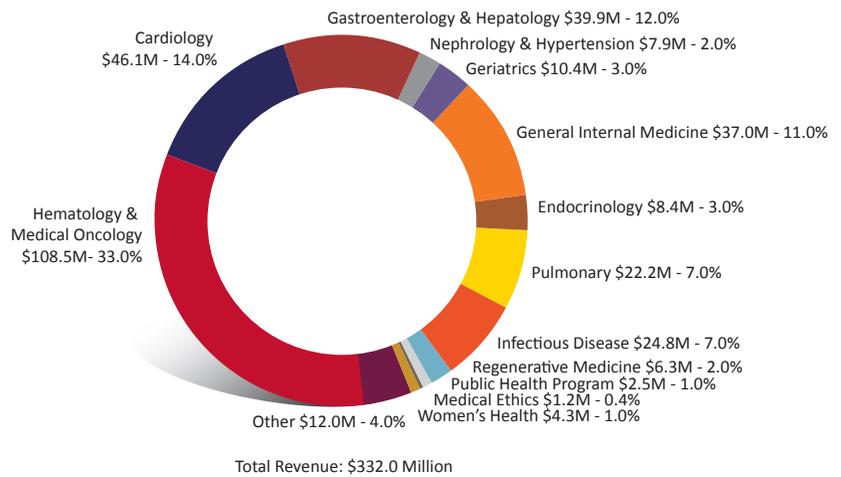
Clinical Revenue by Division
(In Millions)



Annual Outpatient Visits



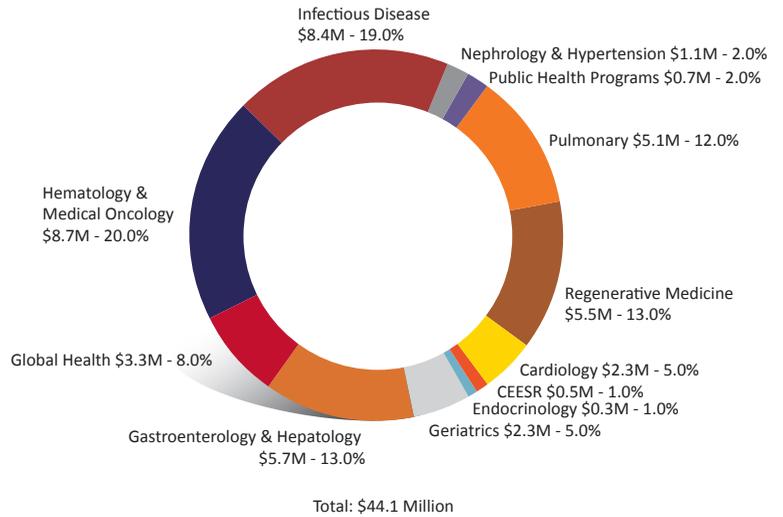
All Funds by Division Total Revenue
(In Millions)



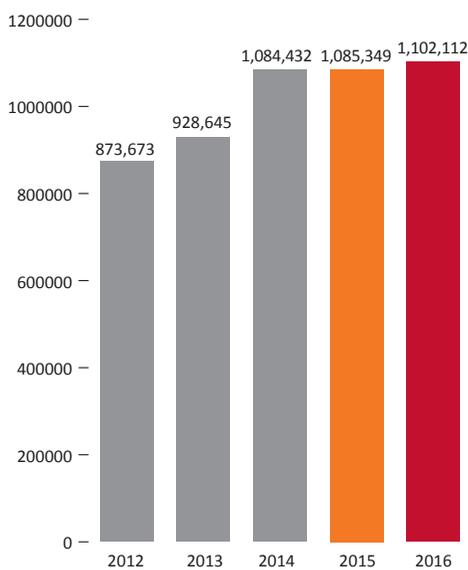
Research and Grant Expenditures Trend (In Millions)



Research and Grants (In Millions)

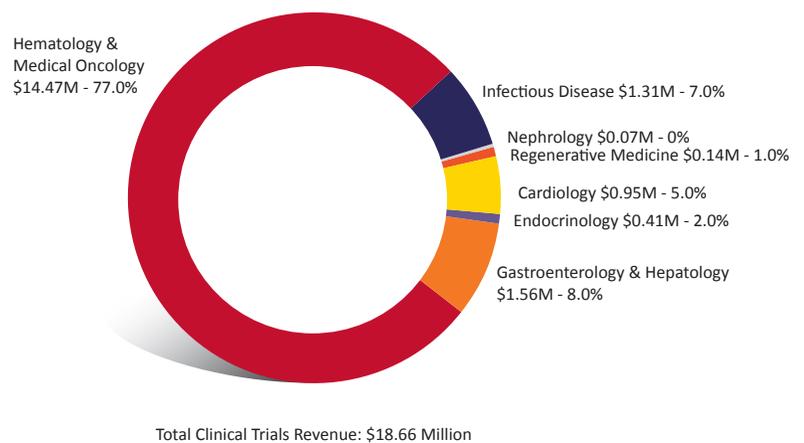


Annual wRVU Trend*



*wRVU means Work Relative Value Units

Clinical Trials Revenue (In Millions)



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