STATE OF THE DEPARTMENT 2019

DEPARTMENT OF MEDICINE
ALBERT EINSTEIN COLLEGE OF MEDICINE
AND MONTEFIORE HEALTH SYSTEM

YARON TOMER, MD, FACP
CHAIR, DEPARTMENT OF MEDICINE
# ACTIVITY INFORMATION SHEET FOR REGULARLY SCHEDULED SERIES (RSS)

## ELECTRONIC EDUCATION DOCUMENTATION SYSTEMS (eeds)

**Activity Title:** Department of Medicine Grand Rounds

This activity is made possible in part by an educational grant from

**Date:** September 26, 2019

**Presenter:** Yaron Tomer, MD

**Title:** State of the Department

**Location:** Cherkasky Auditorium

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**Course Director’s/Moderator’s Disclosures:** Dr Elizabeth Kitsis has no relevant financial relationships to report in the last 12 months with a commercial interest.

**Presenter’s Disclosures:** Dr Tomer has no relevant financial relationships to report in the last 12 months with a commercial interest.

The staff of CCME of Albert Einstein College of Medicine has no conflicts of interest with commercial interests related directly or indirectly to this educational activity.
MISSION

Building upon our Bronx roots, we aim to improve the health of the people and communities we serve through compassionate, patient-centered care, scientific discovery, humanistic education, community engagement and absolute commitment to social justice.
IN MEMORIAM

Doris Escher, MD

Joan Casey, MD

Felix Wimpfheimer, MD

Vladmir Kvetan, MD
WHO WE ARE

CLINICAL OPERATIONS
- 1156 Providers: MD 804, PA 298, NP 54
- 829 Beds
- > 45,000 discharges/year
- Primary Care
  - 33,750 unique patients
  - ~ 91,000 visits/year

EDUCATION
- 773 Med Students
  - Preclinical courses
  - Clinical clerkships
- Clinical Trainees
  - 191 Monte residents
  - 155 Monte fellows
  - 77 Wakefield residents
  - 10 Wakefield Fellows

RESEARCH
- 112 PI’s
  - 77 MD’s
  - 5 MBBS/DO
  - 22 PhD’s
  - 8 MD/PhD’s
NEW LEADERSHIP RECRUITS & PROMOTIONS

2018 Faculty Recruits

• 18 New Faculty
  • 1 Instructor
  • 12 Assistant Professors
  • 2 Associate Professors
  • 3 Professors

Theresa Madaline, MD
Hospital Epidemiologist

Carlos Rodriguez, MD
VC for Academic Affairs, Division of Cardiology; Director of Cardiovascular Research

Marcel Yotebieng, MD, PhD, MPH
Program Leader, Global HIV and Infectious Disease Research

Sunit Jariwala, MD
Director of Clinical Research Innovation, DOM
Clinical Mission: Highlights & Initiatives

**Compensation Plan**
New transparent and equitable compensation plan
Implemented in 4 more divisions: Dermatology, Allergy, GI, ID

**Innovation**
- eConsults expanded
- Virtual Scribes
- Pre-visit registration App

**Access**
Sig. improvement in access
Reduction in no-show rate

**New Clinical Programs**
- Endoscopic bariatric program
- Obesity Center – recruiting director
- Multi-specialty practice in Elmsford
Faculty Practice: Leadership Team

Jennifer Garner, MSW
Unified Administrator

Eric Epstein, MD
Medical Director
Faculty Practice

Sheena Moultrie
Faculty Practice Administrator

Dmitriy Shmunko, MBA
Financial Director

Sunit Jariwala, MD
Director of Innovation

Sharon Rikin, MD
Director, Ambulatory QI

Vanessa Parsons, RN, BSN
Nursing Supervisor

Aloke Maity
Data Analyst
### DOM Faculty Practice

#### Visit Volume by Specialty* July 2018 – June 2019

<table>
<thead>
<tr>
<th>Specialty</th>
<th>New Patient</th>
<th>Est Patient</th>
<th>Total Patient</th>
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<tbody>
<tr>
<td>Allergy and Immunology</td>
<td>4,085</td>
<td>21,688</td>
<td>25,773</td>
</tr>
<tr>
<td>Dermatology</td>
<td>16,929</td>
<td>78,137</td>
<td>95,066</td>
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<tr>
<td>Plastic Surgery</td>
<td>5,179</td>
<td>17,327</td>
<td>22,506</td>
</tr>
<tr>
<td>Endocrinology</td>
<td>6,869</td>
<td>30,849</td>
<td>37,718</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>19,003</td>
<td>48,760</td>
<td>67,763</td>
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<tr>
<td>Geriatric Medicine</td>
<td>484</td>
<td>9,291</td>
<td>9,775</td>
</tr>
<tr>
<td>Hepatology</td>
<td>889</td>
<td>2,503</td>
<td>3,392</td>
</tr>
<tr>
<td>Transplant Hepatology</td>
<td>291</td>
<td>808</td>
<td>1,099</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>5,669</td>
<td>43,234</td>
<td>48,903</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>24,395</td>
<td>460,361</td>
<td>484,756</td>
</tr>
<tr>
<td>Nephrology</td>
<td>2,630</td>
<td>41,479</td>
<td>44,109</td>
</tr>
<tr>
<td>Pulmonology</td>
<td>4,083</td>
<td>19,228</td>
<td>23,311</td>
</tr>
<tr>
<td>Sleep Medicine</td>
<td>1,120</td>
<td>6,084</td>
<td>7,204</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>5,138</td>
<td>20,682</td>
<td>25,820</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>96,764</strong></td>
<td><strong>800,431</strong></td>
<td><strong>897,195</strong></td>
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</table>

*Including testing & procedures*
“Routine, non-urgent or preventive care visits within 4 weeks”¹

1. NYS - DOH, Office of Managed Care – Managed Care Organization Qualifications Guidelines
Financial Reports: Solid Growth in Revenue & wRVU

Projected Revenue Growth of 6.5% over 2018

PROJECTED 2019 PROFESSIONAL REVENUE

- 2016: 55.7 M
- 2017: 58.9 M
- 2018: 65.2 M
- 2019: 69.4 M

Projected wRVU Growth of 4.6% over 2018

- 2016: 872 K
- 2017: 891 K
- 2018: 964 K
- 2019: 1,009 K
RESEARCH

Marla Keller, MD
Vice Chair for Research
Associate Director of the Block Institute for Clinical and Translational Research
Professor of Medicine (Infectious Diseases)
Professor of Obstetrics & Gynecology and Women's Health

Cevita Webb, MPH
Director of Research Operations
Senior Administrator
Research Operations

Federal Funding: $56M for 2018 (NIH, NIOSH, FDA)

Ranked #26 by Blue Ridge Institute

Grant Submission & Success

• 130 grants submitted in past year
• 40 grants awarded in past year
  • 26 NIH Grants

Clinical Trials

• 170 clinical trials
• $1.8M in 2018
• Jennifer Ayala: DOM Clinical Research Manager

Investigators: 112 PI’s
New K23 and KL2 Awardees

Justina Groeger, MD
General Internal Medicine
KL2: Reducing long-term opioid use among geriatric patients after orthopedic surgery

Deepika Slawek, MD, MPH
General Internal Medicine
KL2: HIV Chronic pain and medical marijuana

Omar Saeed, MD
Cardiology
K23: Hemolysis and Platelet Activation during Continuous Flow Mechanical Circulatory Support

Anna Bortnick, MD
Cardiology
K23: Cardiac Calcification and Cholesterol Efflux in Older Adults (pending)

Shudan Wang, MD
Rheumatology
KL2: Complement C9 as marker of renal injury and poor therapeutic response in patients with lupus

Cristina Gonzalez, MD
Hospital Medicine
K23: Does implicit bias influence medical decision-making?

Kerry Murphy, MD
Infectious Diseases
K23: The impact of HIV on accelerated aging in the female genital tract. (pending)
K (Mentored) to R (Independent) Awards

Gaetano Santulli, MD, PhD (Cardiology)
R01 NHLBI: Functional role of IP3 receptors in the regulation of cardiac myofibroblasts
R01 NIDDK: Beta cell intracellular calcium and diabetes (pending, 12%)

Sofiya Milman, MD (Endocrinology)
R01 NIA: Somatotropic Signaling and Resilience to Aging and Alzheimer’s Disease

Viraj Patel, MD (General Internal Medicine)
R21 NIMH: Impact of multiple stigmas on HIV care continuum outcomes for key populations
R01 NIMH: CHALO!: A mobile technology based intervention to accelerate HIV testing and linkage to prevention and treatment (pending, 14%)

James Brust, MD (General Internal Medicine)
R01 NIAID: Emergence of bedaquiline and clofazimine resistance after interruption of drug-resistant TB therapy in high HIV prevalence setting

Helena Blumen, PhD (Geriatrics)
R01 NIA: Trajectories and modifiable risk factors of brain, gait, and cognitive decline in aging and pre-dementia
FACULTY AFFAIRS

Elizabeth Kitsis, MD

Vice Chair for Faculty Affairs and Professionalism
Associate Professor of Medicine (Rheumatology)
Associate Professor of Epidemiology & Population Health
# Department of Medicine Awards

<table>
<thead>
<tr>
<th>Award</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Distinguished Clinician</strong></td>
<td>Robert Forman, MD</td>
<td>David Appel, MD</td>
<td>Mark Greenberg, MD</td>
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<tr>
<td><strong>Humanism</strong></td>
<td>Golda Hudes, MD</td>
<td>Vafa Tabatabaie, MD</td>
<td>Shadi Nahvi, MD</td>
</tr>
<tr>
<td><strong>Citizenship</strong></td>
<td>Joseph DeLuca, MD</td>
<td>Marta Rico, MD</td>
<td>Tulay Aksoy, MD</td>
</tr>
<tr>
<td><strong>Rising Star</strong></td>
<td>Priya Nori, MD</td>
<td>Olga Aroniadis, MD</td>
<td>Wei Chen, MD</td>
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</table>
Department of Medicine Mentoring Program

- Entering Fifth Year
- Open to all DOM Junior Faculty

Program Components

- Interactive Seminars
- Dyadic mentoring
- Group Mentoring
- Scholarly Projects
- Works-in-Progress
UNDERGRADUATE MEDICAL EDUCATION

Amanda Raff, MD

Associate Chair of Medicine for Undergraduate Medical Education
Associate Professor of Medicine (Nephrology)
New Initiatives for 2019-2020

**Introduction to Clerkship Year (1 week)**
- Substantial support from DOM
- Sessions on note writing, clinical reasoning and evidence based physical exam

**Internal Medicine Clerkship**
- New sessions on clinical reasoning
- Integrated curriculum on pain management and the opiate crisis
  Cristian Zanartu, MD

**New Sites in Development**
- Monte Nyack: 4th Year sub-I
- Crystal Run: 4th Ambulatory
- Bronx VA: 3rd Year Clerkship
INTERNAL MEDICINE RESIDENCY

Lauren Shapiro, MD
Internal Medicine Residency Director
Assistant Professor, Department of Medicine
(General Internal Medicine)
Resident Match and Graduates

### Match 2019

- **Medical Schools:** Einstein, Mt. Sinai, Cornell, Brown, GW, NYU, Dartmouth, Stony Brook, Downstate, Johns Hopkins, UPenn, Temple, others

### GRADUATES

<table>
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<tr>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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<tr>
<td>Primary Care</td>
<td>10</td>
<td>6</td>
<td>7</td>
<td>3</td>
<td>8</td>
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<tr>
<td>Hospitalist</td>
<td>8</td>
<td>13</td>
<td>13</td>
<td>8</td>
<td>13</td>
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<tr>
<td>IM Subspecialty</td>
<td>27</td>
<td>27</td>
<td>17</td>
<td>33</td>
<td>20</td>
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<tr>
<td>Fellowship (GH, RWJ,</td>
<td>2</td>
<td>1</td>
<td>6</td>
<td>2</td>
<td>5</td>
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<tr>
<td>GIM, Med Ed)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Matched Fellowship</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>97</td>
<td>95</td>
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</table>

### Board Pass Rate

<table>
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<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Monte/Einstein</td>
<td>94%</td>
<td>97%</td>
<td>98%</td>
<td>95%</td>
</tr>
<tr>
<td>Board Pass Rate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Board Pass</td>
<td>89%</td>
<td>90%</td>
<td>90%</td>
<td>91%</td>
</tr>
</tbody>
</table>

• Monte/Einstein

Medical Schools: Einstein, Mt. Sinai, Cornell, Brown, GW, NYU, Dartmouth, Stony Brook, Downstate, Johns Hopkins, UPenn, Temple, others
Research and Initiatives

Research Activities

• 90% of PGY3’s → scholarly work
• 3-5 residents/year → intensified research rotation
• Presentations at national and international meetings:
  • SHM, SGIM, ACP, etc.

New Initiatives

• Medical Educator Pathway → Second year (total of 12 residents)
• Hospital Medicine - Health Systems Pathway → 6 residents
• Robust new QI curriculum
• Director of Diversity – Dr. Shani Scott
• Director of Community & Population Health for IM residency – Dr. Iman Hassan
Highlights of 2018-2019

RECRUITMENT

- 4000 applications screened & over 300 candidates interviewed
- Program expanded from 73 to 77 residents
- Interns are a diverse group from Pakistan, India, Bangladesh, Israel, Iran, Iraq, Turkey, Peru, Venezuela, Russia, Philippines and US

FELLOWSHIPS

- Outstanding fellowship placements, with many of our graduates staying within the system

RESEARCH AND QI

- Expanding resident scholarship and QI activities
Quality Improvement (QI)
Inpatient and Ambulatory

Sarah Baron, MD
Director of Inpatient QI
Assistant Professor of Medicine
(Hospital Medicine)

Sharon Rikin, MD
Director of Ambulatory QI
Assistant Professor of Medicine
(General Internal Medicine)
Ambulatory Quality Improvement

Director, Sharon Rikin

**eConsults**
- >1500 completed
- Available at all primary care sites
- Scaling specialty options

**CDC Opioid QI Collaborative**
- Improving guideline-driven care for chronic opioid therapy

**Resources for Physician-led QI Initiatives**
- Workflow, communication tools, tracking measures

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“I enjoy the physician to physician intellectual discussions which have been made possible by eConsult. I enjoy having the opportunity to ask questions which always come up (but have never had a convenient way of discussing before) about various topics.”
Inpatient Quality Improvement
Director, Sarah Baron

Inpatient Glycemic Control

• Partnered with Division of Endocrinology
• Reduce Hypoglycemia (<55) & Hyperglycemia (>350)
• Facilitate existing tools (EPIC, weight-based dosing)
• Heighten safety protocols
• Pharmacy detailing

C. difficile reduction

• 2018: Decreased Unnecessary Testing (Jeff Ceresnak)
• 2019: Enhance Isolation with novel protocols
• 2019: New Bleach cleaning technology

Mentoring Divisional Projects

• Jessica Dekhtyar, MD: Improved Transfers into MMC
• Brian Spund, MD: CAUTI Reduction
• Jamie Galen, MD: US-guided peripheral IV placement
Chair’s Award for Resident Excellence in Quality Improvement

Directors: Sarah Baron, MD; Julie Kanevsky, MD; Sharon Rikin, MD

Fred Cohen, MD
• Prevention of heparin exposure after HIT

Kim Lynch, MD & Karen Yang, MD
• Improve PCP satisfaction of discharge summaries

Adam Tepler, MD
• Improve outpatient PPI utilization

Eric Woods, MD
• Improve completion of inpatient labs

Jay Naik, MD & Jeremy Quentzel, MD
• Improve discharge medication reconciliation
DEPARTMENT OF MEDICINE
STRATEGIC PLAN
2020 – 2025
Guiding Principles

Create 5-Year Plan

- Align with mission, vision and values of Montefiore/Einstein
- Engage large number of DOM members
- Recognize complexity of academic medicine and health care environment
- Explore outside the borders of the DOM
- Make it concise
- Disseminate widely
- Create a mechanism for implementation
DOM Executive Committee

Yaron Tomer, MD
Chair

Elizabeth Kitsis, MD
Vice Chair, Faculty Affairs

Eric Epstein, MD
Director, Faculty Practice

Sheena Moultrie
Administrator, Faculty Practice

Jennifer Garner, MSW
DOM Administrator

Amanda Raff, MD
Director, Undergraduate Medical Education

Grace Kajita, MD
Program Director, Wakefield

Dmitriy Shmunko, MBA
Financial Director

Marla Keller, MD
Vice Chair, Research

Cevita Webb, MPH
Administrator, Research

Lauren Shapiro, MD
Program Director, Montefiore
Situational Analysis

- **Internal:** Performance metrics, stakeholder input
- **External:** Benchmarking
- **SWOT Analysis**
- **Strategic Objectives:** formulated by Working Groups
- **Finalize** Departmental Strategic Plan

Five Pillars

- Clinical Care
- Research
- Education
- Diversity & Inclusion
- Recruitment & Retention

Vision, Mission, Values
VISION

From Best in the Bronx to Best in the Nation: We Set the Bar in Health Care

Whether poor or privileged, our patients are the healthiest in the nation. We set the standard for accessible, equitable, and quality care that is personalized to the needs of our patients. Building on the strength of our patient relationships and embracing the transformative power of technology, we provide seamless multidisciplinary care to patients when they need us, regardless of where they are. Whether in the comfort of their living room or while taking a walk in the neighborhood, virtual care is provided to patients, who are delighted with the convenience. Patients are confident that their bodies and minds are being attended to by a compassionate team of caregivers. Patients live full, active and productive lives, uninterrupted by frequent health care encounters and not restricted by disease. Our individual and population health outcomes are unparalleled. Groundbreaking discoveries by the Department of Medicine save and enrich lives. Innovative approaches to education inspire the next generation of physicians to dream large enough to create a world without disease.
Values

- Humanity
- Innovation
- Teamwork
- Diversity
- Equity
- Excellence
Five Pillars

Clinical Care

Research

Education

Diversity & Inclusion

Recruitment & Retention

MSA
Muslim Student Association
Working Group Co-Chairs

**Clinical**
- Will Southern, MD, MS
- Vaughn Folkert, MD

**Research**
- Michelle Gong, MD
- Liise-anne Pirofski, MD

**Diversity & Inclusion**
- Irene Blanco, MD
- Chinazo Cunningham, MD, MS

**Recruitment & Retention**
- Julia Arnsten, MD, MPH
- Mario Garcia, MD

**Education**
- Stephen Baum, MD
- Eva Metalios, MD
## Working Groups

### Clinical
- Joseph Deluca, MD
- Amy Ehrlich, MD
- Eric Epstein, MD
- Ladan Golestaneh, MD
- Sharon Leung, MD, MS

### Research
- Jacqueline Achkar, MD, MsC
- Jill Crandall, MD
- Marla Keller, MD
- Mimi Kim, ScD
- Jeffrey Pessin, PhD
- Michael Ross, MD
- Sam Sigal, MD
- Will Southern, MD
- Joe Verghese, MBBS

### Education
- Priya Nori, MD
- Magdalena Slosar-Cheah, MD
- Amanda Raff, MD

### Diversity & Inclusion
- Sarah Baron, MD
- Aluko Hope, MD
- Tanya Johns, MD
- Keron Lezama, MD
- Viraj Patel, MD
- Ileana Pina, MD, MPH

### Recruitment & Retention
- Jessica Dekhtyar, MD
- Daniel Fein, MD
- Ulrich Jorde, MD
- Grace Kajita, MD
- Elizabeth Kitsis, MD
- Shadi Nahvi, MD, MS
- David Rosenrech, MD
- Sheira Schlair, MD, MS
- Joel Zonszein, MD
STRATEGIC GOALS
AND INITIATIVES
Clinical Care

Strategic Goal 1

Collaborate with stakeholders to develop new coordinated care models focusing on population health (PH)

- Collaborate with CMO and MMG on PH programs
- Create divisional PH programs
- Educate faculty on PH
- Appoint DOM leader for PH
Strategic Goal 2

Develop and promote our subspecialty practices and centers internally and throughout the region

- Enhance coordination of care
- Improve access
- Enhance patient experience
- Market providers and programs

Clinical Care
Strategic Goal 3

Enhance departmental infrastructure for Quality Improvement

- Expand QI projects with Network Performance Group
- Appoint divisional QI champions
- Develop departmental infrastructure

Clinical Care
Strategic Goal 1

Expand research opportunities and multidisciplinary collaborations at Einstein and Montefiore for clinicians in the DOM

Establish support mechanisms to enable clinicians to participate in research
Promote collaboration
Devise productivity metrics
Strategic Goal 2

Align departmental research with our social justice mission by performing studies relevant to our patient population.

Create a data analysis resource

Develop programs in healthcare delivery science, implementation science, and translational research
Strategic Goal 3

Strengthen infrastructure to support clinical, bench, and translational research and clinical trials

Create an administrative core

Develop dashboards and databases
Education

Strategic Goal 1

Provide support for teaching and professional development that aligns with opportunities for academic promotion

- Work with Montefiore Einstein to explore eRVU or other mechanisms to support faculty educational activities
- Expand learning opportunities
- Highlight teaching awards for faculty and housestaff
Strategic Goal 2

Reward and acknowledge faculty for their participation in education within the promotions process

Explore revising the promotions process to value teaching more

Factor in teaching metrics in DOM compensation
Strategic Goal 3

Design an approach to uniform, system-wide teaching to facilitate the expansion of teaching sites

- Create a welcoming learning culture across sites
- Identify and engage teaching faculty at all sites
- Develop medical student teaching sites using consistent approach
Diversity & Inclusion

Strategic Goal 1

- Develop and implement a surveillance plan that tracks self-reported race, ethnicity, gender, LGBTQ status and disability of current, newly hired, and departing faculty members.
- Determine and track diversity status of faculty.
- Determine reasons URM faculty and trainees join and leave DOM.
Diversity & Inclusion

Strategic Goal 2

Increase the diversity and inclusion of trainees and faculty in the DOM

- Design approach to retain URM trainees as faculty
- Ensure URM representation on key committee
- Provide mentoring and career development programs for URM trainees and faculty
Diversity & Inclusion

Strategic Goal 3

Ensure equity across diversity status related to salary, promotion, retention, mentoring, and leadership

Develop plans to ensure equity across diversity status related to salary, promotion, retention, mentoring, and leadership

Appoint DOM Chief Diversity Officer to implement the diversity initiatives in our strategic plan

LMSA
Latinx Medical Student Association
Strategic Goal 1

Create a fair, competitive and transparent compensation plan to facilitate faculty recruitment and retention
Recruitment & Retention

Strategic Goal 2

Retain top trainees in our programs to join our faculty

- Identify factors that promote trainee retention
- Create a resource describing benefits
- Create fast track process for internal recruits

2019 Dermatology Fellows
Recruitment & Retention

Strategic Goal 3

Enhance formal longitudinal mentorship for our faculty

- Create a training program for mentors
- Conduct a mentoring needs assessment
- Expend faculty development programs to more senior faculty
Strategic Goal 4

Develop a program to measure and improve physician well being

- Measure wellbeing and burnout in DOM
- Develop resources based on survey results
- Identify and help individual MDs who are burned out
- Design and pilot divisional initiatives to improve physician wellbeing

Wellness & Burnout Survey to be distributed in 1-2 weeks
Next Steps

Communicate

Implement

Adapt as needed
DIVISION OF ALLERGY & IMMUNOLOGY

David Rosenstreich, MD

Chief, Division of Allergy & Immunology
Professor of Medicine
Professor of Microbiology & Immunology
Professor of Otolaryngology
Allergy: Unique Programs

**Clinical Trials Program**

**Director:** Golda Hudes, MD, PhD  
- **Projected income:** $761,000

**Drug Allergy Program**

**Directors:** Elina Jerschow, MD, MSc and Merhunisa Karagic, MD  
- **Tri-State AERD referral center**  
- **Medications:** Antibiotics, anesthetics, anti-emetics, steroids, opioids, inulin, progesterone, NSAID’s  
- **Chemotherapy:** biologic desensitization

**Food Allergy Center**

**Director:** Manish Ramesh, MD, PhD  
- **Specialized Testing:** serology, skin testing, food challenge  
- **Specialized Treatment:** oral desensitization (peanut, milk),  
- **SQ immunotherapy**
Allergy: Unique Programs

Immunodeficiency Program
- Director: Manish Ramesh, MD, PhD
  - Immune deficiency in children and adults
  - New biologic agents causing immune deficiency

Allergo-Oncology Program
- Director: Denisa Ferastraoaru, MD
  - Newly emerging field
  - IgE plays a role in anti-tumor immunity
  - IgE deficient patients have increased malignancy susceptibility

Chronic Rhinosinusitis Center
- Director: Elina Jerescow, MD, M.Sc
  - Team-based: Allergist, ENT

Severe Asthma Center
- Director: Sunit Jariwala, MD
  - Team-based: Allergist, Pulmonologist, Certified Asthma Educator, RT
  - Procedures: Spirometry, Skin testing, exhaled nitric oxide, new biologic agents, allergen immunotherapy

ASTHMA INFOGRAPHICS
- Normal
- Asthma
- Asthma attack

TREATMENTS

TRIGGERS
- Pollen
- Pollution
- Cockroaches
- Food

SYMPTOMS
- Difficulty breathing
- Dry cough
- Chest pain or tightness
- Night cough
- Shortness of breath
- Wheezing
Mario Garcia, MD
Chief, Division of Cardiology
Professor of Cardiology
Professor of Radiology
Pauline Levitt Chair in Medicine
Co-Director, Montefiore Einstein Center for Heart and Vascular Care

Overall
National Rank
#31

Overall Score
56.9/100
Clinical Activities

**Catheterization Procedures**

![Graph showing catheterization procedures from 2015 to 2019 trended.]

**Electrophysiology Procedures**

![Graph showing electrophysiology procedures from 2015 to 2019 trended.]

**Imaging**

![Graph showing imaging procedures from 2015 to 2019.]

**Transplants and LVADs**

![Bar chart showing transplants and LVADs from 2015 to 2019 trended.]

*1-year survival 96.1% (US average 88.6%)

**TMVR**

![Bar chart showing TMVR from Feb to Dec 2018 and 2019.]

- 2018 TMVR
- 2019 TMVR

**Ulriche Jorde, MD**

**Giora Weisz, MD**

**Luigi Di Biase, MD, PhD**

**Cynthia Taub, MD**
<table>
<thead>
<tr>
<th>PI</th>
<th>Project</th>
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<tbody>
<tr>
<td>Richard Kitsis, MD</td>
<td>• A new molecular pathway for diabetic cardiomyopathy (NIH R01 HL130861)</td>
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<tr>
<td></td>
<td>• Chaperone-mediated autophagy in normal cardiac biology and heart failure (NIH R01 HL138475)</td>
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<td>• Fibroblast-Cardiomyocyte Interactions in the Pressure Overloaded Myocardium (PR151134)</td>
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<td>• Creating novel drugs to protect the heart against cancer therapies (AHA 18SRG34280018)</td>
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<tr>
<td>Nikolaos Frangogiannis, MD</td>
<td>• Chemokines in healing myocardial infarcts (R01 HL076246)</td>
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<td>• Resolution of inflammation in healing myocardial infarcts (R01 HL085440)</td>
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<td>• Cellular plasticity in the diabetic myocardium (PR151029)</td>
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<td>• The role of Transglutaminase-2 in ischemic and non-ischemic heart failure (DOD) (USAMRAA W81XWH-19-1-0283)</td>
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<td>Nicholas Sibinga, MD</td>
<td>• Colony stimulating factor-1 in graft vascular disease (1R01 HL127700-04)</td>
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<td>• Beta-catenin in vascular homeostasis and remodeling (1R01HL133861-03)</td>
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<td>• Metabolic control in vascular remodeling (1R01HL149921-01)</td>
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<td>• The FAT1 cadherin in vascular remodeling (AHA TPA)</td>
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<td>• Beta-catenin signaling in obstructive vascular disease (Hirschl-Weill-Caulier Charitable Trust)</td>
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<tr>
<td>Gaetano Santulli, MD, PhD</td>
<td>• Targeting intracellular calcium leak as novel therapy for diabetes (R00-DK107895)</td>
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<td>• Functional role of IP3 receptors in the regulation of cardiac myofibroblasts (R01-HL146691)</td>
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<td>• Beta cell intracellular calcium and diabetes (R01-DK123259)</td>
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<tr>
<td>Carlos Rodriguez, MD, MPH</td>
<td>• Epidemiologic Determinants of Cardiac Structure and Function Among Hispanics (R01 HL104199-05A1)</td>
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<td>• AHA Tobacco Regulation and Addiction Center (5P50HL120163-04)</td>
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<td>Snehal Patel, MD</td>
<td>• Mucosal Vascular Alterations in Heart Failure and Continuous Flow LVAD Support (AHA Grant in Aid 17GRNT33410309)</td>
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<tr>
<td>Omar Saeed, MD</td>
<td>• Hemolysis and Platelet Activation during Continuous Flow Mechanical Circulatory Support (K23HL145140)</td>
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<tr>
<td>Anna Bortnick, MD</td>
<td>• Cardiac Calcification and Cholesterol Efflux in Older Adults (K23pending)</td>
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<tr>
<td>Sasa Vukelic, MD</td>
<td>• Prevention of Angiodysplasia Related Gastrointestinal Bleeding in CF-LVAD Patients - Role of Digoxin (NYAM Glorney-Raisbeck)</td>
</tr>
</tbody>
</table>
Innovation

First or Among the First

• Full Robotic PCI
• Use of Heart-Mate III LVAD
• HCV non-viremic donor transplant
• Bloodless Heart Transplant
• Implantation of Percutaneous Heart Pump (PHP) in Shock

Mohamed Azeem Latib, MD, Medical Director of Structural Interventions and Heart Valve Program

TAVR + TMVR + ASD closure

Valve-in-Mit annular calcif.
DIVISION OF CRITICAL CARE MEDICINE

Michelle Gong, MD
Chief, Division of Critical Care
Professor of Medicine
Professor, Department of Epidemiology & Population Health
Director, Critical Care Research, DOM
New Clinical Initiatives

**Comprehensive Stroke Center Certified**

- Collaboration with Stroke Neurology, Neurosurgery, Neurointerventional Radiology
- Neuroscience ICU key part
- Neuroscience Progressive Care Unit (2/2019)
- Ranked 29th in USNWR: Neurology/Neurosurgery (Unranked last year)

**Long Term Outcomes in ICU Survivors Program**

- Aluko Hope, MD, co-chairs the Society of Critical Care Thrive Peer Support Collaborative
- Founding member of Critical and Acute Illness Recovery Organization (CAIRO): An international consortium to advance the practice of critical/acute illness recovery
Academic

International Leadership

Peter Dicpinigaitis, MD, named Editor in Chief of LUNG

Aluko Hope, MD, named Co-Editor-In-Chief of American Journal of Critical Care

New NIH Grants in 2019

R56 HL141567; Vitamin D to Improve Outcomes by Leveraging Early Treatment: Long-term Brain Outcomes in Vitamin D Deficient Patients

R18 HS026188; Ancillary study for CLOVERS investigates Treatment’s Echocardiographic Mechanisms
DIVISION OF DERMATOLOGY

Steven R. Cohen, MD, MPH
Chief, Division of Dermatology
Professor of Medicine (Dermatology)
Dermatology Programs

Caroline Halverstam, MD, FAAD
Residency Training Program

Eugene Balagula, MD
Dermatology Hospitalist Service

Bijal Amin, MD
Dermatopathology

Steve Cohen, MD, MPH; Allison Kutner, MD
Hidradenitis Suppurativa Treatment Program

Beth McLellan, MD
Onchodermatology

Jaehwan Kim, MD
Psoriasis Research
National Psoriasis Foundation Discovery Grant
Pediatric Dermatology

Diana Lee, MD, PhD, Director

Julia Gittler, MD

In Progress:
- Continuity Clinic
- ACGME Fellowship
- Interdisciplinary Conference
  - Pediatric Hematology-Oncology
  - Pediatric Radiology
  - Interventional Radiology
  - Pediatric ENT
  - Pediatric Surgery
DIVISION OF ENDOCRINOLOGY AND METABOLISM

Jill Crandall, MD
Chief, Division of Endocrinology
Director, Fleischer Institute for Diabetes and Metabolism

Overall

National Rank
#14

Overall Score
65.4/100
Unique Clinical Programs

**Behavioral Health Services:**
- **Stephanie Leung, PhD**
  - Collaboration with YU Ferkauf School of Psychology, **Jeff Gonzalez, PhD**

**CMO Collaborations:**
- Free Diabetes Classes
- Care manager

**Obesity Program Director**
- Actively Recruiting

**Supporting Emerging Adults with Diabetes (SEAD):**
- Shivani Agarwal, MD
  - Collaboration with Pediatrics Mental Health Support

**Neuro-endocrine and Thyroid Cancer:**
- Noah Bloomgarden, MD

**Calcium/Bone with Orthopedics:**
- Vafa Tabatabaie, MD

**Diabetes Self-Management Education:**
- Rita Louard, MD; Joel Zonszein, MD

**In-patient diabetes:**
- Sarah Baron, MD, Nisha Suda, MD

**Pituitary:**
- Nisha Suda, MD

**E-Consults:**
- Raphy Hulkower, MD; Noah Bloomgarden, MD; Nisha Suda, MD

**Diabetes Self-Management Education:**
- Rita Louard, MD; Joel Zonszein, MD
Research Programs

15 R01 Grants

1 K23

1 K99/R00

3 U01/UH2 (Cooperative)

1 T32 (Aging)

3 Center Grants:

- Einstein-Sinai Diabetes Res. Center (Jeffrey Pessin, PhD)
- NY Regional Center for Diabetes Translation Res. (Jeffrey Gonzalez, PhD; Judith Wylie-Rosset, EdD)
- Institute for Aging Research (Nir Barzilai, MD; Ana Maria Cuervo, MD, PhD)
  - Nathan Shock Center for Excellence in the Biology of Aging (NIA)
  - Paul F. Glenn Center for the Biology of Human Aging (Glenn Foundation)

~$14.7 million/year in NIH grants
DIVISION OF GASTROENTEROLOGY

Thomas Ullman, MD
Chief, Division of Gastroenterology
Professor of Medicine (Gastroenterology)

Overall

National Rank  #50
Overall Score  57.4/100
GI Highlights

National Recognition

- *U.S. News World Report*: #50
- *New York Magazine*
  Top Doctors:
  - Sammy Ho, MD
  - Aaron Tokayer, MD
  - Thomas Ullman, MD

Research Achievements

- **19** publications
- Parvathi Myer, MD: KL2 Calabresi Career Development Grant

New Faculty

- Ruby Greywoode
  Assistant Professor, IBD, Health Disparities
- Amar Manvar, MD
  Assistant Professor, Advanced Endoscopies
## Navigator-Driven Direct Access CRC/Colonoscopy Screening

<table>
<thead>
<tr>
<th></th>
<th>2019 (Jan-Jun)</th>
<th>2018 (Jan-Jun)</th>
<th>Variance</th>
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<tbody>
<tr>
<td>Referrals</td>
<td>5921</td>
<td>5951</td>
<td>-0.6%</td>
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<tr>
<td>Completed</td>
<td><strong>1804</strong></td>
<td>1754</td>
<td>+2.9%</td>
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<tr>
<td>Completion Rate*</td>
<td>74%</td>
<td>62%</td>
<td>+19.4%</td>
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<tr>
<td>Wait Time</td>
<td>5 weeks</td>
<td>7 weeks</td>
<td>-28.6%</td>
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### Education Highlights

- Annual Day in the Gut Meeting (25+ years)
- Advanced Endoscopy Course (6th Annual)
- Larry Brandt X-Ray Rounds: 37th year
DIVISION OF GENERAL INTERNAL MEDICINE (DGIM)

Julia Arnsten, MD
Chief, Division of General Internal Medicine
Professor of Medicine
Professor of Epidemiology & Population Health
Professor of Psychiatry
Director, Center for Comparative Effectiveness Research
Buprenorphine Treatment Program – 10 years >900 patients >25 prescribers
Medical Cannabis Program (since 2017)

Julia Arnsten, MD

• Protect patients from arrest or parole violation
• Prevent accidental ingestion of contaminants such as fentanyl, or synthetic cannabinoids
• Enable use of specific ratios of THC and CBD
• Promote safer delivery modes (than smoking)
• Protect patients from employment discrimination
Opening of Montefiore-NYHRE Clinic, February 2019
Brianna Norton, MD
Research

Incarceration

Substance Use (Opioids)

Health Outcomes
(pain, overdose, poor adherence, neurocognitive dysfunction)

Hepatitis C

HIV/AIDS

Total Funding: $16.9 M
NIH Funding: $12.7 M

Chinazo Cunningham, MD, MS
Associate Division Chief, Research Resources
DIVISION OF GERIATRICS

Joe Verghese, MB, BS
Chief, Division of Geriatrics
Professor of Medicine
Professor of Neurology
Director, Jack and Pearl Resnick Gerontology Center
Director, Division of Cognitive & Motor Aging,
Department of Neurology

Overall

National Rank
#48

Overall Score
72.1/100
Clinical Operations

Inpatient Moses
- Michael Bogaisky, MD
- Wanda Horn, MD
- Alice Guo, MD

Outpatient: Ambulatory Practice; Home Visits
- Wayne Lee, MD
- Paulette Wald-Cagen, NP
- Claudene George, MD
- Amy Ehrlich, MD

Collaborative Care Wakefield; CAB
- Wanda Horn, MD
- Alice Guo, MD
- Rubina Malik, MD
- Rachel Chalmer, MD

Nursing Homes
- Kings Harbor
  - Shikta Gupta, MD
- Hebrew Home
  - Resmi Sulekha, MBBS

Research Operations

9/13 Faculty Funded – Federal (NIH) or NY State DOH
- Joe Verghese, MD
- Amy Ehrlich, MD
- Rubina Malik, MD
- Michael Bogaisky, MD
- Claudene George, MD
- Wayne Lee, MD
- Alice Guo, MD
- Rachel Chalmer, MD
- Helena Blumen, PhD
New Collaborative Care Models

Geriatrics - Orthopedics
Co-Management Program at Wakefield

- 1800 pre-op medical assessments/year
- Post-op inpatient coverage
  (census ~ 30 patients/day)

Geriatrics – Neurology
Center for the Aging Brain (CAB):
Clinical and Research Center

- Established 2015
- Center of Excellence for Alzheimer’s Disease (CEAD) [NYS DOH]
- Palliative care for homebound cognitively impaired seniors

Montefiore-Einstein Center for the Aging Brain:
Preliminary Data

Joe Verghese, MD, Kristina Malik, MD, Alice Guo, MD, Neil Cabelli, MD, Alice Guo, MD, Wanda Horn, MD, Randi Rothbaum, DO, Paul Cavaluzzi, DO, Rachel Chalmer, MD, Wanda Horn, MD, Randi Rothbaum, DO, Alice Guo, MD, Neil Cabelli, MD, Alice Guo, MD, Wanda Horn, MD, Randi Rothbaum, DO, Alice Guo, MD, Neil Cabelli, MD.
Hemophilia Treatment Center (Adults and Peds)

HTC Research Projects with CDC, American Thrombosis and Hemostasis Network, HRSA

Women’s Blood Disorder Program (Collaboration with MFM)

Solomon Durojaiye
Dolly Aroyo
Ifeanyu Okol
Monica Spencer

Harry Rosado
Ariel Levy
Sheneka Dlamage
Krysthina Mathelier
Sickle Cell Program

- Annual Sickle Cell Awareness Day
- Dr. Minniti honored at the Sickle-Cell Thalassemia Network Gala
- 25% increase in clinic visits
- 15% decrease in ED presentations
- DSRIP and PCORI funding
- Studies: sickle gene therapy, transplant, transition, pulmonary hypertension, ulcers, crisis therapy
DIVISION OF HEPATOLOGY

Allan Wolkoff, MD
Chief, Division Hepatology
Professor of Medicine
Professor of Anatomy & Structural Biology
Herman Lopata Chair in Liver Disease Research
Director, Marion Bessin Liver Research Center
Highlights

**Basic Research**
New Recruits

- **Carolina Eliscovich, PhD**
  Imaging

- **Esperanza Arias-Perez, PhD**
  HCC and Autophagy

- **Eva Billerbeck, PhD**
  HCV and Immunology;
  Pinnacle Award, AASLD

- **Sofia De Oliveira, PhD**
  HCC and NAFLD in Zebrafish

- **David Wang, MD, PhD**
  NAFLD and Lipid Metabolism

**Liver Research Center**
- Grant needs to be resubmitted
- Established a consortium with
  the liver group at Mt. Sinai

**Clinical Operations**
New Recruits:

- **Clara Tow, MD**
  Transplant Hepatology

- **Alvin Htut, MD**
  Transplant Hepatology

- 51 liver transplants 2018 (70 projected for 2019)
- > 100 new cases of HCC per year
- > 1000 patients with NAFLD/NASH
- New - Weiler inpatient Hepatology service
Fellowship Expansion

Kristina Chacko, PD
- ACGME accredited transplant Hepatology fellow at Moses
- Non-ACGME Hepatology fellow

Samuel Sigal, MD
Starfish Program: Hepatitis B Outreach
- 120,000 West Africans live in the Bronx
- Prevalence of chronic HBV: 10-15%
- Chronic HBV → morbidity and mortality
- Outreach educational program -> religious and cultural organizations
- Grants in 2019 from NYC, Gilead, Bloomberg Foundation.
DIVISION OF HOSPITAL MEDICINE

William Southern, MD, MS
Chief, Division of Hospital Medicine
Professor of Medicine
Hospital Medicine: Leadership

Keron Lezama, MD  
Service Director  
Einstein

Jessica Dekhtyar, MD  
Service Director  
Moses

Andrea Porrovecchio, MD  
Service Director  
Wakefield

Jeff Ceresnak, MD  
Associate Chief, Clinical

Sarah Baron, MD, MS  
Director, Quality Improvement

Matt Shaines, MD  
Associate Chief, Education

102 MDs  
175 PAs  
829 Hospital Beds  
45,000 Admitted  
7 ACU’S
Research Achievements

Cristina Gonzalez, MD
- Implicit Bias
- Received funding from NIH, K23 award

Will Southern, MD
- Retract-and-Reorder Measure (RAR):
  - Major publications:
    - Pediatrics, JAMA, JAMA Pediatrics, JAMA IM

Matt Shaines, MD
- Peer Observation:
  - Observed Teaching Rounds
  - Structured evaluation tool

Todd Cassese, MD
- Peer Observation:
  - Observed Teaching Rounds
  - Structured evaluation tool
Liise-anne Pirofski, MD
Chief, Division of Infectious Diseases
Professor of Medicine
Professor of Microbiology & Immunology
Selma and Dr. Jacques Mitrani Chair in Biomedical Research
Clinical Programs

Immunocompromised Patient and Transplant (ICT)

- Abdominal transplant
- Heart/lung transplant
- Oncology

AIDS Center

- Largest site in NYS > 3300 patients
- Viral suppression top 25% in US
- Large clinical trial infrastructure

Oval Center

- Sexual healthcare prevention, screening, treatment
- New: HIV care/prevention in LGBTQ

Barry Zingman, MD
Grace Monamoto, MD
Yoram Pulus, MD, PhD
Vicki Muggia, MD
Vagish Hemmige, MD
Rachel Bartash, MD
Peggy McCort

Julian Torres, MD
Robert Grossberg, MD
Ralph Bernardo, DO
Clinical Programs

Outpatient Antibiotic Therapy (OPAT)
- Program director: Priya Nori, MD
- Potential improvements: readmissions, LOS, etc.

Antibiotic Stewardship Program (ASP)
- Director: Priya Nori MD
- IDSA Center of Excellence

Hospital Epidemiology (HE) and IPC
- Hospital epidemiology: Director: T. Madaline, MD
- Infection Prevention/Control: Director: G. Weston, MD

Grants
- NIH R01: 5 PI’s; 12 grants (4 new)
- Global Health Center
- T32: Geographic medicine & Emerging infections
DIVISION OF NEPHROLOGY

Michael Ross, MD
Chief, Division of Nephrology
Professor of Medicine

Overall

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<td>#27</td>
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Clinical Operations

Kidney Transplants

- Best 3 year survival in NYC
- Active research: 10 publications

165 Kidney Transplants

New Clinical Initiatives

Molly Fisher, DO
- HIV Nephrology Clinic
- Ambulatory BP Monitoring Program

Deepak Sharma, MD; Wei Chen, MD; Joshua Stern, MD (Urology)
Nephrolithiasis Clinic

New NIH Grants

Matthew Abramowitz, MD (R03)
Enver Akalin, MD (Site PI for 3 NIH trials)
Wei Chen, MD (K23)

Ladan Golestaneh, MD (R18)
Michal Melamed, MD (R18, T32)
Tanya Johns, MD (KL2)
Population Health and Quality Initiatives

CMO-Funded Initiatives
Reducing Preventable ESRD Admissions
Ladan Golestaneh, MD

Kidney Care Program
Improving outcomes in underserved Bronx population with non-dialysis CKD and preventing progression to dialysis
Tanya Johns, MD

Improving Safety of Dialysis Vascular Access
Michele Mokrzycki, MD
• Chair, ASN Transforming Dialysis Safety Vascular Access Task Force, 2019
• Member, CDC Making Dialysis Safer Coalition, 2019
DIVISION OF PULMONARY MEDICINE

Eric Epstein, MD
Interim Chief, Division of Pulmonary Medicine
Associate Professor of Medicine
Highlights & Accomplishments

Interventional Pulmonary Medicine Expansion

- Dr. Vivek Murthy
- Advanced therapeutic & diagnostic pulm. procedures
- Open central airway obstruction; pleuroscopy; electromag. navigational & U/S-guided bronchoscopy
- Bronchoscopic Lung Volume Reduction (BLVR) to establish service for severe emphysema.

Lung Transplantation

- ~ 40 transplants per year!

Asthma Center

- Krystal Cleven, MD, Director,
- NP Asthma Educator
- Administration of Biologics
- Asthma Education App (ASTHMAXcel)
Research Initiatives

Genomic changes in lung related to smoking
Simon Spivack, MD, MPH
NIH

Asthma Outcomes
Sunit Jariwala, MD
NIH, AHRQ

Diagnostic Performance for EBUS/NAV Bronchoscopy
Chirag Shah, MD

Cough Clinical Trials
Peter Dicpinigaitis, MD

IVC Filter and ICU Outcomes
Daniel Fein, MD

Epidemiologic WTC studies: NIOSH, CDC
David Prezant, MD; Krystal Cleven, MD

Tuberculosis Testing, Vulnerability, and Outcomes
Divya Reddy, MBBS

Interventional Bronchoscopy Outcomes
Ali Sadoughi, MD

Targeting ribosomal proteins as vaccine candidates against M.Tb (Porcelli Lab) - NIH
Shivani Singh, MBBS, PhD

JAMA Network, Sept. 6, 2019 D. Prezant
DIVISION OF RHEUMATOLOGY

Chaim Putterman, MD
Chief, Division of Rheumatology
Professor of Medicine
Professor of Microbiology & Immunology
Research Accomplishments

Research Topics

- **SLE**: pathogenesis, biomarkers, therapies, renal disease
- **Rheumatoid arthritis**: New therapies
- **Osteoarthritis**: pathogenesis of cartilage disease
- **Amyloidosis**
- **Thyroiditis and rheumatic diseases**
- **Health disparities in rheumatology**

Grants

**Anna Broder, MD, MSc**
- K23 (lupus-related end stage renal disease)

**Irene Blanco, MD**
- Grant to create a national health disparities curriculum for fellows
- Project lead, Office of Minority Health grant awarded to the ACR to use community health workers to recruit patients to lupus trials

**Shudan Wang, MD**
- KL2 and CRTP award
Future Initiatives

In The Works

- Musculoskeletal Disease Center
- With ID: Infection prevention in immunosuppressed Pts on biologics
- Center for lupus nephritis
- Center for spondyloarthropathies (psoriatic arthritis)
- Cancer & autoimmunity
Department of Medicine
Strategic Plan

“As you enter positions of trust and power, dream a little before you think.”
- Toni Morrison

“Shoot for the moon. Even if you miss you’ll land among the stars.”
- Norman Vincent Peale
All evaluations must be done electronically, within 24 hours, in order for you to receive CME credit.

THE CODE FOR TODAY'S PRESENTATION IS:

96POUF