State of the Department

Department of Medicine
Albert Einstein College of Medicine
Montefiore Health System

Yaron Tomer, MD
Chair, Department of Medicine
Our Mission: Building Upon Our Bronx Roots

Our mission is 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

Thomas K. Aldrich
Former Chief of Pulmonary Medicine

Norman Bank
Former Chief of Nephrology

David Hamerman
Former Chair of Medicine and Geriatrics

Harold Keltz
Professor of Pulmonary Medicine

Milford Fulop
Former Chair of Medicine

Ronald Nagel
Former Chief of Hematology
Department of Medicine
Our Strengths and Assets

- Unified, world-class hospital and medical school
- Visionary leadership
- Exceptional faculty, scientists, educators, providers, and staff
- Strong bond with the vibrant & diverse Bronx community
- Strong institutional identity with unparalleled sense of mission
- Outstanding basic science departments with growing connections to clinical departments
Department of Medicine
Who Are We?

Clinical Operations
- 988 Physicians
- 914 Beds
- ~ 45,000 discharges/year

Primary Care
- ~ 40,000 pts.
- ~ 110,000 visits

Education
- 774 Medical students
  - Preclinical courses
  - Clinical clerkships

Clinical Trainees
- 156 residents
- 143 fellows
- 74 Wakefield residents

Research
- 120 PI’s
  - 97 MD’s
  - 11 PHD’s
  - 8 MD/PHD’s
  - 4 DO, MBBS
Department of Medicine
New Leadership Recruitments

Michael Ross, MD
Division Chief of Nephrology

Harish Seethamraju, MD
Medical Director
Lung Transplant Program

Sharon Rikin, MD
Director of Ambulatory Quality Improvement

Sheena Moultrie, MS
Practice Director, DoM
Faculty Practice

Giora Weisz
Director of Interventional Cardiology

Ongoing leadership recruitments:
- Endocrinology
- GI
Department of Medicine
2017 New Recruits

46 New Faculty
- 15 Instructors
- 23 Assistant Professors
- 4 Associate Professors
- 4 Professors

5 New Divisional Clinical Administrators
- Madeline Solis
  Allergy & Dermatology
- Jeanette Soto
  ID & Rheumatology
- Yuk Chan
  Pulmonary & Renal
- Juanita Sanchez
  General Internal Medicine
- Shadrack John
  Endocrine & Geriatrics
Department of Medicine
Clinical Mission: Current Focus

Inpatient Operations: Hospitalists → Specialists
- Short length of stay
- No hospital-acquired complications (HAC)
- Reduce 30-day readmission rate

Outpatient Operations: Primary Care → Specialists
- Access to care - appointment within 2 weeks / Triage
- Outstanding quality + high efficiency
- High patient & physician satisfaction

Population Health: DGIM, Epidemiology & Population Health
- Improve outcomes at population level
- New technologies:
  - Cloud-based clinical data capture and analysis
  - Telemedicine
Department of Medicine
Faculty Practice

Leadership Team

- Jennifer Garner, MSW
  Unified Administrator

- Eric J. Epstein, MD
  Medical Director
  Faculty Practice

- Sheena Moultrie
  Faculty Practice Administrator

- Jasmine Porter
  Billing Supervisor

Four Main Campuses

- MAP2 Specialties
- 3514 Dermatology Center
- Hutch 12 Specialties: GIM, GI, Dermatology
- 495 Westchester Specialties (Hartsdale)

Other Sites

- Dermatology UV Center
- Westchester Square Sleep Lab
- Grand Concourse Specialties
- Cross County Allergy
- Center for Positive Living (HIV/AIDS center)
Department of Medicine
Financial Operations

**Collections**

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
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<td>120%</td>
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</table>

**Total RVUs**

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<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
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<tr>
<td>120%</td>
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</table>
DoM Faculty Practice
Ambulatory Activity Summary

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Volume</th>
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<tbody>
<tr>
<td>Allergy &amp; Immunology</td>
<td>21,503</td>
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<tr>
<td>Dermatology</td>
<td>46,738</td>
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<tr>
<td>Endocrinology &amp; Diabetes</td>
<td>25,675</td>
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<tr>
<td>Gastroenterology</td>
<td>19,716</td>
</tr>
<tr>
<td>Geriatrics</td>
<td>4,556</td>
</tr>
<tr>
<td>Hepatology</td>
<td>2,910</td>
</tr>
<tr>
<td>Infectious Disease</td>
<td>38,288</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>399,312</td>
</tr>
<tr>
<td>Nephrology</td>
<td>42,536</td>
</tr>
<tr>
<td>Pulmonology</td>
<td>11,530</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>10,738</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>623,502</strong></td>
</tr>
</tbody>
</table>
DoM Faculty Practice
New Initiatives

Call Center
- Cadence Coordinated Scheduling

Access (Next 3rd available 8-104 days)
- Access Initiative
- ZocDoc online scheduling: Pulmonary, Allergy, GI
- Crystal Run referral program

No Show Reduction
- Streamlining referral process
- Human to human confirmation calls

eConsults
- 50% reduction in face-to-face consults
- Triage referrals

Revenue Cycle Enhancements
- DOM Billing Supervisor - Jasmine Porter
- Audits and training

Physician Dashboard
- Visit volume, wRVU, collections, patient satisfaction, and more

Implementing BI: Collaboration with Parsa Mirhaji
- Use BI to improve access and reduce no show

NYBG Aug. 2017
Department of Medicine
Research

Marla Keller, MD
Vice Chair for Research
Associate Director of the Block Institute for Clinical and Translational Research

Cevita Webb, MPH
Director of Research Operations
Senior Administrator
Department of Medicine Research Mission

**Mission**
- To perform cutting edge research to generate new knowledge that will help our patients

**Focus → Translational Research**
- Preclinical translational research
- Clinical translational research

**Grow research operations and funding**
- Addiction, liver, diabetes, aging, TB, critical care, etc.

**Recruit in areas of deficiency**
- IBD, obesity, nephropathies, transplantation immunology
Blue Ridge Institute for Medical Research DOM Ranking - 2016

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>NIH Funding</th>
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<tbody>
<tr>
<td>1</td>
<td>UCSF</td>
<td>$200.3M</td>
</tr>
<tr>
<td>2</td>
<td>Johns Hopkins University</td>
<td>$164.3M</td>
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<td>3</td>
<td>Vanderbilt University</td>
<td>$162.9M</td>
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<td>4</td>
<td>Duke University</td>
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<tr>
<td>5</td>
<td>University of California Los Angeles</td>
<td>$111.8M</td>
</tr>
<tr>
<td>6</td>
<td>Columbia University</td>
<td>$105.3M</td>
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<tr>
<td>7</td>
<td>Yale University</td>
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<tr>
<td>8</td>
<td>University of Washington</td>
<td>$98.4M</td>
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<tr>
<td>9</td>
<td>University of Pennsylvania</td>
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<tr>
<td>10</td>
<td>University of California San Diego</td>
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<td>11</td>
<td>Stanford University</td>
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<td>12</td>
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<td>13</td>
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<tr>
<td>14</td>
<td>Washington University</td>
<td>$89.7M</td>
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<td>15</td>
<td>Icahn School of Med, Mount Sinai</td>
<td>$81.6M</td>
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<td>16</td>
<td>University of Michigan</td>
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<td>18</td>
<td>Northwestern</td>
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<td>19</td>
<td>University of Wisconsin-Madison</td>
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<td>20</td>
<td>Einstein</td>
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<td>21</td>
<td>UT Southwestern</td>
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<tr>
<td>22</td>
<td>University of Colorado</td>
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<tr>
<td>23</td>
<td>University of Chicago</td>
<td>$54.1M</td>
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<tr>
<td>24</td>
<td>New York University</td>
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</tr>
<tr>
<td>25</td>
<td>Emory University</td>
<td>$49.3M</td>
</tr>
</tbody>
</table>

* 2015 Rankings # 25
NIH K23, KL2, K01, K08, K99/R00 Career Development Awardees (19!)
Clinical Research Training Program (CRTP)

Class of 2018
- Anna Bortnick (Cardiology)
- Helena Blumen (Geriatrics)
- Claudene George (Geriatrics)
- Jesus Anampa (Oncology)
- Sarah Baron (Hospital Med)

Class of 2019
- Tiffany Lu (DGIM)
- Jules Chyten-Brennan (DGIM)
- Deepika Slawek (DGIM)
- Jen-Ting (Tina) Chen (CCM)
Department of Medicine

**Six** NIH-Funded Centers

- **Albert Einstein Cancer Center**
  - David Goldman*

- **Diabetes Research Center**
  - Jeff Pessin

- **Institute for Aging Research**
  - Nir Barzilai

- **Marion Bessin Liver Research Center**
  - Allan Wolkoff

- **CTSA**
  - Harry Shamoon

- **NY Regional Center for Diabetes Translation Research (CDTR)**
  - Elizabeth Walker

*Current search for new Cancer Center Director*
Established: 1974
Continuously funded by NIH for > 40 years
38 funded faculty
Multi-disciplinary
12 academic departments
Extra-mural funding (mostly NIH):
NIH Center Core Grant – direct costs $750,000/year
Einstein/Montefiore investigators ~ $12M
Einstein-Mount Sinai Diabetes Research Center

**Director:** Jeff Pessin, PhD

- **Established in 1977** (Norman Fleischer, MD)
- Continuously funded by NIH for ~ 40 years
- **138 Faculty**
  - 88 Einstein & Montefiore;
  - 50 at affiliated institutions

**Extra-mural Funding (mostly NIH):**

- NIH Center Grant – direct costs $1.25M/year
- Einstein/Montefiore ~ $30M
- Other affiliated institutions ~ $26M

**Core Facilities:**

- Animal physiology – **Gary Schwartz**
- Metabolomics – **Irwin Kurland**
- Islet cell biology – **Adolfo Garcia-Ocana**
- Biomarker analytic research core – **Daniel Stein**
- Translational Research Core – **Jill Crandall**
Clinical Trials

~ 140 active trials (except Oncology)

> $4M paid to date (since 2012)

- Cardiology ($1.1M), Allergy ($800K), ID ($700K), GI, Derm and Nephrology ($300K each), Critical Care ($200K)

Training required by all PIs and research staff

Velos, Epic, Good Clinical Practice
New Research Initiatives

Recruitments
• Liver Center
• Diabetes Research Center
• Nephrology

Support for K-awardee - New Policy
• Financial, administrative & mentoring support
• Research Effort ≥ 75% per NIH guidelines (≤ 25% clinical)
• Clinical not cover salary → DoM bridge gap to max
• Additional OTPS support
• ~ $1M investment per year (~$50,000/K awardee)

Support for CRTP Participants

Clinical Trials Initiatives
• Streamlining submission and oversight

Departmental Resources – Biostatistical Support
• Dr. Wenzhu Mowrey (except Oncology, Cardiology, DGIM)
• Priorities: Grant Proposals, Data Analysis, Manuscripts, Study Design
• To date: assisted 13 faculty (6 divisions); 5 grant submissions (5 funded), 6 manuscripts published, 9 abstracts presented

NYBG August 2017
Faculty Affairs

Elizabeth Kitsis, MD
Vice Chair for Faculty Affairs and Professionalism
Associate Professor of Medicine (Rheumatology)
Associate Professor of Epidemiology & Population Health
Faculty Affairs

- Credentialing (> 500/year)
- Appointments & Promotions (5 Assoc Prof, 5 Professors)
- Grand Rounds
- Department of Medicine Awards
- Mentoring Program
Grand Rounds Attendance 2017

Remote Participation:
- September: 229
- October: 243
- November: 250
- December: 199
- January: 249
- February: 243
- March: 380
- April: 216
- May: 264
- June: 275

Weiler:
- September: 166
- October: 178
- November: 209
- December: 170
- January: 97
- February: 223
- March: 209
- April: 110
- May: 69
- June: 154

Cherkasky:
- September: 242
- October: 226
- November: 199
- December: 190
- January: 279
- February: 116
- March: 195
- April: 106
- May: 340
- June: 207
# Department of Medicine Awards

<table>
<thead>
<tr>
<th>Award</th>
<th>2016</th>
<th>2017</th>
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<tbody>
<tr>
<td>Distinguished Clinician</td>
<td>Philip Lief</td>
<td>Robert Forman</td>
</tr>
<tr>
<td>Humanism</td>
<td>Clement Tagoe</td>
<td>Golda Hudes</td>
</tr>
<tr>
<td>Citizenship</td>
<td>Belinda Ostrowsky</td>
<td>Josephe DeLuca</td>
</tr>
<tr>
<td>Rising Star</td>
<td>N/A</td>
<td>Priya Nori</td>
</tr>
</tbody>
</table>
Mentoring Program

What Have You Gained?

• My relationships with faculty and colleagues have deepened and become more meaningful.
• Posters for two national meetings
• Knowing other junior faculty who are in the same “struggle”
• Gained access to and learned how to use statistical software
• A better sense of perspective about different career paths
Medical Education Mission

- Train physicians of the 21\textsuperscript{st} century
- Train physician-scientists
- Social medicine
- Community medicine
- **Leaders in medicine**
Amanda Raff, MD
Associate Chair of Medicine for Undergraduate Medical Education
Associate Professor of Medicine (Nephrology)
## Undergraduate Medical Education Foundations: Years 1 & 2

### 130 Faculty; 15 Course Directors

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<thead>
<tr>
<th>Department</th>
<th>Directors</th>
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<tbody>
<tr>
<td>Bioethics</td>
<td>• Hannah Lipman</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>• Charles Nordin</td>
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<tr>
<td>Dermatology</td>
<td>• Caroline Halverstam</td>
</tr>
<tr>
<td>Endocrine</td>
<td>• Eric Epstein</td>
</tr>
<tr>
<td>EPHEM</td>
<td>• Robert Goodman</td>
</tr>
<tr>
<td>GI</td>
<td>• Doug Simon</td>
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<tr>
<td>ICM</td>
<td>• Felise Milan Sandra Oza</td>
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<td>Hematology</td>
<td>• Irina Murakhovskaya</td>
</tr>
<tr>
<td>Micro/ID</td>
<td>• Josh Nosanchuck</td>
</tr>
<tr>
<td>Musculoskeletal</td>
<td>• Irene Blanco</td>
</tr>
<tr>
<td>Renal</td>
<td>• Amanda Raff</td>
</tr>
<tr>
<td>Parasitology</td>
<td>• Christina Coyle</td>
</tr>
<tr>
<td>Population Health</td>
<td>• Christina Gonzalez</td>
</tr>
<tr>
<td>Pulmonary</td>
<td>• David Prezant</td>
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[Montefiore - The University Hospital]

[Albert Einstein College of Medicine]
## Undergraduate Medical Education Sites and Site Leaders

<table>
<thead>
<tr>
<th>Site/Average Number Students Per Rotation</th>
<th>Site Leaders</th>
<th>Site/Average Number Students Per Rotation</th>
<th>Site Leaders</th>
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<tr>
<td>Moses</td>
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<td>Wakefield</td>
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<tr>
<td>Clerkship (10 – 12) Sub-I (8 – 10)</td>
<td>Vafa Tabatabaie Jessica Pacifico</td>
<td>Clerkship (6) Sub-I (2)</td>
<td>Colette Knight Olena Slinchenkova</td>
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<tr>
<td>New Rochelle</td>
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<td>Weiler</td>
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<tr>
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<td>Marie Lamsen Ashutossh Naaraayan</td>
<td>Clerkship (10) Sub-I (6)</td>
<td>Serena Roth Jay Dobkin</td>
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<td>Jacobi</td>
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<td>LIJ</td>
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<tr>
<td>Clerkship (10 – 12) Sub-I (6 - 8)</td>
<td>Mimoza Meholli Scott McGarvey</td>
<td>Clerkship (4)</td>
<td>Syed (Ejaz) Ahmad</td>
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<td>St. Barnabas</td>
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<td>Clerkship (4)</td>
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<td>Malcolm Phillips</td>
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**Montefiore**

The University Hospital

Albert Einstein College of Medicine
UME: 2016 Medical School Graduation Questionnaire

Rate the Quality of Your Educational Experience in the Internal Medicine Clerkship

[Bar chart showing percentage ratings for various years]
Undergraduate Medical Education

Achievements

Dedication to Einstein

• Many graduates stay or return to Montefiore

Current full time & voluntary staff

• 115 Einstein graduates

Steven Safyer, MD
President and Chief Executive Officer
Montefiore Medicine
Class of 1982
Internal Medicine Residency

Rosemarie Conigliaro, MD
Internal Medicine Residency Director
Assistant Dean, Albert Einstein College of Medicine
Professor of Medicine (DGIM)
Internal Medicine Residency Recruitment 2017

By the Numbers

- 4062 applicants (all tracks)
- 3927 Categorical applicants (+PC/SIM duals)
- 844 PC/SIM applicants
- 750 invited
- 580 interviewed
- 525 ranked (95 PC/SIM ranked)
- 49 accepted (10 PC/SIM)

Chief Residents 2017-2018
Internal Medicine Residency
IM Categorical Match 2013-2017

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<tr>
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<tbody>
<tr>
<td>Applicants Ranked</td>
<td>567</td>
<td>525</td>
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<tr>
<td>Lowest Ranked Applicant Matched</td>
<td>452</td>
<td>348</td>
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<tr>
<td># Ranked in 1st 200</td>
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<td>12</td>
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<tr>
<td>Ave. Step 1 Score</td>
<td>231</td>
<td>241</td>
</tr>
<tr>
<td>Ave. Step 2 Score</td>
<td>242</td>
<td>250</td>
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<tr>
<td>URM (cat+PC/SIM)</td>
<td>4</td>
<td>7</td>
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</tbody>
</table>

Mt. Sinai, Einstein, NYU, Columbia, Tufts, Vanderbilt

National Mean 2016:
- Step 1: 230
- Step 2: 242
# Internal Medicine Residency Graduates

<table>
<thead>
<tr>
<th>Category</th>
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<tbody>
<tr>
<td>Primary Care</td>
<td>6</td>
<td>7</td>
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<tr>
<td>Hospitalist</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Sub-specialty Fellowship</td>
<td>27</td>
<td>17</td>
</tr>
<tr>
<td>Other Fellowships (GH, RWJ, GIM, Med Ed)</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>% Matched Subspecialty Fellowship</td>
<td>100</td>
<td>95</td>
</tr>
<tr>
<td>Scholarly Work</td>
<td>49/52 (94%)</td>
<td></td>
</tr>
</tbody>
</table>
Resident Accomplishments

Research

SGIM National Meeting
- 39 Monte residents presented

Montefiore Annual Research Day
- Residents - 25 presentations

Meetings
- **2016-2017**: Monte residents presented at >20 meetings (AHA, ACH, AASLD, AAAAI, ACC, APHA)

Boards Results

<table>
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<tr>
<th></th>
<th>2015</th>
<th>2016</th>
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<tbody>
<tr>
<td>Annual Board Pass Rate</td>
<td>94%</td>
<td>97%</td>
</tr>
<tr>
<td>National Board Pass Rate</td>
<td>(89%*)</td>
<td>(90%*)</td>
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</tbody>
</table>
Wakefield Residency

Grace Kajita, MD
Wakefield Residency Director
Assistant Professor of Medicine (DGIM)
Wakefield Residency Recruitment 2017

By the Numbers

- > 4000 applicants
- 272 interviewed
- 28 accepted: 23 categorical, 5 preliminary positions
- All NRMP positions filled

2015–2017 Excellent Fellowship Matching

- Cardiology – Montefiore, St. Luke’s
- Critical Care – Montefiore
- Endocrinology – SUNY Syracuse, Henry Ford
- Geriatrics – Montefiore Wakefield
- GI/Liver – Montefiore Wakefield, Virginia Tech
- Heme/Onc – Mt. Sinai
- Nephrology – Brigham, Brown, NYMC
Wakefield Residency Program
2014-2017

Ambulatory Block
Moses Oncology rotation
Fully geographically based inpatient teams
Fundamental Critical Care Support: All interns certified
Most teams exclusively supervised by Teaching
Hospitalists Resident-Leadership Forum

Scholarly Work:
• 37 poster presentations
• Presentations at National Meetings: ACP, DDW, ATS, ACC, SGIM, ID Week

ACGME Accreditation Status
• Continued

Significant improvements
• ACGME Resident Survey
New Education Initiatives

Medical School

- **Curriculum Reform**
  - 21st Century Medical Education
  - 1.5 years basic / 2.5 years clinical
  - ↓ lectures / ↑ small group seminars & self learning
- **Diversity and Inclusion Strategic Plan**
  - Strong representation from DOM

Residency / Fellowships

- **Research Initiatives**: Johanna Daily
  - Divisional champions
  - Research Day
- **QI Initiatives**
  - Outpatient - Sharon Rikin
  - Inpatient - Sarah Baron
- **Diversity and Inclusion Initiatives**: C. Cunningham & I. Blanco
  - Goal – to recruit, retain, and foster the careers of minority students, trainees and faculty
Inpatient Quality Improvement

Sarah Baron, MD
Director of Inpatient Quality

- **Hospital Performance**
  - ACU
  - LOS
  - Readmissions
  - Med Alerts
  - Transfusion Utilization

- **Hospital Acquired Conditions**
  - *C. diff prevention*
  - VTE Prophylaxis
  - STOP Sepsis
  - CAUTI/CLABSI prevention

- **Peer Reviews**
  - Peer Review Com.
  - EM / IM
  - RCA
  - Diabetes
  - Sepsis

- **QI Infrastructure**
  - Divisions
  - Residency

- **QI Education Leading**
  - QI Grand Rounds
  - QI Fellows training

---

Montefiore
THE UNIVERSITY HOSPITAL

Albert Einstein College of Medicine

Inpatient Quality Improvement

Moses Clostridium Difficile Average Turnaround Times by Week
Jan 2016 - Jul 2017

Average of Time from ordered to test finalized

2nd Test Added on April 1, 2016:
Two C. diff tests a day

3rd Test Added in May 2017:
Three C. diff tests a day
Ambulatory Quality Improvement

Ground Level Resource

- Physician-led clinic-based initiatives
  - Implement guidelines
  - Improve work-flow
  - Identify and track process and outcome measures

System-Based QI Projects

- Develop eConsult program
  - Improve patient access to Specialty care
  - Improve communication between Primary Care and Specialists

Curriculum Development

- For residents and fellows
  - Partner with GME leadership and medical directors to conduct trainee-driven ambulatory QI initiatives

Sharon Rikin, MD
Director of Outpatient Quality
Division of Allergy & Immunology

David Rosenstreich, MD
Chief, Division of Allergy & Immunology
Professor of Medicine
Professor of Microbiology & Immunology
Professor of Otolaryngology
Division of Allergy & Immunology
Drug & Food Allergy Centers

Elina Jerschow, MD, MSc
Director, Drug Allergy Center

• Drug Allergy Testing
• Drug & Aspirin Desensitization

Research
• Mechanism of ASA exacerbated respiratory dis.
• Penicillin testing without antecedent skin test
• Asthma outcomes in Latino population of US

Manish Ramesh, MD, PhD
Director, Food Allergy Center

Clinical Programs
• Advanced Testing & Food Challenges
• Oral Immunotherapy
• Eosinophilic Esophagitis
• Immunotherapy for Hymenoptera venom allergy

Research
• Omalizumab for Pollen food syndrome
• Enhanced urticarial response at tattoo sites
Faculty Programs
Drug Trials & Chemo Desensitization

Golda Hudes, MD, PhD
Director, Drug Industry Trial Program

- Tralokinumab (anti-IL13) in asthma
- MSTT 1041A (anti-IL33) in asthma
- Benralizumab (anti-IL5) in asthma
- Dupilimab (anti-IL4/IL13) in nasal polyposis
- Observational study in asthma and COPD

Melissa Immatteo, MD
Director, Chemotherapy / Biologic Desensitization

- Testing and parenteral desensitization for patients allergic to chemotherapy or biologic agents

Research

Clinical Programs
Faculty Programs
Severe Asthma & Sinusitis Centers

Severe Asthma Center:
Pulmonary / Allergy

Director: David Rosenstreich, MD
Director: Simon Spivack, MD
Head Allergist: Sunit Jariwala, MD

Clinical
- Evaluate and treat patients with uncontrolled asthma
- Asthma educator & dedicated respiratory therapist

Research
- ASTHMA-Educator mobile app (Am Lung Association)
- Electronic Monitoring of Med Adherence (Stony Wold-Herbert Fund)
- Promoting Asthma Guidelines and Management through Technology-Based Interventions and Care Coordination (PRAGMATIC) (NHLBI R01)
- Symptom perception, outcomes in older asthmatics (NHLBI R01)

Severe Sinusitis Center:
Allergy / ENT

Director: Elina Jerschow, MD, MSc
Director: Denisa Ferastraoaru, MD

Clinical
- Comprehensive care for severe sinusitis
- Nasal Challenge for allergic rhinitis
Division of Cardiology

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
Division of Cardiology
Leadership Team

Chief
Mario Jorge Garcia, MD

Academic Vice Chief
Ileana Pina, MD

Clinical Vice Chief
Ulrich Jorde, MD

Quality Vice Chief
David Slovut, MD

Westchester Vice Chief
Mark Greenberg, MD

Clinical
David Vorchheimer, MD

Imaging
Daniel Spevack, MD

Heart Failure
Ulrich Jorde, MD

Intervention
Giora Weisz, MD

Electrophysiology
Luigi Di Biase, MD

Outreach
Juan Escarfuller, MD

Wilf Cardiovascular Research Institute
Richard N. Kitsis, MD

New Montefiore CCU
# Electrophysiology Program

<table>
<thead>
<tr>
<th>Procedures</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacemaker Implants</td>
<td>541</td>
<td></td>
</tr>
<tr>
<td>ICD and CRT Devices</td>
<td>503</td>
<td></td>
</tr>
<tr>
<td>Other Procedures *</td>
<td>1,433</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,477</strong></td>
<td></td>
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</tbody>
</table>

**Early Complications**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mortality</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Major Vascular Events</td>
<td>2</td>
<td>0.01</td>
</tr>
</tbody>
</table>

*ICD = Implantable Cardioverter Defibrillator; CRT = Cardiac Resynchronization Therapy*

* Ablations, Lead Extractions, Electrical Cardioversions
# Trans-catheter Aortic Valve Replacement TAVR Team

<table>
<thead>
<tr>
<th>Department</th>
<th>Team Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT Surgery</td>
<td>Joseph J DeRose, MD, Mei L Chau, MD</td>
</tr>
<tr>
<td>Cardiology</td>
<td>David P Slovut, MD, PhD, Mark Greenberg, MD, Cynthia Taub, MD (ECHO)</td>
</tr>
<tr>
<td>Cardiac Anesthesiology</td>
<td>Jonathan Leff, MD, Christopher Tanaka, MD</td>
</tr>
<tr>
<td>Cardiac Radiology</td>
<td>Linda Haramati, MD</td>
</tr>
<tr>
<td>TAVR Coordinator</td>
<td>Mary Meneses, NP</td>
</tr>
</tbody>
</table>

[Image: Montefiore Logo]
# Heart Transplant: Adult Patient Survival

<table>
<thead>
<tr>
<th></th>
<th>3 Year Patient Survival (Observed)</th>
<th>3 Year Patient Survival (Expected)</th>
<th>Hazard Ratio</th>
<th>95% Credible Interval HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Montefiore</td>
<td>91.43%</td>
<td>82.43%</td>
<td>0.58</td>
<td>0.19, 1.18</td>
</tr>
<tr>
<td>Columbia</td>
<td>82.78%</td>
<td>82.91%</td>
<td>1.01</td>
<td>0.67, 1.41</td>
</tr>
<tr>
<td>Mount Sinai</td>
<td>81.67%</td>
<td>79.61%</td>
<td>0.93</td>
<td>0.49, 1.50</td>
</tr>
<tr>
<td>Westchester</td>
<td>77.42%</td>
<td>85.61%</td>
<td>1.38</td>
<td>0.63, 2.41</td>
</tr>
<tr>
<td>Strong Memorial</td>
<td>80.77%</td>
<td>85.52%</td>
<td>1.21</td>
<td>0.49, 2.26</td>
</tr>
<tr>
<td>National Data</td>
<td>83.59%</td>
<td>N/A</td>
<td>1.00</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Research / Scholarly Activities

194 Publications in Peer-reviewed Journals (2015-present)

32 Active Grants
- 20 NHLBI
- 5 AHA
- 3 DOD

34 Active Clinical Trials

Promoting a Plant-Based Lifestyle

Dr. Robert Ostfeld
Director, Cardiac Wellness Program

Montefiore
THE UNIVERSITY HOSPITAL
Albert Einstein College of Medicine
Division of Critical Care Medicine

Vladimir Kvetan, MD
Chief, Division of Critical Care
Professor of Medicine
Professor of Anesthesiology
Associate Professor of Surgery

Montefiore
THE UNIVERSITY HOSPITAL
Albert Einstein College of Medicine
## Critical Care Medicine

### Adequate faculty coverage 24/7

- ICU without walls rapid response
- Standardized care and safety: All ICU’s
- Adequate non-physician staffing and equipment
- Optimize quality and costs
- Scholarly Activities / Research / Education

### Location

<table>
<thead>
<tr>
<th>Location</th>
<th>No. Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moses</td>
<td></td>
</tr>
<tr>
<td>Medical ICU</td>
<td>12</td>
</tr>
<tr>
<td>Surgical ICU</td>
<td>12</td>
</tr>
<tr>
<td>Cardiothoracic ICU</td>
<td>12</td>
</tr>
<tr>
<td>Neuro ICU (Dec 1st, 2017)</td>
<td>10</td>
</tr>
<tr>
<td>Medical Liver/Surgical Progressive Care Unit</td>
<td>15</td>
</tr>
<tr>
<td>24/7 Consult service (ICU w/o Wall)</td>
<td></td>
</tr>
<tr>
<td>Weiler</td>
<td></td>
</tr>
<tr>
<td>Medical ICU</td>
<td>14</td>
</tr>
<tr>
<td>Cardiothoracic/Surgical ICU</td>
<td>10</td>
</tr>
<tr>
<td>Surgical Progressive Care Unit</td>
<td>12</td>
</tr>
<tr>
<td>24/7 Consult service (ICU w/o Wall)</td>
<td></td>
</tr>
<tr>
<td>Wakefield</td>
<td></td>
</tr>
<tr>
<td>Medical/Surgical ICU</td>
<td>16</td>
</tr>
<tr>
<td>24/7 Consult service (ICU w/o Wall)</td>
<td></td>
</tr>
<tr>
<td>Total ICU/Progressive Care Beds (by April 2016)</td>
<td>113</td>
</tr>
</tbody>
</table>

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Montefiore

THE UNIVERSITY HOSPITAL

Albert Einstein College of Medicine
CCM: Academic Research

Peer Reviewed Publications from CCM by Year

Grant Dollars Awarded per Year

* 2017 reflects half-year data only

Research Grants Awarded to Critical Care Medicine by Year
> 90% are NIH or CMS grants

Michelle Ng Gong, MD
Chief of Research, Division of Critical Care
Professor, Epidemiology & Population Health

JAMA, 2016
NEJM, 2017
Among the top enrollers for PETAL trials over the last 2 years

NIH funded clinical trials network aimed at preventing ARDS and improving outcomes
CCM: Quality & Process Improvement 2015-17

Lean Curriculum & Projects

• CLABSI
• Rapid Transfer Protocol
• Tele-Consultation between Moses and Jack D. Weiler Campuses (Pilot: Neurosurgery)

Analytics: Unit-based Scorecard

Facing Illness as a Collective Unit (FICU): Vertical Care Integration for ICU Survivors:

• Part 1: Early Post-ICU Syndrome Intervention Care for Adults (EPIC-A) (Pilot: Moses Campus)

Figure. A patient who received dual liver and kidney transplantation on postoperative day one using Nintendo Wii Golf in adjunct to his physical therapy, as a tool in his cognitive and physical rehabilitation in the ICU with CCM QI coordinator (Permission granted by the patient).
Division of Dermatology

Steven R. Cohen, MD, MPH
Chief, Division of Dermatology
Professor of Medicine (Dermatology)
Pediatric Dermatology Specialty Services

Diana H. Lee, MD, PhD
Director

- Pediatric Dermatology Care
  - Infant, Toddler, Adolescent

- Lupus Nephritis Clinic
  - Beatrice Goilav, Pediatric Nephrology
  - Dawn Wahezi, Pediatric Rheumatology

- Genetics-Dermatology Clinic
  - Robert Marion, Genetics
  - Kate Gallagher, Genetics
Supportive Oncodermatology

Beth McLellan, MD
Director, Center for Cancer Care

Supportive Oncodermatology focuses on treatment of skin diseases in cancer patients and survivors including:

- Radiation dermatitis
- Surgical complications
- Chemotherapy side effects
- Graft vs Host disease
Dermatologic Surgery
Cosmetic Service

Dermatologic Surgery Fellowship
Cosmetic Dermatology Fellowship

Cosmetic Service
• Neurotoxin (Botox)
• Fillers and Injectables
• Pigmented Lesion, Vascular, Tattoo, Resurfacing Lasers
• Endovenous Ablation for Varicose Veins
• Laser Liposuction
• Chemical Peels
• Scar Revision
• Blepharoplasty

Dermatologic Surgery
• Microscopically controlled excision of skin cancers
• Specializing in:
  • Basal Cell and Squamous Cell Cancers
  • Superficial Melanomas
  • Rare Tumors
• Advanced facial reconstruction
• Interdisciplinary referrals include head and neck surgery, surgical oncology, plastic surgery, radiation oncology, medical oncology

David Ciocon, MD
Director of Dermatologic Surgery; Mohs Surgery; and Procedural Dermatology
Director of Clinical Operations

Montefiore
THE UNIVERSITY HOSPITAL
Albert Einstein College of Medicine
Hidradenitis Suppurativa (HS) Treatment Center

Multi-disciplinary Team
- Dermatology
- Psychology
- Pain Management
- Plastic Surgery
- Hematology
- Infectious Disease
- Pathology

HS Registry & Quality of Life Studies

HS Research

HS Support Group

HS - signs
- Chronic inflammatory skin disease
- Painful, recurrent nodules, abscesses
- High morbidity
- Huge unmet need
- 1305 Patients followed

Steven R. Cohen, MD, MPH
Director

Montefiore
The University Hospital
Division of Endocrinology and Metabolism

Norman Fleischer, MD

Chief, Division of Endocrinology
Professor of Medicine (Endocrinology)
Jacob A. and Jeanne E. Barkey Chair in Medicine
Co-Director, Diabetes Research
Division of Endocrinology and Metabolism

Major Clinical Programs

- Dr. Rita Louard
  Director, Moses Diabetes Program

- Dr. Joel Zonzsein
  Director, Weiler Diabetes Program

- Dr. Eric Epstein
  Director, Thyroid Cancer Tumor Board

- Dr. Noah Bloomgarten
  Surgery, Radiology, Pathology, Oncology

- Dr. Vafa Tabatabaie
  Director, Bone Program

- Dr. Colette Knight
  Director, Wakefield Endocrine Program

27 Faculty, 6 Fellows

Ranked #28 in the United States by USNWR 2017-18
Division of Endocrinology & Metabolism: Research

Research Funding 2017 (92% NIH)

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>$15,038,251</td>
</tr>
<tr>
<td>New in past year</td>
<td>$2,584,150</td>
</tr>
</tbody>
</table>

> 80 Publications in Past Year

Diabetes Research Center
- Currently in 40th year of funding
- Director: Jeffrey Pessin, Ph.D.

Einstein Institute for Aging Research
- Currently in 10th year of funding
- Director: Nir Barzilai, M.D.

New York Regional Center for Diabetes Translation Research

Elizabeth A. Walker, PhD, RN
Judith Wylie-Rosett, EdD, RD
GI/Liver Diseases

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

- 48 liver transplants - 2016
- > 5000 Hepatitis C patients are followed
- > 100 new cases of HCC diagnosed each year
- > 1000 adult patients with NAFLD/NASH are followed

Research Collaborators: Cuervo, Vijg, Pessin, Brazhnik, & more

Tissue and Blood biorepository

New recruitments

Drs. Samuel Sigal and Milan Kinkabwala with Alvin Fisher, recipient of hepatitis C-infected liver

Photo: Crain’s New York Business
Gastroenterology Clinical Programs

By the Numbers

- ~ 1000 hospital-based endoscopic procedures/month
- ~ 300 ambulatory endoscopic procedures/month
- ~ 400 inpatient consults each month
- ~ 300 patients seen in GI teaching clinics/month
- ~ 400 direct screening colonoscopies (via navigators) approved each month → 75% of these have the procedure
- ~ 4000 consult requests from MMG providers each month

With such high referral volume – Access is challenging
Gastroenterology Research & Education

**New GI Research Initiatives**

- **Aroniadis** (KL2): Microbiome in IBS
- **Lukin**: IBD pathobiology (Broad Institute funded)
- **Myer**: Studies of genetic colon cancer
- **Sigal/Lukin/Kwah**: Pharma trials in IBD and Liver, West African Hepatitis B Program

**CME Courses:**

- **A Day In the Gut XXIV**: Issues and Controversies in Gastroenterology, Organized by **Lawrence J. Brandt**
- **Bronx Live Endoscopy Course**: Organized by **Sammy Ho**
- **Hepatology Outreach Dinner Series**: Organized by **Sam Sigal**
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
General Internal Medicine
Clinical Portfolio

Joseph Deluca, MD
Associate Division Chief,
Clinical Affairs

4 Ambulatory teaching practices
49 Attending Physicians
219 Internal medicine residents

- FCC (Moses campus) – 73 residents, 19 attendings, students
- CFCC (Weiler campus) – 46 residents, 12 attendings
- CHCC (161st street) – 30 residents, 12 attendings
- WACC (Wakefield) – 75 residents, 6 attendings
- Faculty practice group (Hutch): 6 FT attendings

Resident Teaching Activities – Residents run clinics:

- Diabetes management & prevention
- Opioid management
- Pre-op, Medical Marijuana, Buprenorphine
- Hep C screening, Immigrant Health
- Transgender program & more
DGIM Research Portfolio: Areas of Research Focus

Substance Abuse (Opioids)

Incarceration

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

Hepatitis C

HIV/AIDS

Chinazo Cunningham, MD
Associate Division Chief, Research Resources
DGIM Research Funding 2014-2017 (in millions of dollars)
NIH R, U, K Awards & Other Funding (2017)

**R01 Awards**
- J. Arnsten: Neurocognitive effects of opiate agonist treatment in HIV+ adults
- J. Brust: Safety, pharmacokinetics & resistance to bedaquiline
- C. Cunningham: RCT of abstinence-reinforcing contingency management
- C. Cunningham: Does medical cannabis reduce opioid analgesics?
- A. Fox: Buprenorphine treatment at syringe exchanges
- A. Litwin: Intensive models of HCV care for IDUs
- S. Nahvi: Achieving smoking cessation in opioid treatment patients
- J. Starrels: Prescription opioid use, misuse, disorders and HIV outcomes

**U01 Award**
- K. Anastos: Women’s Interagency HIV Study (WIHS)

**R25 Award**
- J. Arnsten: Clinical Addiction Research and Education Program

**R34 Award**
- A. Fox: Buprenorphine group medical visits

**R03 Award**
- C. Cunningham: Resilience in HIV+ drug users

**K24 Mentoring Award**
- C. Cunningham: Mentoring researchers on drug abuse and HIV

**NIDA Clinical Trials Network Award**
- J. Arnsten: Primary care opioid use disorder treatment trial

**PCORI Awards**
- A. Litwin: Patient-centered models of HCV care for people who inject drugs

**CMMS Awards**
- A. Litwin: Project INSPIRE: Care coordination to diagnose & treat HCV

**CDC Awards**
- O. Blackstock: A PrEP mobile outreach intervention for women

**Department of Health (NYS and NYC) Awards**
- J. Arnsten: ECRIP Center
- C. Cunningham: Expanding buprenorphine treatment in FQHCs
- A. Fox: Improving linkage and access to HCV care and treatment
- A. Litwin: Expanding capacity to provide HCV care and treatment
- A. Litwin: HCV community-based screening, navigation, and treatment
- T. Lu: Expanding Opioid Overdose Prevention Program Capacity in NYC

**Industry Awards**
- A. Litwin: Artificial intelligence and gaming to optimize HCV adherence
- A. Litwin: HCV outcomes in IDUs with sovaldi-based regimens
- A. Litwin: HCV outcomes in IDUs treated with harvoni
- A. Litwin: HepLink: HCV screening and linkage to care
- M. Akiyama: Care coordination in linkage to care for HCV following release from jails
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
Geriatrics: Clinical Programs

Orthopedics Geriatrics
Wakefield Campus
- Co-management - hip fractures preoperative medical assessments for all elective joint replacements

Montefiore Co-branded Sub-Acute Rehabilitation Unit
- Hebrew Home, Riverdale partnership with Rehab Medicine

Montefiore-Einstein Center for Aging Brain (CAB)
- Established 2015
- Partnership with Neurology, Geriatric Psychiatry, Rehabilitation Medicine
- 2016: Funding as Center of Excellence in Alzheimer’s Disease from NYS DOH

13 Faculty
6 Fellows
SW, NP

Amy Ehrlich, MD
Associate Chief Clinical Programs
Division of Geriatrics Research and Grants

Helena Blumen, PhD
- KO8 award from the National Institute on Aging.

Claudene George, MD
- Institutional KL-2

Mirnova Ceide, MD
- NIH diversity supplement award as well as institutional KL-2

$2.6 M Health Resources & Services Administration (HRSA) grant in partnership with the NYU School of Nursing

Geriatrics faculty participate in 3 NIH funded RO1 grants.
Division of Hematology

Henny H. Billet, MD
Chief, Division of Hematology
Professor of Medicine
Professor of Pathology
Division of Hematology
The Year in Numbers

8 Full-time Faculty

- 19 publications
- 11 presented abstracts
- 15 invited lectures and chaired sessions
- 21 funded studies
- R01 - C. Minniti
- Ronald Nagel Memorial Symposium MMC
- Sickle Cell Day MMC
- 2017 New York Blood Club President (H. Billett)
- 2017 Excellence in Teaching Award (E. Friedman)
- 2017 Distinguished Clinician Award Nominee (E. Friedman)
Division of Hematology
Clinical Services

Hemophilia Treatment Center @Montefiore
• Since 12/2015
• First in >40 years in the region
• In conjunction with Pediatrics
• Funded by 340b HRSA/MCHB mechanism in conjunction w/ CDC
• Doubled in size in 1 year
• Seen at CFCC

Inpatient and Outpatient Bone Marrow Service
• Scheduled
• East and West Campus
• Drill based
• ~125 marrows in 2016

Thrombosis Prevention & Treatment
• Program Director: Henny Billett
• 3 NPs, 1LPN
• Inpatient Consults Service
• AC Clinic Visits (>4000/yr)
• Point of Care testing
• Inpatient Length of Stay Savings >$4m/yr

Sickle Cell Program
• Director: Caterina Minniti
• Assistant Director: Ugochi Ogu
• 3 NPs, 1 Social Worker
• Inpatient Consults Service West Campus
• Inpatient Consults and ED Consults
• Outpatient Clinics = ~2300 Patients/yr
• Inpatient Length of Stay Savings >$4m/yr
Division of Hospital Medicine

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

- Associate Division Chief
  Jeff Ceresnak

- Moses Director of Service
  Jessica Dekhtyar

  - PA Director
    Michael Sapadin

  - Hospitalists
    (40)

- Einstein Director of Service
  Tulay Aksoy

  - PA Site Chief
    Naima Abdus-Salaam

  - Hospitalists
    (30)

  - PAs
    (51)

- Wakefield Director of Service
  Andrea Porrovecchio

  - PA Site Chief
    Leslie Lehner

  - Hospitalists
    (10)

  - PAs
    (15)

- Director of Inpatient Quality
  Sarah Baron

- Division Chief
  Will Southern

- 80 Hospitalist Faculty
- 170 Physician Assistants
Reorganization of Inpatient Units: Accountable Care Unit

**Beds/Census**
- Moses: 425
- Weiler: 254
- Wakefield: 160

- **Administrative Nurse Manager**
- **Care Manager**
- **Unit Medical Director**
- **Social Worker**

ACU – NW6

- Responsible for quality of care on unit
- Real time (meaningful) data feedback
- Team building
Division of Hospital Medicine

Graduate Medical Education

- Ward Attending Months (PGY I-III, MS 3,4)
- Associate Program Directors (3 Moses/Einstein, 1 Wakefield)

Undergraduate Medical Education

- Intro to Patient (MS I)
- Physical Diagnosis (MS II)
- Clerkship & Sub-internship Site Directors (MS 3,4)
- Course Director EPHEM (MS I&II)
- **New** Sub-internship (Wakefield)
- **New** Sub-internship on Hospitalist Service (Moses)
- **New** Domain Leader (Einstein curriculum redesign)
Division of Infectious Diseases

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
# Division of Infectious Diseases

## Clinical Programs - Growth

<table>
<thead>
<tr>
<th>Program</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIDS Center</td>
<td>B Zingman, U Felsen</td>
</tr>
<tr>
<td>Oval Center</td>
<td>C Park, M Slosar-Cheah, R Khedimi, new recruit: J Torres</td>
</tr>
<tr>
<td>Travel</td>
<td>T Madaline, K Murphy, L Weiss</td>
</tr>
<tr>
<td>Immunocompromised patient and transplant infectious diseases (ICT)</td>
<td>R Bartash, V Muggia</td>
</tr>
<tr>
<td>Quality Improvement (QI)</td>
<td>T Madaline</td>
</tr>
<tr>
<td>Infection Prevention/Control (IPC)</td>
<td>B Ostrowsky &amp; S Baron</td>
</tr>
<tr>
<td>Antibiotic Stewardship (AS)</td>
<td>G Weston &amp; B Ostrowsky, R Bartash</td>
</tr>
</tbody>
</table>
# Infectious Diseases

## New Interdisciplinary Programs

### Outpatient Antibiotic Therapy (OPAT)
- T Madaline & P Nori

### Emergency Department - Infectious Diseases (ED/ID)
- T Madaline; I Leviton; S Park; J Daily; G Bontempo (new)

### Critical Care Medicine - Infectious Diseases (CCM/ID)
- U Sarwar; G Weston

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*Montefiore THE UNIVERSITY HOSPITAL*
ID Research
New Funding Since 2015

Public Health
- Smoking cessation, HIV - J Shuter (R01, NIH R01 subcontract (2))
- Oral HPV - R Grossberg (NIH co-PI)

Global Health
- Tuberculosis - J Achkar (R01)
- Tropical disease - C Coyle (CDC)
- HIV - T Madaline (Einstein GHC)

Antibiotic Stewardship
- Hand hygiene - T Madaline, P Nori, B Ostrowsky (FOJP)
- Ambulatory stewardship - R Bartash, B Ostrowsky, P Nori (UHF seed)
- Antibiotic resistance - B Ostrowsky, G Weston (NIH CRACKLE II subcontract)

Women’s Health
- STD prevention - M Keller (Population Council)

Implementation Science
- HIV testing - U Felson (K23)

Education
- History of Medicine - M Slosar-Cheah (Einstein DOE)

Immunotherapy
- Antibody therapy for pneumococcus - L Pirofski (R01)
- HIV broadly neutralizing antibodies - B Zingman (NIH R01 subcontract)

Microbial Pathogenesis
- Mycology, melanin - J Nosanchuk (R21, NIH R01 subcontract, SBIR)
Division of Nephrology

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

Evaluation and Management of Inpatients and Outpatients

- Acute kidney injury
- Chronic kidney disease and end stage kidney disease
- Electrolyte and acid-base disturbances
- Hypertension
- Nephrolithiasis

Procedures

- Hemodialysis
- Peritoneal dialysis
- Continuous renal replacement therapies (ICUs)
- Kidney biopsy
- Temporary hemodialysis catheter placement

Nephrology Faculty

- Medical Directors at 10 Bronx dialysis units

~ 1000 ESRD patients

- Conventional hemodialysis
- Nocturnal hemodialysis
- Home hemodialysis
- Peritoneal dialysis

Montefiore
THE UNIVERSITY HOSPITAL
Albert Einstein College of Medicine
Division of Nephrology

**Research**

- 7 NIH grants
- 8 industry sponsored trials
  - 3 new studies using prolyl hydroxylase inhibitor daprodustat for treatment of anemia in CKD
- Montefiore CMO Innovation Grant *(Dr. Golestaneh)*

**Transplant Nephrology**

- Pre- and post-transplant care
- Inpatient and outpatient
  - **174 kidney transplants in 2016**
    - Most deceased donor transplants in NY over past 3 years
    - Best 3-year survival in NYC of deceased donor recipients

**Research**

- **Dr. Akalin:** Co-investigator and site PI
  - 2 NIH R01 grants
  - 3 multicenter industry-supported grants

[Montefiore Logo]
Division of Pulmonary Diseases

Simon Spivack, MD, MPH
Chief, Division of Pulmonary Medicine
Professor of Medicine
Professor of Epidemiology and Population Health
Professor of Genetics
Clinical Operations

**Pulmonary Diseases Management**
- Asthma, COPD, Hemoptysis
- Environmental/Occupational lung diseases
- Diffuse, interstitial lung diseases and fibrosis
- Lung nodule and tumor evaluation
- Lung Infections/Pneumonia
- Pulmonary vascular dz, PE
- Sleep related disorders
- Pleural disease

**Procedures / Interventions**
- Bronchoscopy
- Advanced bronchoscopic procedures – Ali Sadoughi, Chirag Shah
- Pleural access
- PFT’s, Impulse oscillometry, FeNO
- Sleep Studies

**Interdisciplinary Programs**
- Outpatient Asthma Center – with Allergy
- Program for lung cancer – Cancer Center
- Critical Care Medicine – CC Division
- Pulmonary HTN - Cardiology
- Bariatrics - Surgery, Cardiology

**Lung Transplantation**

**Harish Seethamraju**
Collaboration with Surgery
Research Initiatives

- Exhaled Airway Biomarkers for Lung Cancer, Asthma (Spivack)
- Observations in Asthma Outcomes (Spivack/Jariwala)
- Tuberculosis Testing, Vulnerability, and Outcomes (Reddy)
- Interventional Bronchoscopy Outcomes (Sadoughi)
- Lung Cancer Transcriptomics/EpigenMics (Spivack)
- Diagnostic Performance for EBUS/NAV Bronchoscopy (Shah)
- Cough Clinical Trials (Dicpinigaitis)
- ICU Outcomes (Fein)
- Epidemiologic WTC Observations; Asthma, Sarcoid, Cancer (Prezant)
Division of Rheumatology
Clinical Programs

7 Faculty (+4 Jacobi), 6 Fellows

Outpatient Services
- Practice/clinics: MAP, Hutch, Scarsdale, Bronx East, Wakefield, CFCC
- Lupus Clinic

Outpatient Visits
- 2016: 11,456
- 2017 (Projected): 12,911

Inpatient Consults
- 2016: 1000
- 2017 (Projected): 1200

Special procedures:
- Joint aspirations/injections
- Outpatient administration of cytotoxics and biologics
- Bedside ultrasound for diagnosis & treatment
Division of Rheumatology
Clinical & Basic Research

Last 2 years ~50 papers published

Research Interests:

• **SLE**: Pathogenesis, biomarkers, novel therapies, diagnostics, renal disease, cardiovascular disease
• **Rheumatoid arthritis**: New therapies
• **Osteoarthritis**: Pathogenesis of cartilage disease
• **Amyloidosis**
• **Thyroiditis and rheumatic diseases**
• **Health disparities in rheumatology**

**Einstein Lupus Cohort:**

- Database and biobank of >400 lupus patients → resource for collaborations

**NIH Accelerating Medicines Partnership Network:**

- Einstein/Montefiore is one of only two centers nationally funded by this network utilizing cutting edge techniques to define disease-specific pathways through gene expression and signaling analyses in affected organs
## Division of Rheumatology Faculty Achievements

<table>
<thead>
<tr>
<th>Promotions</th>
<th>Leadership Appointments</th>
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<tbody>
<tr>
<td>Dr. Irene Blanco - Associate Professor</td>
<td>Dr. Irene Blanco - Associate Dean for Diversity Enhancement</td>
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<tr>
<td>Dr. Clement Tagoe - Professor</td>
<td>Dr. Liz Kitsis - Vice Chair for Faculty Affairs &amp; Professionalism</td>
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<td>Dr. Porcelli - Chair of Microbiology &amp; Immunology</td>
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<table>
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<tr>
<th>Awards</th>
<th>Grants</th>
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<tr>
<td>Dr. Clement Tagoe - Inaugural Humanism Award from the DOM</td>
<td>Dr. Anna Broder - K23 (NIAMS)</td>
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<tr>
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<td>Dr. Irene Blanco - Clinician Scholar Award from American College of Rheumatology</td>
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Moving Forward

“Life is like riding a bicycle. To keep your balance you must keep moving.”

- *Albert Einstein*
Strategic Plan

Roadmap for the Future

Clinical
Research
Education
Diversity
Recruitment & Retention

Values

Social Justice
Innovation
Diversity
Integrity
Teamwork

Excellence
Transparency
Community

Accountability

Collaboration
Our Mission: Building Upon Our Bronx Roots

Our mission is 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.