Montefiore/Einstein Infectious Diseases Fellowship Overview

2020-2021
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To heal, to teach, to discover and to advance the health of the communities we serve.

Montefiore builds upon our rich history of medical innovation and community service to improve the lives of those in our care. Our mission is exemplified in our exceptional, compassionate care and dedication to improve the well-being of those we serve.
What Makes Montefiore/Einstein Distinct?

- **2018 Leader in LGBTQ Healthcare Equality** by the Human Rights Campaign (HRC)
- **Pioneer accountable care organization** since 2012
- Major commitment to addressing healthcare disparities by serving uninsured and underinsured patients
- **Multiple Centers of Excellence**: Orthopedics, Stroke, Cancer Center, Children’s Hospital, Cardiology, Center for Transplantation, etc.
- Selected for the **White House’s inaugural Precision Medicine Initiative Summit** in 2016
Training Experience at Montefiore

✓ All opportunities of a **large, urban academic institution**:  
  ✓ **Diverse patients and pathology** afforded by quaternary care  
  ✓ Vast basic science and clinical **research opportunities**

✓ Teaching faculty who will **groom and mentor** you into a thoughtful, well-trained ID specialist and patient advocate

• **Highly supportive** and collegial training atmosphere
• Incredibly grateful and loving patients
• **Fully integrated inpatient/outpatient EMR (EPIC)**
• **Front row seat to healthcare disparities in medicine**
The Bronx

- 3rd most densely populated county in the US
- Population: ~1.4 million in 2010
  > 9th most populous city
  (greater than SF, Denver, DC, or Boston)
Diversity

- The U.S. census considers the Bronx to be the most diverse area in the country!
  - Census estimates:
    - 45% white, 43% Black or AA, 4% Asian
    - 54.6% of Hispanic or Latino origin of any race
    - There is an 89.7% chance that any two residents, chosen at random, would be of different race or ethnicity
Other than Montefiore, What is the Bronx Known For?

- The NY Botanical Gardens
- Bronx Zoo
- Van Cortlandt Park
- Yankee Stadium
- Arthur Ave (the “real” Little Italy)
- Pop culture: Jennifer Lopez, Tracy Morgan, Regis Philbin, Carl Reiner
✓ “Committee” approach
  • Division Chief, Dr. Liise-anne Pirofski
  • Priya Nori (PD, ASP director)
  • Ira Leviton (Emeritus PD)
  • Rachel Bartash (Assoc. PD)
  • Program Coordinator – Ana Capellan
  • Research advisory committee: Dr. Vagish Hemmige, Ms. Kelsie Cowman
  • Program advisors: faculty who trained at our program and others (MGH, Yale, NYU, Columbia, etc.) who help with innovations/upgrades
  • > 36 faculty members in all
Yearly Schedules

✓ For 2-year programs, ACGME requires 10 months of clinical service and weekly HIV continuity clinic (over 2 years)

1. **1st year**: front loaded with clinical rotations in 2-4 week blocks
   ➢ Cap of 4 new consults/day spread among fellow and rotators

2. **2-week laboratory blocks, vacations (2x), research electives** are dispersed evenly throughout the year to mitigate fatigue/burnout

3. **2nd year dedicated training tracks** – ASP/IC, Transplant, HIV/HCV/PreP &STI, or design your own track
   • *Average 6 weeks of service in 2nd year* (in 2-week blocks), remaining time is for research, QI, curriculum development, electives

✓ **3rd year for eligible fellows**: research training for basic science or clinical research careers under the mentorship of an NIH- funded investigator
Teaching Service Rotations
(each campus offers a unique training experience)

- **Moses**
  - Gen ID: HIV, MICU, SICU, ER, med/surg units
  - Compromised host:
    - Abdominal (kidney, liver, pancreas)
    - Thoracic (heart, lung)
    - Oncology/BMT

- **Weiler**
  - General ID (including HIV/OIs), high-risk OB, cardiac surgery, ECMO

- **Wakefield** – general ID (including HIV), MDROs, Ortho-ID, high-risk OB, MedEd

- **Peds-ID:** 2nd half of 1st year
All first- and second-year fellows have once-weekly HIV continuity clinic at either Montefiore’s Center for Positive Living/I.D. Clinic or Jacobi’s Adult Comprehensive Services Clinic

- Weekly morning HIV didactics by clinic directors
- Fellows follow their own HIV patient panel

HIV/HCV/PEP track fellows can also rotate at the Oval Center, a community-based specialty clinic for providing prevention, screening, treatment and sexual healthcare services
Elective Outpatient Rotations

- **Micro lab** (Moses): 2-4 week blocks learning principles of microbiology, mycology and virology
  > Monthly “plate rounds” organized by 2nd year fellows and micro fellow
  > ”Case of the month” posted online and on twitter @MontefioreID
- **Parasitology clinic** (Jacobi): 1-week blocks
  > World-renowned trop med expert, Dr. Chris Coyle
- 2nd year additional outpatient electives: OPAT, transplant clinic, congenital HIV clinic
- **Einstein Global Health Center**, co-directed by Dr. Louis Weiss, MD PhD (ID faculty)
  > Potential sites: Malawi, South Africa, Ethiopia, So. America
Dual Training Tracks

• **ID-Critical Care:** additional year of ICU training at Montefiore after completing 2 years of ID
  > Complete ICU electives in 2\textsuperscript{nd} year prior to interview for Montefiore CCM program
  > Research project spanning both areas (ICU antibiogram, ICU antibiotic use and resistance, etc.)
  > Board eligible in both specialties
  > **Recent fellow:** Polina Trachuk, MD – new faculty member at NYU

• **Adult & Pediatric ID:**
  > Recent fellow: Meg Aldrich – med/peds resident, completed extra peds-ID training → director of CHAM Infection Control
Didactics, Conferences & Professional Development

- **1st year: ID fundamentals**
  - Core lecture series: weekly 50-minute lectures, high yield for ABIM ID exam
  - Weekly grand rounds case-presentations w/ lit review (1-2 per month)
  - **New:** Physician-scientist rounds (Wakefield) or Transplant-ID case conference each Friday (Moses) – informal case presentation, no prep required
- Visiting professor research presentations at ID grand rounds (fellows & faculty)
- **2nd year: professional development**
  - Monthly board review course with ABIM-style questions
  - Critical appraisal of literature
  - How to write & publish a case-report
  - QI and Research methods & IRB navigation
  - How to prep your CV and apply for jobs
• Social Media is a great educational resource for ID (#IDtwitter)
• 2 senior ID fellows manage educational content on @MontefioreID, including “Micro Mondays”
• @EricMeyerowitz hosts amazing tweetorials and has a COVID youtube channel https://www.youtube.com/watch?v=PdofJOp_WAU
Clinical Research Training Program (CRTP)

- Master of Science (M.S.) in Clinical Research Methods
- Intensive two-year program is designed for those pursuing a career in investigator-initiated, hypothesis-driven clinical research.
  > Starts in year 2 of ID fellowship but application due by March of year 1
- The comprehensive program combines didactic learning and coursework with a mentored research experience.
- Recent CRTP scholars: Greg Weston (GN resistance), Dr. Ashley Ceniceros (infections in IVDU)
- [http://www.einstein.yu.edu/centers/ictr/education/clinical-research-training-program/](http://www.einstein.yu.edu/centers/ictr/education/clinical-research-training-program/)
Where Fellows Live

[Map of New York City highlighting areas where fellows live]
Salaries

• Salaries effective 1/2020:
  > PGY-4: $77,000
  > PGY-5: $80,000
  > PGY-6: $83,000
  > (Used to be PGY4 = 68K; PGY5-6 = 70 – 71.9K)
• $500 stipend for educational expenses through the DOM
• Additional funds within training program for posters, online courses, etc.
2nd Year Fellow “Coaches”

- 2nd year fellow will be your “clinical coach” for the first 2 weeks, helping with EPIC, structuring your day, and learning to be an ID consultant, presenting at case conferences
- 2nd years cover first weekend and about ~2 additional weekend calls per month
- 2nd year fellows make the monthly call schedules (your preferences are almost always obliged) and provide IM boards, sick-call, and in-service coverage
- Frequently organize social outings, check on you throughout the year, organize group chats and trickle-down board review material
Night & Weekend Calls

- **Nights** (5pm to 8am):
  - *Totally remote*
  - *Attending is on call with you for back up* (e.g. malaria, septic shock, nec fasc, crypt meningitis, etc.)
  - Antibiotic approvals (until 10pm) and management questions

- **Weekends**: 4 consult cap, new patients until 2pm (attendings take all “non-teaching”/AO patients)
  - Physically cover only 1 site per call
  - 1 “golden weekend” per month for 1st years
  - 2nd years cover a few weekend days per month
Scholarly Activity

✓ ACGME requirement for ALL fellows
✓ Mentor selected by winter/spring of 1st year
✓ Expected to submit IRB, conduct a research project, meet benchmarks set by you and mentor
✓ Ultimate goal: present at a national and regional meeting, publish your research
✓ Faculty mentors: https://www.einstein.yu.edu/departments/medicine/divisions/infectious-diseases/education/infectious-diseases-fellowship/faculty.aspx
Burnout/Wellness

- We take burnout and fellow wellness very seriously and intervene early!
- https://www.mymontebenefits.com/to-your-health/supportive-wellness-services
- Employee Assistance Program for free counseling services https://www.mymontebenefits.com/to-your-health/eap
- SMART-R wellness curriculum
So...What was COVID-19 like at Montefiore/Einstein

Case, Hospitalization and Death Rates

These charts show case, hospitalization and death rates by group since March.

Our goal: Test, Test, Test.

New York tested close to 100,000 people yesterday.

And our infection rate stayed below 1% for the 21st day in a row.

Keep it up, New York.
#NewYorkTough
Opinion

Jerry Seinfeld: So You Think New York Is ‘Dead’

(It’s not.)
COVID-19 at Montefiore

- At peak >200 ICU cases and >1200 admitted
  > Over 5000 live discharges to date!!
- Massive expansive of inpatient and ICU units
- IM faculty deployed to inpatient units
  > Including Dr. Tomer Chair of Medicine
- Our fellows/faculty were not deployed to ICUs, ER, or COVID units because their expertise as ID was felt to be too valuable
  - Helped screen for clinical trials, manage PCR, serologic testing, complications such as bacterial and fungal co-infections
  - Helped with infection control and stewardship issues
  - At the end of May as surge units were closing, few fellows volunteered for ICU shifts (1-3)
COVID-19 Impact on our Fellows

✓ All inpatient consults converted to e-consults
✓ All outpatient visits converted to televisits
  • Development of internal televideo app, MontefioreF1RST
✓ Multiple COVID research projects by fellows:
  • PCT & bacterial infection; immunomodulators & COVID
✓ Potential opportunities for clinical trial participation
✓ Like all HCW, ID experienced fatigue, burnout, isolation
However, moments like these were priceless…

#Whitecoats4Blacklives
COVID-19 raised the profile of our division and hospital profoundly

- **Remdesivir** clinical trial (ACTT) – Dr. Barry Zingman & team
- **Convalescent plasma** clinical trial – Dr. Liise-anne Pirofski & team
- **Steroid trials and NIH guideline committee**: Dr. Marla Keller
- Multiple COVID-related publications from the division
- Profiles of our frontline workers in the NYT, CBS
✓ Montefiore/Einstein is the most diverse, comprehensive training experience imaginable
• COVID-19 elevated our profile in terms of clinical trials, research, pandemic leadership
• Our fellows receive high-level mentoring and place very well in the careers of their choice
  ➢ Transplant, ASP/IC, HIV/HCV, public health, NIH-investigators, etc.
• High retention of fellows → faculty
➢ Choose with your heart & your mind
✓ Regardless of where you train, ID fellowship will be your most profound learning/growth period to date
  ➢ You will understand quickly #WhyID
Former M/E Fellows
Current Institutional & National Leaders

➢ IDSA, NIH, SHEA, ASTMH, etc.

Trained at BID