2025-2026

Neurology Training at The Mount Sinai Hospital

Icahn School of Medicine at Mount Sinai

“Choosing Mount Sinai

as my residency program was a very easy decision to make. It was my first interview of the season, and I have been completely enamored with the program since that day. Throughout my interview day, I was told by several faculty that everyone at Sinai has the opportunity to carve their own path. Though I didn’t know what my path was at that time, I trusted that Sinai would mold me into a compassionate, caring, and inquisitive physician and educator in a nurturing and stimulating environment. What makes Sinai unique to me is the camaraderie among hospital faculty and staff. I know I have made lifelong friends in my co-residents.”

- Destiny Marquez, MD, Class of 2024, Mount Sinai Neurocritical Care Fellow, Class of 2026

Contacts

Barbara Vickrey, MD, MPH
System Chair, Department of Neurology
barbara.vickrey@mssm.edu

Michelle Kaku, MD
Vice Chair of Education
michelle.kaku@mssm.edu

Michelle Fabian, MD
Residency Program Director
michelle.fabian@mssm.edu

Faye Francisco
Education Program Manager, Department of Neurology
faye.francisco@mssm.edu
646-634-8080

Follow us on X:
@MSHNeurology
Follow us on Instagram:
@MSH_neurology_residency

2025-2026

Neurology Training at The Mount Sinai Hospital

“I’ll always remember

my interview at Mount Sinai and the first time I walked into Yahr Library. By that point, I had already been to several interviews, and I felt like I knew what to expect. I vividly remember feeling like this program was different. Interacting with the residents, it became clear that, despite the inherently challenging nature of medical training, they all seemed genuinely happy to be here, felt supported by the faculty, and were deeply invested in the program. I can say that Mount Sinai has lived up to all of my expectations and was one of the best decisions I’ve ever made.”

– David Daniel, MD, Class of 2024
Chief Resident

Top Rankings for Mount Sinai for National Institutes of Health Funding among U.S. Medical Schools

No. 2 Neurosciences
$35.9 million for Basic Science

No. 3 Psychiatry
$68.1 million for Clinical Science

No. 35 Neurology
$8.1 million for Clinical Science

Data compiled and released in September 2024 by Blue Ridge Institute for Medical Research. These figures represent awards received by the Icahn School of Medicine at Mount Sinai during the National Institutes of Health 2024 fiscal year.

Contents

Message from the Residency Program Directors

Michelle Fabian, MD
Director
MSH Neurology Residency Program

Laura Stein, MD, MPH
Associate Director
MSH Neurology Residency Program

Vanessa Tiongson, MD
Associate Program Director for Continuity Care Education

Welcome to the Mount Sinai Department of Neurology!

We hope this brochure gives you a glimpse of the rich learning environment, cutting-edge research, and world-class patient care that make the Mount Sinai Neurology Residency an exceptional experience for each resident who graduates from our program.

We share a deep commitment to providing an extraordinary educational experience to every resident in our program. We know that every one of our residents has the potential to make meaningful, unique contributions to the field; it is our responsibility to provide the support and guidance that will enable them to reach their highest aspirations.

From the first day, we consider our residents to be colleagues. Each resident plays a vital role as a clinician, teacher, and collaborator. We also consider every resident as an accomplished physician in the context of a full, balanced life; resident wellness is a chief focus of our program.

We believe mentorship is crucial during residency, and we have a well-established mentoring program. Many of the faculty with whom our residents work also completed their training here and have built their careers in our department. At the same time, our diverse department prides itself on recruiting top academic, clinical, and research faculty from around the country and world whose expertise powerfully enhances the education of our residents. We expect our residents' interests to expand or evolve as they progress through the program; thus, their mentorship team needs to evolve, as well. We work to identify additional mentors to support each resident's chosen path throughout.

We expect all residents to participate in some form of research during their training. For those planning research-focused careers, the Friedman Brain Institute provides unsurpassed opportunities for academic engagement. A myriad of research opportunities also exists in other areas such as education scholarship, quality improvement, inclusive excellence, global health and resident wellness. Our residents are highly productive, and they regularly present and publish their impactful work.

We are looking for residents who demonstrate professionalism, intellectual inquisitiveness, and a real passion for neurology. Most important, we are seeking those who desire to give the very best in evidence-based, compassionate care to every patient they encounter.

Thank you for your interest in our program.

Michelle Fabian, MD
Director
MSH Neurology Residency Program

Laura Stein, MD, MPH
Associate Director
MSH Neurology Residency Program

Vanessa Tiongson, MD
Associate Program Director for
Continuity Care Education

Felipe Ayala, MD
Associate Program Director
Elmhurst Hospital

Noam Harel, MD, PhD
Associate Program Director for
Residency Research

Noam Harel, MD, PhD
Associate Program Director for
Residency Research

Felipe Ayala, MD
Associate Program Director
Elmhurst Hospital

Faye Francisco *(center)*
Residency Program Manager

Mary Swai *(left)*
Residency Program Manager

Geraldine Cera *(right)*
Fellowship Program Manager

Welcome from the Chair and Vice Chair

Barbara G. Vickrey, MD, MPH
System Chair
Department of Neurology
Henry P. and Georgette Goldschmidt Professor of Neurology
Icahn School of Medicine at Mount Sinai

Michelle Kaku, MD
Vice Chair of Education
Department of Neurology

On behalf of our faculty, staff, and entire team, we offer you a warm and sincere welcome to learn about the Mount Sinai Hospital Neurology Residency Program! We are delighted to share with you our accomplishments and vision for building a strong, diverse, and comprehensive academic neurology department.

Mount Sinai is unique and has an enormous advantage in that all of the education resources of the institution are focused exclusively on our School of Medicine and our Graduate School of Biomedical Sciences. Furthermore, these schools and all of the hospitals report to one Chief Executive Officer, himself a nationally recognized leader in academic medicine and health policy. Thus, our culture has the ideal blend of a deep belief in the value of discovery and translational research, while simultaneously creating a path to thrive in an ever-changing health care environment. Our foundational missions include training the next generation of clinicians, clinician-educators, clinician-investigators, and future leaders in medicine, as well as providing high-quality patient care to all our New York City communities, including those that are under-resourced. This mission has been ingrained from the founding of the original hospital – the Jews' Hospital – as a charitable institution, more than 170 years ago.

Our residency benefits from the resources of the Icahn School of Medicine at Mount Sinai, and three teaching hospitals: The Mount Sinai Hospital, Elmhurst, and the Bronx VA Hospital. Neurology faculty at all sites are committed to contributing to the training, mentorship and wellness of our residents. With substantial investment and support from the School and Health System, the Department has grown dramatically in education, research, and clinical care in the last decade. We currently have 40 residents, and as of 2022 are a categorical program. In the last decade, we have expanded our array of fellowship training programs to 11 different fellowship programs, have had year-over-year growth in sponsored research funding to over $45 million dollars in 2024, and recruited over

100 new faculty, who sought to join our thriving, growing department and who have been recruited both internally from our talented Mount Sinai graduates, and from major academic institutions around the U.S.

As examples, among the new areas in which we have built programs are neuro-informatics including application of machine learning and AI methods, neuro-palliative medicine, quality and safety research, outcomes research and neuro-infectious diseases. We continue to recruit talented and well-trained faculty who hold the highest standards of professionalism and high-quality scholarship, and who put the patient at the center of all that we do. This is reflected in our national reputation, with hospitals within the System consistently appearing on U.S. News & World Report's 'Best Hospitals' list and being named to its Honor Roll.

Please know that all of us are genuinely and deeply committed to providing a nurturing residency, both academically and emotionally. Our goal is to provide the environment and mentorship for you to achieve your potential and your career aspirations.

Barbara G. Vickrey, MD, MPH
System Chair

Michelle Kaku, MD
Vice Chair of Education

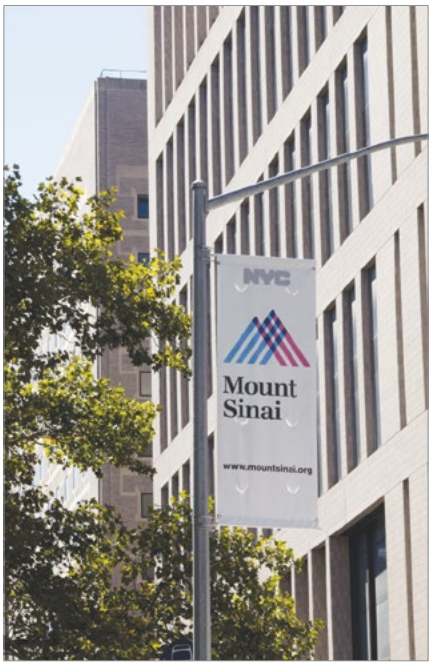
The Department of Neurology

More than 100 years of service

Founded as a charitable hospital in 1855, with the mission to provide medical care for indigent Jews in New York City, the Mount Sinai Health System is now the largest private hospital system in New York City. The oldest Department of Neurology in New York City, we opened our inpatient service in 1900.

For well over a century, Department faculty have made significant contributions to medical knowledge through clinical and scientific research, trained many generations of neurologists, and held prominent positions on the national and international neurological stage.

With interdisciplinary centers focused on the most common and most complex neurological disorders, the Department provides patients with a unique blend of personalized care powered by our groundbreaking research teams and technology. This integrated approach is instrumental in our pursuit of improving outcomes in the treatment of Parkinson's disease, epilepsy, multiple sclerosis, stroke, Alzheimer's disease, and many other neurological disorders, referred from within our expansive health system, as well as from throughout the world.



Icahn School of Medicine at Mount Sinai
One Gustave L. Levy Place, Box 1137
Annenberg Building, Neurology
New York, NY 10029

choices for sub specialization after residency, as well as in-depth research opportunities funded by the National Institutes of Health. Mount Sinai also provides opportunities for advanced degrees in fields including master's degrees in Epidemiology, Biomedical Informatics, and Clinical Research, among others.

The Department is at the nexus of an institution wide neuroscience and neurological research effort at Mount Sinai, and it has achieved an enormous growth in research funding over the past six years. In 2024, the Department of Neurology at the Icahn School of Medicine received $8.1 million in National Institutes of Health (NIH) funding, ranking 35th among Departments of Neurology in the U.S. in NIH funding. Our total sponsored research funding from all sources exceeded $45 million.

A study of 125 U.S. neurology residency programs found that Mount Sinai had produced the third-highest number of graduates holding academic neurology faculty positions.

(Campbell, et al, Archives of Neurology, 2011;68:999-1004.)

The Department offers a variety of educational programs that provide a broad foundation in neuroscience and the clinical skills to diagnose and treat the full spectrum of neurological diseases. The Health System's span of facilities across Manhattan, Queens, and Brooklyn affords opportunities for elective rotations in diverse populations and settings. Multiple fellowship opportunities enable many

Department of Neurology Faculty – Mount Sinai Health System, 2025

Full- and part-time Career Faculty (all campuses) **141**

Affiliated Faculty **15**

Clinical Fellows **22**

Post-doctoral fellows **21**

MSH Neurology Residents **40**

2024 MSH Inpatient Encounters **14,698**

2024 MSH Outpatient Visits **43,080**

Resident Profile: A Clinical Interest in Stroke, a Passion for Medical Education, & Support From Mentors

How did Chief Neurology Resident Emma Loebel, MD, excel at Mount Sinai? With hands-on mentorship and support from faculty, she pursued her clinical interest in stroke while developing a passion for medical education.

"Our program highly emphasizes and encourages near-peer teaching and developing clinician-educators, and it ensures we have the support/mentorship, expertise, and opportunities to develop curriculum, lead teaching sessions, and serve as mentors to medical students and co-residents," says Dr. Loebel. "I am in the medical education track of our residency, and our leaders, and my mentor, Dr. Laura Stein, have opened up a world of opportunity for me, locally, regionally, and within the national neurology societies, such as the American Academy of Neurology."

Laura K. Stein, MD, MPH, Associate Professor of Neurology, notes: "It is hard to convey just how much work Dr. Loebel has put in to educating others that is so far beyond what one would ever expect from a resident or even junior faculty member. She has developed, assessed, and published multiple curricula for students and residents and is leading a national study of stroke education among internal medicine program directors and practicing physicians. Dr. Loebel is truly a role model not just for her peers and students, but faculty as well."

"Dr. Loebel possesses all the qualities we seek in a Neurology resident," says Michelle T. Fabian, MD, Associate Professor of Neurology and Director of The Mount Sinai Hospital Neurology Residency Program. "She excels as a clinician, educator, and scholar. I know she will continue to make a meaningful impact in neurology education and vascular neurology throughout her career." **Read more about Dr. Loebel's experiences in the following Q&A.**

What are some of the strongest features of Mount Sinai's residency program?

We train at three very distinct health care systems across New York City, which allows us to see a diverse patient population, practice within different resource settings, and understand the inner workings of multiple health care systems.

The Mount Sinai Hospital is a leading academic tertiary care center with top subspecialty care. NYC Health + Hospitals/Elmhurst is a public city hospital serving one of the most diverse zip codes in the nation, known for thrombectomy and other neurology care. At the James J. Peters VA Medical Center, we train in a smaller government system. Across these sites, we learn adaptability, resilience, and creativity in providing expert care.

How did your mentors help you succeed?

Our neurology faculty go above and beyond to ensure we meet milestones and feel accomplished as physicians in training, acknowledging both our personal and professional lives. Dr. Stein has role modeled excellence in clinical care, research, and education. With her support, I achieved several personal milestones during residency—such as getting married, running half marathons, and traveling. Dr. Stein always reminds me: life doesn't end when you start residency, it starts.

Our program director, Dr. Fabian, also played a significant role. She makes each of us feel important and empowered, always working to improve our service-to-education balance, listening and advocating, and helping residents achieve their goals.

Dr. Loebel graduated from the Mount Sinai Neurology Residency Program in June 2025. After residency, she is pursuing a vascular neurology fellowship at NYU Langone.

Scan the QR code to read Dr. Loebel's full Resident Profile and learn more about her journey at Mount Sinai. This profile was published in the 2025 Mount Sinai Specialty Report.

Neurology Residency Program at Mount Sinai Hospital

Our Residency Program is designed to provide comprehensive neuroscience education and clinical training. As a result, upon graduation, our residents can treat the full spectrum of neurologic diseases. A warm rapport among residents, strong commitment of faculty to resident learning, diversity of our patient population, and emphasis on outstanding patient care lie at the heart of our program. We work with each resident individually to develop their skills across the full range of ACGME core competencies, including professionalism and interpersonal communication, and we support each resident as they develop maturity, responsibility, and empathy critical to the modern practice of neurology.

Program Highlights:

- 10 Categorical positions per year
- A night float system with no 24-hour calls
- An inpatient/outpatient Block Schedule format
- More than 6 months of electives across years 2-4
- 4 wellness days and 4 weeks of vacation time each year

Our PGY-1 Residents spend most of their year in our highly regarded Department of Medicine to fulfill ACGME requirements. In addition, they rotate for 4 weeks on our neurology service. This rotation offers our interns the opportunity to review the fundamentals of the neurological examination and to connect with senior neurology colleagues. 6 weeks of elective time is also available during the PGY-1 year.

Resident Rotations by Year

PGY-1

Rotation	Number of Weeks
MSH General Medicine	4
MSH Neuro Floor Service	4
MSH Specialty Medicine	6
MSH Night Medicine	8
MSH Medical Intensive Care Unit	2
Elmhurst Inpatient Floor Service	6
Bronx VA Medicine	6
Bronx VA Night Medicine	4
Elective	8
Vacation	4

Electives: Behavioral Neurology, Epilepsy, Headache, Movement Disorders, HIV Neurology, Multiple Sclerosis, Neurocritical Care, Neuro-Interventional Radiology, Neuromuscular Disease, Neuroradiology, Neuro-Oncology and Neuro Otology

PGY-2

Rotation	Number of Weeks
MSH Inpatient Stroke Service	4
MSH Inpatient Floor Service	2
MSH Inpatient Consult Service	10
MSH Night Float	6
MSH Neurosciences ICU	4
MSH Neuro-Oncololgy	2
MSH Epilepsy	2
MSH EEG Clinic	2
Bronx VA	4
Elective + MSH Continuity Clinic	8
MS + MSH Continuity Clinic	2
Elective	2
Vacation	4

PGY-3

Rotation	Number of Weeks
MSH ER Consult	4
MSH Peds Neuro	6
MSH Neuromuscular	2
Elmhurst Stroke	6
Elmhurst General Neurology	6
Elmhurst Continuity Clinic	6
Elmhurst Night Float	6
Bronx VA	6
Elective + MSH Continuity Clinic	4
Elective	2
Vacation	4

PGY-4

Rotation	Number of Weeks
MSH Outpatient Stroke Service	6
MSH Inpatient Floor Service	4
MSH Consult Service	6
MSH Epilepsy	2
MSH Night Float	2
MSH Psychiatry	4
MSH Pediatric Neurology	6
MSH Neuromuscular	2
Elective + MSH Continuity Clinic	10
Elective	6
Vacation	4

*Schedule subject to change based on program needs

Our schedule is designed so that our PGY2-PGY4 Residents spend 4 to 6 weeks completing successive 2-week inpatient rotations followed by 2 weeks on an outpatient rotation or vacation block. We have found that this block schedule system enables our residents to be more fully present in their roles versus the traditional approach of combining inpatient and outpatient responsibilities in each rotation. During the outpatient blocks, residents work in their general neurology clinic and participate in required rotations such as neuroimmunology, movement disorders, cognitive disorders, neuromuscular and epilipsy and also have an extensive amount of individualized elective time. We offer clinical electives in all our neurological subspecialties. Additionally, there is an option to devote elective time to research.

PGY- 2 residents rotate through all the inpatient neurology services at The Mount Sinai Hospital, and work on the consultation service at the Bronx VA. There is an in-house backup from PGY-4 residents 24 hours per day from July through November, and Senior Residents are available on call 24/7 thereafter. PGY-3 Residents take on team leadership roles on the Elmhurst inpatient Stroke and General Neurology services. PGY-4 residents assume a leadership role at The Mount Sinai Hospital, working as the Senior Resident on the inpatient neurology teams.

We take duty hours seriously and prioritize resident wellness. Our schedules comply with the ACGME work-hours limitations and New York State Bell Commission in rules limiting work hours.

What MSH Neurology Residents Can Expect to Receive

- Guaranteed, affordable hospital housing options available near to the hospital. For more details, please visit the web page: https://icahn.mssm.edu/education/residencies-fellowships/housing
- Competitive salary and excellent benefit package
- Lunch is provided during noon conference at all training sites
- One Wellness Day each quarter
- Travel funds for presenting at professional meetings
- Opportunity to moonlight
- Neurology Resident Handbook App
- Convenient Shuttle between hospitals during normal working hours
- After-hours transportation reimbursement for Uber services between hospitals
- Discounts on activities and events through the Mount Sinai Health System Recreation office, including fitness memberships, Broadway show tickets, sporting event tickets, and city attractions

Mentor Program

Each resident is paired with a faculty member who will be available as a mentor. The mentor's responsibility is to act as a guide for career development, as a resource for research and elective opportunities, and as an advocate for issues that arise both inside and outside of the hospital. The goal is for each resident to develop a strong personal and professional connection with a dedicated faculty member who will support them and guide them through the program. There are also designated faculty members representing a broad range of neurological and neuroscience subspecialties to help individual residents with career interests, fellowship applications, and research projects. In addition, all residents meet with the program director semi-annually to discuss short- and long-term goals and to review personal accomplishments.

Inclusive Excellence

The Mount Sinai Hospital Neurology Residency Program is dedicated to the recruitment of trainees from a variety of backgrounds that will enhance the culture of our program and to fostering a supportive environment for our trainees to thrive throughout their training.

Categorical

We are pleased to offer ten categorical track positions for each year in The Mount Sinai Hospital Neurology Residency Program. A resident who matches into a Categorical position will spend all four (4) years at Mount Sinai, including a PGY-1 year in the Department of Medicine.

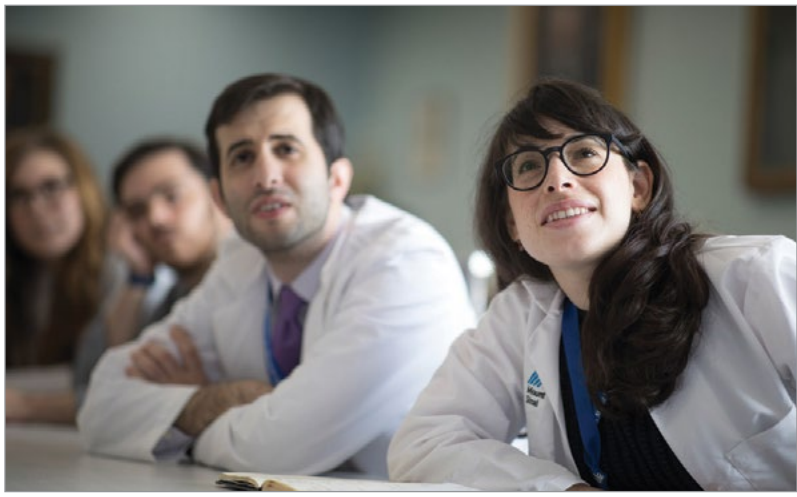
Residency Program Curriculum and Conferences

Neurology Residency Curriculum and Lecture Series

Our dynamic, learner-focused curriculum is clinically relevant, interactive and enhanced by the incomparable expertise of our world-renowned faculty. The curriculum has been comprehensively curated to maximize resident engagement and learning. Core conferences are protected from clinical duties. They take place every weekday during the noon hour (lunch provided).

In the summer, the curriculum begins with the basics of neuroanatomy, introductions to core clinical topics, and management of neurological emergencies. Starting in September, the focus shifts to more complicated neurological conditions and management, integrated with advanced pathophysiology, neuroradiology and neuroanatomy.

Finally, the spring course places a deeper emphasis on research, with an eye toward emerging and future trends in the field. Throughout the year, sessions are also dedicated to health disparities, case presentations, preparation for in-service examinations, quality improvement initiatives, "resident as teacher" modules, and resident wellness. All conferences are broadcast to our affiliated sites (Elmhurst and the Bronx VA), and then stored in a digital library accessible via shared media storage.



" The curriculum is meant to deliver and present the principles of neurology in an informative and enjoyable way, and allow the residents to take a proactive role in their education, as well as in their professional development."

- **Anna Pace, MD,** Chief Resident for Curriculum and Academic Affairs, 2016-2017, Currently, Director of Headache Medicine Fellowship Program and Assistant Professor of Neurology, ISMMS

Curriculum Topics

- Neuroanatomy
- Movement Disorders
- Neuromuscular
- Epilepsy
- Headache
- Critical Care Neurology
- Pediatric Neurology
- Vascular Neurology
- Behavioral Neurology
- Neuro-Immunology
- Neuro-Oncology
- CNS infections
- Neuro-Otology
- Neuro-Ophthalmology
- Neuropathology
- Neuroradiology
- Practice and Contemporary Issues
- Health Disparities and Structural Racism
- Wellness Strategies

The core curriculum is supplemented by a series of recurrent conferences and special sessions, all designed to deepen the residents' knowledge and ability as a clinician, while enhancing communication, collaboration, and wellness.

Conferences and Special Sessions

Morning Report:

Every morning from 8 to 9 am (excluding Friday Grand Rounds), one of our esteemed faculty members including Drs. Kaku, Fabian, Miller, Kreiger, Fara and Shin – guide presentation and analysis of new cases from the prior day, as well as "close -the-loop" follow-up of outcomes of cases discussed the prior week. Residents commonly cite our morning report as one of the most impactful educational experiences of the program. Our daily morning report sessions provide the perfect opportunity for our residents to strengthen their clinical reasoning and management skills, while also fostering a sense of community at the start of the day.

Division conferences:

These conferences are case-based. Cases are chosen either to highlight key neurological conditions, or to present unique, thought-provoking clinical scenarios. Bedside teaching is incorporated at times. These conferences include epilepsy case conference, neuro-ophthalmology case conference, neuromuscular rounds, stroke conference, movement disorders conference, stroke/ED conference and neurocritical care/ED conference.

Journal Club:

Led by Dr. Lublin, this monthly conference teaches residents how to critically read and review the literature. Articles are chosen to highlight different study methods as well as to review foundational studies in neurology.

Quality-improvement Conferences:

Monthly quality-assurance meetings and a quarterly outcomes conference ensure that residents are aware of ongoing quality initiatives and important topics in QI/QA.

Residents as Teachers:

These modules teach the principles of adult learning, teaching skills, needs assessment and gap analysis, and delivering feedback.

Community Health Rounds:

Held quarterly, these resident-led sessions explore how social determinants of health affect neurological care. Using case-based discussions, residents identify barriers to care and consider strategies to promote equity and improve access for patients in our community.

Resident Wellness Days and Wellness Conferences:

Our Wellness sessions encourage practices that may assist in preventing burnout and promote discussion about emotional reactions to patient care and outcomes. Other topics pertinent to wellness are covered including career exploration and financial planning. Additionally, sometimes the Wellness conference consists of pure fun, such as lunch and a cookie decorating session!

Senior Conference:

This conference is a new addition to our curricular offerings and has been very well received. At the beginning of the academic year, each PGY-4 Resident is asked to invite a faculty member to give an advanced level lecture on a particular topic. The conference offers each of our PGY-4 residents the opportunity to gain specific knowledge in an area of their choosing, and it has also proven to be enjoyable for the entire class to be able to spend time together.

" The neurology curriculum has evolved to reflect advances in knowledge and practice in the field. Recent enhancements to the curriculum, particularly in the subspecialty areas of neurointervention, neuro-oncology, neuro-otology, and neurocritical care, are exciting new learning opportunities. Throughout this growth in academics, the program has also made resident health and wellness a priority, which helps further a culture of learning, development, and teamwork."

- **Rory Abrams, MD,** Chief Resident for Curriculum and Academic Affairs, 2018-2019, Currently, Assistant Professor of Neurology, ISMMS

Clinics

Continuity Clinic Director: Vanessa Tiongson, MD

Each neurology resident has a continuity clinic consisting of a panel of new and established patients for whom they act as the primary neurologist. They are responsible for interviewing and examining each patient, deciding on the diagnostic and treatment plan, discussing and seeing every case with a clinic attending (who cosigns every note), arranging all necessary studies, consultations, and referrals, communicating the plan effectively to the patient (being sensitive to barriers of language and culture), writing prescriptions, and determining necessary neurological follow-up. The number of patients seen during each clinic session increases as the resident becomes more efficient, but ranges from two to five patients per session. The resident's continuity clinic sessions occur exclusively during the outpatient rotation block.

Lumbar Puncture Program Director: Sam Horng, MD, PhD

Outpatient clinic sessions dedicated to lumbar puncture procedures enable neurology residents to develop expertise in performing lumbar punctures in a controlled setting and under the direct supervision of a faculty attending. Residents rotate through the lumbar puncture program during their outpatient clinic blocks in the PGY-2 and PGY-3 years. The neurology resident performs the lumbar puncture, after obtaining consent and reviewing aftercare instructions with the patient. The faculty attending oversees and is present throughout the lumbar puncture procedure, providing educational tips and assisting the resident as needed. Skills in documentation of time-out and appropriate procedure note documentation are also obtained by residents during this experience.

Subspecialty Clinics

Our subspecialty teaching clinics offer residents unique, front-line experience in treating patients across a wide variety of subspecialty areas. The clinics are staffed by our expert subspecialty attendings and include multiple sclerosis and related disorders, movement disorders, headache, cognitive neurology, and neuro-ophthalmology clinic. Through these experiences, residents are provided a chance to collaborate with attendings to provide their patients with the best evidence-based treatments available, along with truly compassionate care.

Resident Opportunities and Engagement in Career Development and Leadership

Chief Resident Leadership Opportunities

Every year in early spring, the faculty and senior residents select Chief Residents for the upcoming year from the rising PGY4 class. The Chief Residents work closely with program leadership to ensure the program runs smoothly and address any areas in need of improvement. Additionally, they are responsible for fulfilling the five Chief Resident roles.

Chief Resident for Curriculum

Maintains and improves the academic program of the residency with an emphasis on the year-long neurology noon conference core curriculum series, which aims to advance residents' role as adult learners and educators.

Chief Resident for Grand Rounds

Identifies and arranges appropriate speakers for weekly Neurology Grand Rounds in collaboration with faculty on the Grand Rounds Committee and the Mount Sinai West/ Union Square Grand Rounds Chief Resident. Responsible for facilitating approximately 40 grand rounds programs each academic year, including 5 endowed lectures.

Chief Resident for Quality Outcomes

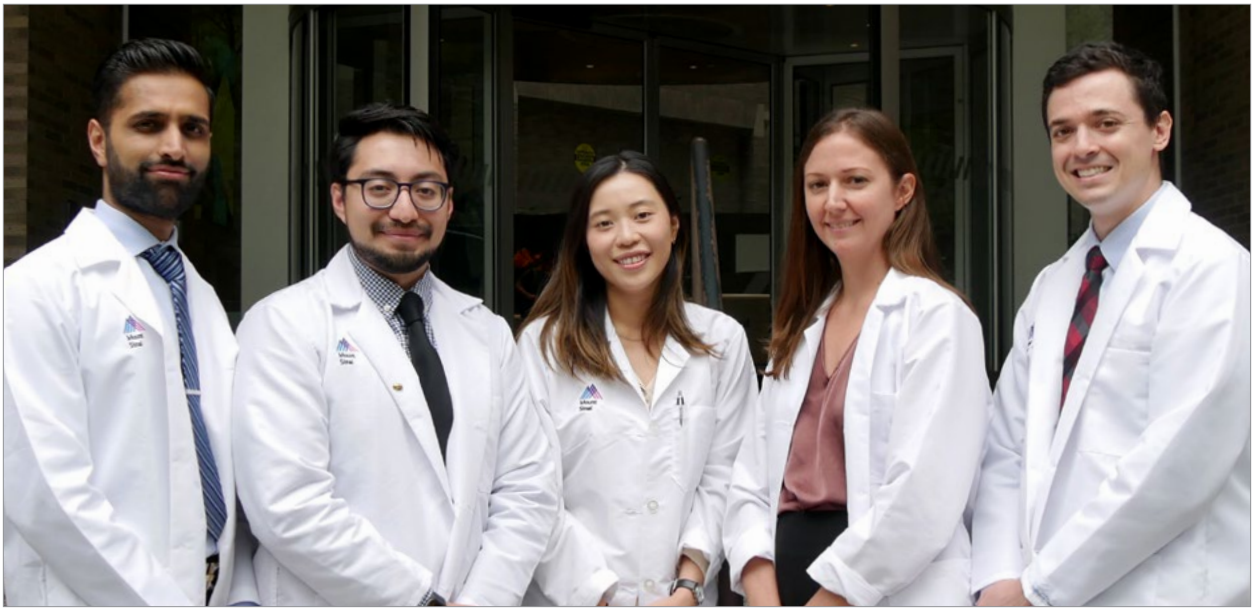
Serves as department representative for guiding and developing resident-led quality improvement/outcomes projects including methodology, feasibility assessments, outcome selection, and development of potential academic presentations of resident-led quality initiatives to foster resident scholarship. Manages Quality Assurance monthly meetings, collaborates with the faculty lead of Quality Assurance and the Program Director to select relevant cases for quarterly Outcomes Conferences.

Chief Resident for Scheduling

Strategically arranges and reformulates residency block rotation schedule for the academic year, including offsite rotations, call, vacations, wellness days and moonlighting. Direct liaison between scheduling staff, faculty, and residents regarding sick call coverage, and ongoing practice changes in the hospital system.

Chief Resident For Clinic

Schedules residents for General Neurology Clinic and Subspecialty Neurology Clinics. Works with the Clinic Director to ensure a smooth clinical workflow. Collaborates with program leadership to implement new subspecialty clinic rotations.



Chief Residents L to R: Sanket Aggarwal, MD, Erick Larios Bautista, MD, Davena Zhang, MD, Katelyn Gurley, MD, PhD, Yoni Goldstein, MD

"When I was interviewing for residency, I had just finished a difficult MD, PhD and was pregnant with my first child.

At Mount Sinai, I found faculty and residents committed to rigorous clinical training in Neurology, cutting edge research, as well as humanistic practice toward patients and each other, including a commitment to resident wellness. I am grateful to be part of this wonderful program!"

- Helaina Lehrer, MD, PhD, Class of 2021

Resident Wellness Initiatives

Over the past several years, under the leadership of our Residency Wellness Champion, Rory Abrams, MD, our residency has continually advanced its wellness program. Resident Wellness is of critical importance to us. Our wellness approach is two-fold; we aim to mitigate workplace factors that may erode wellness as well as to support our residents in their individual wellness needs. The formal curriculum centers around the Noon Conference Wellness Series. Included are a mix of didactic presentations on the current knowledge about physician burnout and interactive sessions utilizing proven techniques to improve wellness. Featured guests have included faculty experts on mindfulness training, physical fitness professionals who have led in classroom yoga sessions, and mental health professionals who lead open debriefing discussions on stressful situations.

Wellness Program Highlights:

- Readily available, individualized mental health services
- PEERS Program - A GME-sponsored, resident-run initiative to support resident well-being
- Facilitated Discussions led by a clinical-licensed Mount Sinai Social Worker
- Financial Education Lectures
- Career Panels
- Fellowship Preparation and Job Search Lecture - Held every Spring by Wellness Champion Dr. Abrams
- 4 Wellness Days Per Year
- Wellness events including monthly happy hour, team building exercises, Resident/Fellow and Faculty mixers, Halloween candy distribution, and holiday cookie decorating

"Choosing Mount Sinai was easy for me.

After completing a neurology sub-internship here during my fourth year of medical school, I was struck by the passionate camaraderie and fierce curiosity shared by the residents, as well as by the extraordinarily competent and compassionate program leadership. What spoke to me most, however, was the program's perfect balance of high clinical volume — these residents work hard, and really get to see everything — and robust culture of learning, to the point that Mount Sinai's neurology curriculum is a model for programs nationwide."

- Mark Barber, Class of 2021 alum, currently Assistant Professor of Neurology, ISMMS

Affiliate Training Site:
New York City Health and Hospitals/Elmhurst

Elmhurst Hospital in Queens, New York, is a high-volume, 545-bed public hospital within the New York City Health and Hospitals Corporation. The Hospital is a Primary Stroke Center, Thrombectomy Capable, a Level 1 Trauma Center, and a Cardiac Center in the Cardiovascular Patient Outcomes Research Team network.

Elmhurst serves an area of nearly 1 million people in the most ethnically diverse community in New York City and the most culturally diverse population in the U.S. Patients at Elmhurst come from across the globe, speaking a multitude of languages and dialects and bringing with them their particular beliefs and customs. The neurology rotations at Elmhurst provide a uniquely immersive education not just in managing complex neurological diseases, but in communicating effectively about these diseases with an incredibly diverse patient population.

Elmhurst hospital's mission is to provide care of the highest quality regardless of ability to pay. The neurology residents collaborate closely with a highly skilled team of social workers and case managers, all of whom are dedicated to helping the residents learn how to best and most effectively navigate the health care system for these underinsured, uninsured, and undocumented patients.

During their PGY-3 year, neurology residents rotate through the inpatient, consultation, and outpatient clinic services at Elmhurst for a total of 6 months, interspersed among their other rotations at Mount Sinai. During this time, they are exposed to extraordinary cultural diversity, as well as diversity of neurological disorders. These months are consistently considered by our residents to be among the most transformative and educational of their residency.

To assist in language translation, Elmhurst employs a team of in-house interpreters trained in medical interpretation. The hospital offers a contracted phone medical translation service in 140 languages, including Swahili, Tagalog, Hmong, Basque, and Navajo.

Accessibility

The Mount Sinai shuttle service provides convenient transportation to and from Elmhurst all day, Monday through Friday. The hospital is also accessible by subway. Uber services are provided to residents for after-hours commuting.

Teaching Faculty

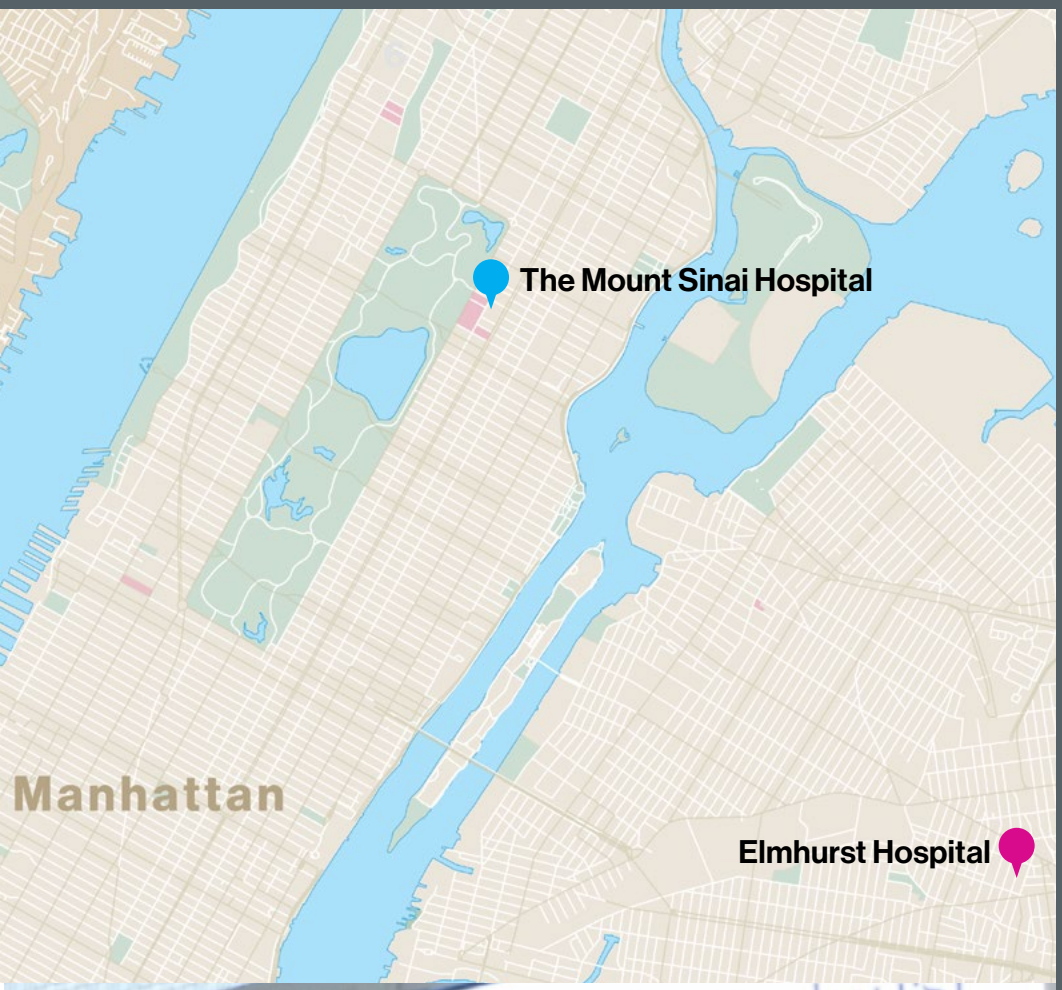
Director: Joseph Farraye, MD
Associate Professor of Neurology,
Mount Sinai Neurology Residency and Clinical Neurophysiology (EMG) Fellowship Alum

Felipe Ayala, MD
Associate Program Director, Elmhurst Hospital;
Assistant Professor of Neurology

Kia Gilani, MD
Assistant Professor of Neurology,
Clinical Neurophysiology/EEG Fellowship Alum

Kevin Gurcharran, MD
Assistant Professor
of Neurology and Pediatrics

Hazem Shoirah, MD
Associate Professor of Neurosurgery; Neurology; and Diagnostic, Molecular and Interventional Radiology,
Mount Sinai Neurology Residency and Endovascular Fellowship Alum



"Working at Elmhurst is an absolute privilege!

Serving with patients and families with such a diverse ethnic and medical background has made me a more well-rounded neurologist. Coming back to the community that raised me is the highlight of my residency experience.

– Sanket Aggarwal , MD
Class of 2026

Affiliate Training Site:
The Bronx VA Hospital

The James J. Peters VA Medical Center in the Bronx provides comprehensive inpatient and outpatient care to Veterans. The inpatient wards include acute medical/surgical units, a mental health inpatient service, nursing home, and spinal cord injury unit. The facility provides a comprehensive range of medical subspecialty and surgical services on an inpatient and outpatient basis. There is a 24-hour emergency department, and the Bronx VA is designated as a VA Primary Stroke Center. The neurology service consults on patients in all parts of the medical center. The clinic is located in the main hospital and includes six shared consultation-examination rooms, as well as EEG procedure rooms. Comprehensive neuroradiology facilities are available, including MRI, CT, PET and ultrasound. The Bronx VA uses the same electronic medical record system used throughout the VA system nationally, allowing seamless access to medical records of patients seen at other VA hospitals, as well as health records from the Department of Defense.

Residents rotate through the VA for 4-6 weeks in their PGY-2 and PGY-3 years.

The VA experience provides a different patient population that is wonderful to work with and very grateful for residents' efforts. During this rotation, residents are exposed to the chronic neurological effects of common military exposures like traumatic brain injury and the frequent presence of co-morbid mental health disorders like post-traumatic stress disorder.

Residents cover the inpatient consult service and emergency department, as well as participate in one half day outpatient clinic per week. Hours are 9 am-5 pm, and there are no late call or night float requirements; on nights and weekends, residents take call from home.

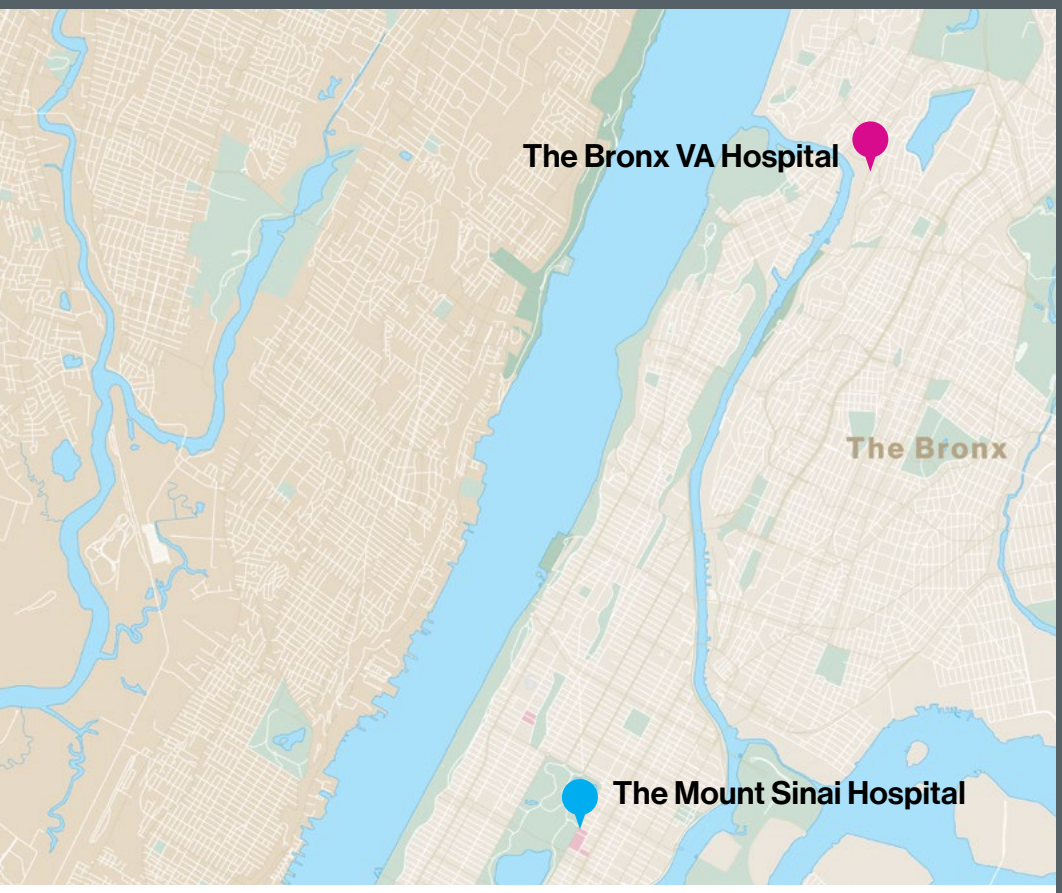
The Bronx VA has a 5-story facility dedicated solely to research attached to the main hospital. Neurological research at this facility includes both basic science and clinical studies with a research that includes Alzheimer's disease, traumatic brain injury, spinal cord injury, and movement disorders. Residents are welcomed and encouraged to work with investigators at the Bronx VA during their elective, and multiple faculty members at the Bronx VA have active joint-appointments at Mount Sinai.

Accessibility

The Mount Sinai shuttle service provides convenient transportation to and from the Bronx VA all day, Monday through Friday. The hospital is also accessible by subway. Uber services are provided to residents for after-hours commuting.

"I hear nothing but consistent praise from other services for our resident-run consult service. . . Working with the Mount Sinai residents is the best part of my job."

- Gregory Elder, MD, Director, Bronx VA, Neurology



Teaching Faculty

Gregory Elder, MD
Director of Neurology at the Bronx VA, Professor of Psychiatry and Neurology

Fanny Elahi, MD, PhD
Associate Professor of Neurology, Neuroscience, and Pathology, Molecular, And Cell-Based Medicine

Sam Gandy, MD, PhD
Professor of Neurology and Psychiatry

Noam Harel, MD, PhD
Associate Professor of Neurology and Rehabilitation Medicine

Sam Horng, MD, PhD
Assistant Professor of Neurology and Neuroscience
Mount Sinai Neurology Resident-Researcher Training Program (R25) and Multiple Sclerosis Fellowship Alum

Maria Muxfeldt, MD
Clinical Instructor, Neurology

Melissa Nirenberg, MD, PhD
Professor of Neurology

Ruth Walker, MB, ChB, PhD
Professor of Neurology
Mount Sinai Movement Disorders Fellowship Alum

"I had an excellent training experience at the Bronx VA helping to take care of those who have given so much to our nation. I was able to learn a lot about the management of stroke, seizure, TBI, spinal injury and more in the veteran population. The attendings there are always willing to teach and the patients are very appreciative of their care."

- Patrick Ebbert MD, Class of 2024 Chief Resident

Research Elective Track

Director, Noam Harel, MD, PhD

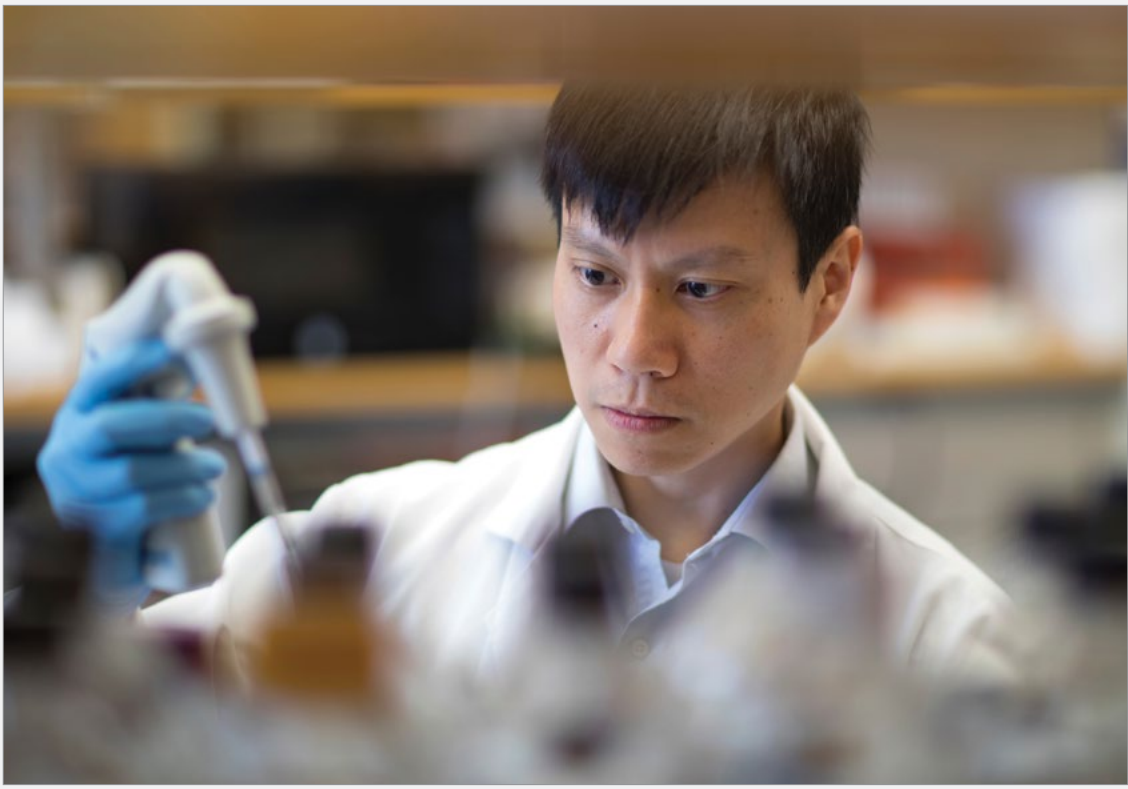
The Mount Sinai Neurology Residency Program offers a Research Track option for residents who are interested in pursuing careers as clinician-investigators. Research Track residents integrate research within their residency training. The Research Track program facilitates mentoring relationships between individual residents and investigators, culminating in a dedicated six-month research block during the fourth year of residency in preparation for fellowship and beyond.

The program also provides a series of skill-building discussions, meetings, and events to promote rigorous study design, data collection, statistical analysis, and grant preparation. Led by Dr. Noam Harel, the program offers intensive career mentoring as well as guidance on finding suitable project mentors. The pool of Research Track mentors includes outstanding translational and clinical scientists throughout the Departments of Neurology and Neuroscience, as well as through the Friedman Brain Institute, one of the world's premier neuroscience research institutions. Research track candidates should have research experience or an advanced research degree. The program meets all Accreditation Council for Graduate Medical Education Residency Review Committee (ACGME-RRC) requirements for clinical training and for Flexible Training in Neurology. There is not a separate ERAS application route for applicants interested in the Research Track; interested applicants should apply through ERAS to the MSH Neurology Residency Categorical Track.

Research Elective Track Objectives

- Foster the development of neurologist-investigators by mentoring Research Track residents in the design, implementation, and interpretation of a translational neuroscience research project.
- Provide Research Track residents a supportive environment in which to obtain mentorship and develop career skills in biomedical research without disrupting the clinical residency experience.
- Expose Research Track residents to scholarship and career opportunities while promoting a sense of research community.

Sam Horng, MD, PhD *MSH Neurology Research Residency Alum and current Assistant Professor of Neurology and Neuroscience identifying specific contact-mediated interactions between astrocytes and immune cells, in order to develop treatments for multiple sclerosis.*



Global Health Elective Track

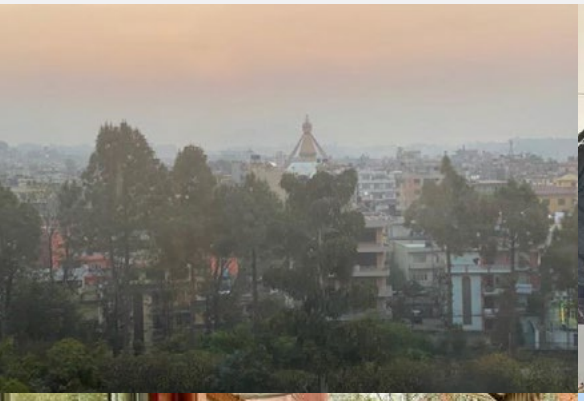
Director, Allison Navis, MD

The global health track is designed to provide an overview of global health work in neurology and to prepare residents for global health electives in their PGY4 year and continued work during their careers. The track works in conjunction with the hospital global health program, and the main goal is to focus on topics most relevant to neurology including clinical practice in resource limited settings, barriers to access to neurological care in other countries, and cultural understanding/compassion. We will focus on neurological disorders such as stroke, epilepsy and dementia that can have devastating effects on people around the world, and ways to improve access to neurological care in these areas.

Participation in the global health track includes mandatory attendance at neurology meetings which are held every 3 months, the option to do a global health elective during their PGY4 year at one of our approved international sites, and a final project due before graduation. We also encourage attendance to the hospital global health lectures that occur every 2 months and focus on a broader view of global health work among medical and surgical specialties, including participating in research. Residents will obtain a certificate upon completion of the global health track.

Global Health Elective Track Objectives

- Teach residents core topics in global neurological care in resource-limited settings
- Mentor residents in addressing barriers to neurological care and improving access globally
- Enhance residents' cultural sensitivity and compassion in global health practice
- Expose residents to global health electives and career-long involvement in international neurology



Michelle Fabian, MD

Dr. Fabian visited Nepal in March 2024 as part of the Ampath Nepal Partnership between Mount Sinai and Dhulikhel Hospital and Kathmandu University School of Medical Sciences. Our Global Health Track residents can complete a rotation in Nepal or at another approved international site during their PGY4 year.

Medical Education Elective Track

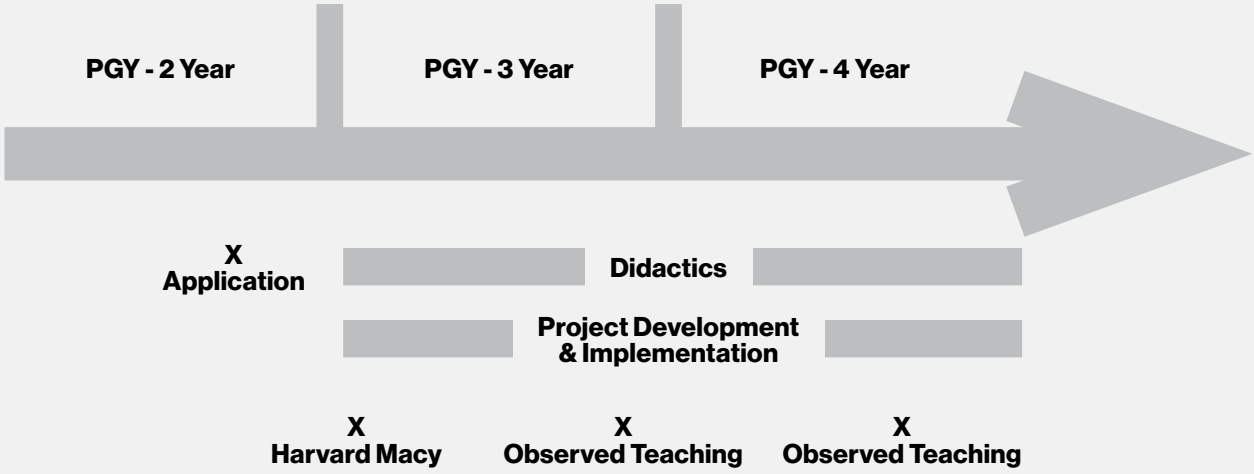
Director, Laura K Stein, MD, MPH

The Mount Sinai Neurology Residency Program has a long-standing tradition of training medical educators, and we are proud that our alumni hold formal medical education roles in the Neurology departments of leading academic medical centers throughout the country.

We are thrilled to offer residents interested in a career in Medical Education the opportunity to participate in our two-year Medical Education Track.

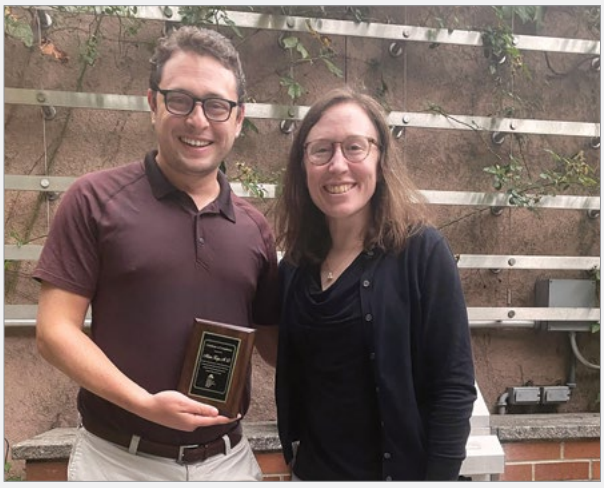
Residents apply at the end of the PGY-2 year and begin a two-year curriculum covering learning theory, curriculum design and implementation, feedback and evaluation, and medical education scholarship in the fall of the PGY-3 year. Didactics occur outside of clinical and elective time so that all interested residents can participate. With the mentorship of Neurology education faculty, residents develop and implement a Neurology medical education projection and apply to attend the Post-Graduate Trainees: Future Academic Clinician-Educators course. Additionally, participants participate in quarterly Neurology education journal club dinners with program leadership and develop their skills as medical educators by participating in formal teaching opportunities in the residency and medical school level.

Residency applicants interested in participating will be provided with the opportunity to learn more about the track on their interview day and can reach out to track and program leadership with questions at any time.



Medical Education Track Objectives

- Teach residents core topics in medical education
- Mentor residents in the design, implementation, and assessment of a Neurology medical education project
- Enhance residents' medical education skillset
- Expose residents to scholarship and career opportunities in medical education



Medical Education Track Graduate Adam M Karp, MD, receives an award from Laura K Stein, MD, MPH at graduation.

Pediatric Neurology Residency Program

The Mount Sinai Pediatric Neurology Residency Program is an ACGME accredited 5-year program whose mission is to provide exceptional training in pediatrics and neurology through broad exposure to general and subspecialty neurology disciplines in one of the most culturally diverse cities in the world. Residents enter the neurology residency program after completing two years of General Pediatrics at the Mount Sinai Kravis Children's Hospital. In their PGY-3 year, they enter the Adult neurology training year followed by two years of pediatric neurology In the inpatient and outpatient settings. Our residents rotate through four hospitals in the Mount Sinai Health System, including the nationally ranked Mount Sinai Kravis Children's Hospital, as well as our ambulatory practice in Union Square and Elmhurst Hospital in Queens, part of New York City Health and Hospitals. Each setting provides a unique and meaningful learning experience. Residents are exposed to a diverse population in our hospitals and clinics and have the opportunity to encounter rare diseases and conditions as well as participate in clinical and translational research projects related to neurological disorders of childhood. We have experts in the subdivisions of Pediatric Epilepsy, Headache disorders, Neurometabolic disorders, neurodevelopmental disorders, and pediatric autoimmune disorders.

More information on this training program can be found at: https://icahn.mssm.edu/education/residencies-fellowships/list/msh-pediatric-neurology-residency

Select Mount Sinai Neurology Residency Alumni in Education Leadership Positions

Alexandra Brown, MD - Assistant Program Director for the UCSF Neurology Residency

Michelle Fabian, MD - Neurology Residency Program Director, Icahn School of Medicine at Mount Sinai

Asaff Harel, MD - Program Director for the North Shore University/Long Island Jewish Neurology Residency Program

Peter Jin, MD - Associate Program Director, University of Maryland Neurology Residency

Michelle Kaku, MD - Vice Chair of Education, Department of Neurology, Icahn School of Medicine at Mount Sinai

Anna Pace, MD - Director, Headache Medicine Fellowship Program, Icahn School of Medicine at Mount Sinai, Associate Director, Brain and Behavior, Icahn School of Medicine at Mount Sinai

Jillian Rosengard, MD - Neurology Clerkship Director, Albert Einstein College of Medicine

Susan Shin, MD - Director, Neuromuscular Medicine Fellowship Program, Icahn School of Medicine at Mount Sinai

Kara Stavros, MD - Neurology Clerkship Director, Warren Alpert Medical School of Brown University

Laura Stein, MD, MPH - Neurology Residency Associate Program Director, Icahn School of Medicine at Mount Sinai

Elina Zakin, MD - Program Director, Neuromuscular Medicine Fellowship, NYU Langone Health; Associate Program Director, Neurology Residency Program, NYU Langone Hospital Brooklyn

Research Opportunities in Neurology and Neuroscience

At Mount Sinai, neurology residents interact with a diverse array of experts in neurology and neuroscience research spanning the translational spectrum from bench to bedside and beyond.

Under the leadership of the Vice Chair for Clinical Research, **Jessica Robinson-Papp, MD, MS,** the Department of Neurology is enthusiastically committed to nurturing the next generation of neurologist-scientists. Residents pursuing clinical research projects have access to expert guidance on study design, data collection, statistical analysis, grant preparation, and career mentoring. In addition to Dr. Robinson-Papp, the Department of Neurology core research support team includes:

- **Lidija Ivic, Ph.D.,** Administrative Director for Research. Dr. Ivic manages a team of Grants Managers who assist Neurology Department faculty and trainees with grant submissions and post-award grant management.
- **Mary Catherine George, MM, PhD,** Clinical Research Program Director. Dr. George has an unparalleled understanding of the regulatory navigation for clinical studies, ranging from study conceptualization to the final process of closing outregulatory documents and contracts.
- Led by **Parul Agarwal, PhD**, the Neurology Biostatistics Clinic occurs twice each month to answer statistical questions about current and future research projects. Dr Agarwal is supported by a master's degree-level statistical programmer with expertise in major statistical software programs.
- The Department of Neurology employs 70 clinical research coordinators and managers to support our studies.
- The Research Residency Track (RRT) program, led by **Noam Harel, MD, PhD,** facilitates mentoring relationships between individual residents and investigators. RRT also provides a series of skill-building discussions, meetings, and events to foster RRT residents' sense of community and enhance the research experience without disrupting the clinical residency experience.

The Friedman Brain Institute is an interdisciplinary research hub that unites pre-clinical and translational research performed in the Nash Family Department of Neuroscience with translational and clinical research in the Department of Neurology and other clinical departments (e.g., psychiatry, rehabilitation medicine). The Institute is led by world-renowned neuroscientist **Paul J. Kenny, PhD.**

Lab of Stephanie Tankou, MD, PhD

Research on gut-derived bacteria that regulate inflammation in the central nervous system, with the goal of identifying those that are biomarkers as well as targets of future disease modifying therapies for multiple sclerosis and other central nervous system autoimmune diseases.

Lab of Ana Pereira, MD, MS

Research on selective vulnerability of glutamatergic neural circuits to synaptic changes in aging and neuronal loss in Alzheimer's disease, using modern quantitative cell biology methods in conjunction with molecular tools and functional assays, and translating basic science findings into clinical studies with Alzheimer's disease novel treatment trials.

Lab of Helen Mayberg, MD

Cross-disciplinary, collaborative translational research of neurologists, neurosurgeons, and psychiatrists with experts from neuroscience, imaging, engineering, bioinformatics, neuro-engineering, and computational neuroscience, with the aim of developing new circuit-based strategies and state-of-the-art individualized treatments for patients with advanced neuropsychiatric disorders.

Lab of Trey Hedden, PhD

Research focuses on integrating multiple brain markers from neuroimaging to build a comprehensive picture of how aging and neurodegenerative disease affect the relationship between brain function and cognition at an individual level. Methods employed include multiple MRI brain markers, PET markers of amyloid and tau accumulation, PET markers of dopamine transmission, and cognitive testing.

Pre-clinical Neuroscience

The Nash Family Department of Neuroscience investigates the nervous system at the molecular, cellular, systems, and behavioral levels using a variety of model systems, from flies and worms, to transgenic mice and rats, to nonhuman primates, as well as the human brain itself. Department faculty conduct collaborative research in nationally- and globally-recognized laboratories. It is currently ranked second in research funding from the National Institutes of Health. Forty-three primary faculty scientists in the department perform groundbreaking research, and mentor and train tomorrow's leaders, providing critical contributions to our graduate and medical education programs. Many Department of Neurology faculty hold secondary appointments in the Department of Neuroscience.

Department of Neurology Research Programs

Over 75 of our faculty members have dedicated time for research. These programs span the breadth of the translational spectrum and neurology sub-specialties. Below we highlight just some of our researchers.

Cognition and Behavior

Clinical research in Alzheimer's disease and other dementias at Mount Sinai is interdisciplinary and involves exciting collaboration between neurology faculty and other departments and institutes including psychiatry and neuroscience. Numerous neurology faculty members participate in clinical research within the Ronald M. Loeb Center for Alzheimer's Disease, the Alzheimer's Disease Research Center, and the Barbara and Maurice Deane Healthy Brain Initiative. In addition, the Nash Family Center for Advanced Circuit Therapeutics, directed by Dr. Helen Mayberg, focuses on innovative research strategies to advance the use of deep brain stimulation (DBS) and other therapies to treat medication-resistant neuropsychiatric disorders.

Emmanuel During, MD

Scalable procedures for diagnosing and monitoring Lewy body disease in the general population, which could enable early and impactful neuroprotective interventions.

Fanny Elahi, MD, PhD

Vascular contributions to cognitive impairment and dementia, and development of new therapeutics.

Sam Gandy, MD, PhD

Biomarkers for the antemortem diagnosis of chronic traumatic encephalopathy (CTE) in athletes and veterans; testing new classes of drugs aimed at relieving brain trauma-related neuropsychiatric syndromes.

Cognition and Behavior (cont.)

Trey Hedden, PhD
Integrating multiple brain markers from neuroimaging to build a comprehensive picture of how aging and neurodegenerative disease affect the relationship between brain function and cognition at an individual level.

Helen Mayberg, MD
Cross-disciplinary, collaborative translational research of neurologists, neurosurgeons, and psychiatrists with experts from neuroscience, imaging, engineering, bioinformatics, neuro-engineering, and computational neuroscience, with the aim of developing new circuit-based strategies and state-of-the-art individualized treatments for patients with advanced neuropsychiatric disorders.

Ana Pereira, MD
Research on selective vulnerability of glutamatergic neural circuits to synaptic changes in aging and neuronal loss in Alzheimer's disease.

Monica Rivera Mindt, PhD
Community based participatory research in neurocognitive disorders with a focus on brain health equity.

Epilepsy

The epilepsy team participates in numerous clinical trials to offer access to the latest treatment advances to their patients. In addition, individual faculty members pursue investigator-initiated studies.

Leah Blank, MD
Use and comparative safety of anti-seizure medicines in older adults with and without cognitive decline.

Gena Gehring, MD
Supporting self-management for people with epilepsy and a history of negative health events with a focus on rural and underserved people with epilepsy.

Jiyeoun (Jenna) Yoo, MD
Novel treatments for people with super-refractory status epilepticus.

Headache, Chronic Pain and Fatigue

The recently established David S. and Ruth L. Gottesman Center for Headache Treatment and Translational Research, led by Bridget Mueller, MD, PhD, conducts NIH-funded research and industry sponsored clinical trials in migraine and other headache disorders. In addition, the Mount Sinai Department of neurology has unique strength in the overlap of chronic pain with other conditions including dysautonomia and chronic fatigue.

Bridget Mueller, MD, PhD
The role of the autonomic nervous system in migraine chronification and the development of co-morbid syndromes such as orthostatic intolerance, chronic fatigue and chronic overlapping pain syndromes (COPCs).

Benjamin Natelson, MD
Mechanisms of post-exertional malaise in chronic fatigue syndrome.

Movement Disorders

The movement disorders team boasts robust involvement in industry-sponsored clinical trials, serving as a site in over 20 clinical trials in the past year for a variety of conditions including Parkinson disease, multiple system atrophy, and essential tremor. Additionally, our work in movement disorders includes labs across the translational spectrum.

Susan Bressman, MD and Rachel Saunders-Pullman, MD
Genetic determinants, biomarkers and the gut-brain axis in Parkinson disease.

Michelle Ehrlich, MD
Common pathophysiologic mechanisms of genetic dystonias.

Melissa Nirenberg, MD, PhD and Ruth Walker, MD, PhD
Clinical and neuropathological characterization of Parkinsonism related to TBI in veterans.

Zhenyu Yue, PhD
Mechanisms underlying the pathophysiology of Parkinson disease and other movement disorders.

MS and Neuroinflammatory Disorders

Multiple faculty in the Corinne Goldsmith Dickinson Center for Multiple Sclerosis have active clinical research including industry-sponsored and investigator-initiated clinical trials and NIH-funded work.

Erin Beck, MD, PhD
Mechanisms and clinical implications of lesion formation, tissue damage, and repair in MS and other autoimmune CNS disorders using advanced MRI techniques, CSF transcriptomics, and histopathology.

Ilana Katz Sand, MD
The role of diet and the microbiome in biological aging and the risk for disease and disability progression in MS.

James Sumowski, PhD
Cognitive reserve and identifying risk and protective factors for cognitive decline in MS.

Stephanie Tankou, MD, PhD
Gut-derived bacteria that regulate inflammation in the central nervous system, with the goal of identifying those that are biomarkers as well as targets of future disease modifying therapies for MS and other CNS autoimmune diseases.

Neuro-Infectious Diseases

The research of our neuro-infectious disease division focuses on the neurologic complications of HIV. We enjoy close relationships with our basic neuroscience and virology colleagues, as well as a large primary care HIV clinic, and community engagement team, allowing for a truly unique research enterprise.

Susan Morgello, MD
Directs the Manhattan HIV Brain Bank (MHBB) which is the largest source of neurologic tissues from donors who were living with HIV; the MHBB is a critical research resource for neuro-HIV researchers nation-wide. Collaborating neurology faculty members include Drs. Jessica Robinson-Papp and Allison Navis.

Neuromuscular Disorders

Faculty members within the neuromuscular division participate in multicenter clinical studies in diverse conditions such as ALS, myasthenia gravis, and peripheral neuropathies. In addition, we have investigator-initiated studies focusing on diabetic neuropathy and autonomic neuropathy.

Jessica Robinson-Papp, MD
Clinical trials of novel therapeutics for chronic pain with a focus on painful diabetic peripheral neuropathy. The interaction between autonomic neuropathy and end organ disease in diverse conditions including HIV.

Neuro-oncology

The neuro-oncology team, including Lyndon Kim, MD, Kevin Elmore, MD, Joshua Friedman, MD participates in multiple clinical trials to provide their patients access to cutting edge treatments.

Neuro-otology and vestibular dysfunction

Gay Holstein, PhD
Neuronanatomical studies of functionally defined central and peripheral vestibular system structures.

Joanna Jen, MD, PhD
Elucidation of the genetic and physiological bases of disorders affecting balance and eye movement control in neurodevelopment and neurodegeneration, through cellular and animal studies, and clinical trials.

Sergei Yakushin, PhD
Development of novel treatments for Mal de Débarquement Syndrome (MdDS).

Neuro-rehabilitation

Noam Harel, MD
Discovery of novel approaches to restore movement to parts of the body weakened by neurologic diseases including spinal cord injury and amyotrophic lateral sclerosis (ALS).

Novel diagnostic techniques

Isaac Marin-Valencia, MD
Director of the neurometabolomics core. Elucidation of how inherited metabolic derangements disrupt the development and maintenance of the nervous system.

Stuart Sealfon, MD
Techniques for microarray design and analysis, transcription-based assays for profiling drug responses, single cell assays of cellular signaling and quantum dot-based assays of gene and protein expression in single brain cells.

Stroke and Cerebrovascular Disease

The stroke division maintains active involvement in NIH- and industry-sponsored clinical trials. In addition, numerous faculty pursue investigator-initiated research.

Mandip Dhamoon, MD, DrPH
Modeling outcomes related to stroke, estimation of risk of vascular disease, and the impact of stroke on functional status and quality of life.

Benjamin Kummer, MD
Use of information technology solutions to enhance neurologic care quality and efficiency, with an emphasis on stroke, including clinical decision support tools, predictive analytic models, wearables, mobile- and tele-health.

Laura Stein, MD
Stroke health services and outcomes research focusing on disparities in large vessel occlusion stroke care.

Michael Waters, MD
Pre-clinical work targeting microthromboses, small vessel hypoperfusion, and microinfarcts

Resident Life at Mount Sinai in New York City

What We Do When We're Not at Work...

Nature

We live in one of the most populated cities in the US, but finding fresh air is easy. Some examples: Central Park comprises more than 800 acres of lawns, athletic fields and forests, and the Jacqueline Kennedy Onassis Reservoir (pictured below) and the spectacular Conservatory Garden are just steps from the hospital's doors. Rockaway Beach and its newly rebuilt boardwalk are a 45-minute, $4 ferry ride from Manhattan, and the Jersey Palisades is just a short bike ride over the George Washington Bridge.

Food

We could make a whole separate brochure for this topic. A few of our favorites: Smorgasburg, an outdoor food market with more than 100 vendors that's open April through October in multiple locations throughout the city; Pio Pio, a tiny hole-in-the-wall Peruvian place a few blocks from the hospital; Earl's Beer and Cheese, a local bar where you'll run into half of the hospital on any given night and enjoy one of the best grilled cheese sandwiches in the city. Elmhurst, home to one of the most diverse populations in the U.S., offers an incredible array of international food options, making it the perfect spot to grab a bite when you're on call at Elmhurst Hospital.

For those with a sweet tooth, you can find bubble tea, French pastries, gourmet cookies, and at least 20 different flavors of frozen yogurt within a 10-minute walk from the hospital. Many local food vendors offer discounts for Mount Sinai employees.

Sports

Mets fans? How about the Yankees? Knicks? Jets? Rangers? We also have access to discounted tickets to the US Open (staffed by Mount Sinai doctors), and have a blast supporting our friends and colleagues in the New York City Marathon each fall. Mount Sinai offers free memberships to the gym and pool at the nearby 92nd Street Y, which is also host to weekly concerts, lectures, and readings.

Entertainment

There are concerts nearly every night of the week, from the NYC Philharmonic to the free Summer Stage and the Global Citizen Festival in Central Park, to Taylor Swift at Met Life Stadium. Broadway goes without saying (we can get discounted tickets to shows, too). The city is also home to some of the best jazz clubs in the world, comedy clubs that cost next to nothing and often host some of the biggest names in the business, the NYC Ballet, and live tapings of shows such as *The Daily Show* and *Saturday Night Live*.

Jacqueline Kennedy Onassis Reservoir in Central Park


Neurology Residency and Fellowship Programs
131
THE MET

"My interview for Mount Sinai felt like a return to home. I have the best support system in my co-residents, fellows, attendings, nursing staff, etc., which makes coming to work a joy every day. They are like my family and there is no place I would rather be."

Claudia Zbrzeski, MD, Class of 2025

Mount Sinai Hospital Neurology Residency Graduates and Where They Went

Class of 2025

Luke Kiefer, MD
Neuromuscular Fellowship, Icahn School of Medicine at Mount Sinai

Emma Loebel, MD
Vascular Neurology Fellowship, New York University

Nikunj Patel, MD
Neuromuscular Fellowship, Icahn School of Medicine at Mount Sinai

Chiedza Mupanomunda, MD
Clinical Neurophysiology Fellowship/EMG, Icahn School of Medicine at Mount Sinai

Lauren Nelson, MD
Neurocritical Care Fellowship, Yale School of Medicine

Sai Polineni, MD
Vascular Neurology Fellowship, Yale School of Medicine

Todd Rubin, MD, PhD
Sports Neurology Fellowship, University of California Los Angeles

Masrai Williams, MD
Sleep Medicine Fellowship, Icahn School of Medicine at Mount Sinai

Cameron Yi, MD
Neurocritical Care Fellowship, Yale School of Medicine

Claudia Zbrzeski, MD
Neuroimmunology Fellowship, Icahn School of Medicine at Mount Sinai

Class of 2024

Michael Allen, MD, MHPE
Epilepsy Medicine Fellowship, The University of Pennsylvania

Philip Avigan, MD, PhD
Movement Disorders Fellowship, Beth Israel Deaconess Medical Center

David Daniel, MD
Internal Medicine Resident, Icahn School of Medicine at Mount Sinai

Patrick Ebbert, MD
Headache Medicine Fellowship, Mass General Brigham and Harvard Medicine

Ilana Green, MD
Vascular Neurology Fellowship, NYU Grossman School of Medicine

Bryan Green, MD
Movement Disorders Fellowship, Mount Sinai West/ Mount Sinai Union Square

Rafique Haynes, MD
Vascular Neurology & Critical Care EEG Fellowship, Yale School of Medicine

Destiny Marquez, MD
Neurocritical Care Fellowship, Icahn School of Medicine at Mount Sinai

Carly Ray, MD
Headache Fellowship, Icahn School of Medicine at Mount Sinai

Madeline Stecy, MD
Epilepsy Medicine Fellowship, Hospital of the University of Pennsylvania

Class of 2023

HoWing "Andy" Chan, MD
Epilepsy Medicine Fellowship, Icahn School of Medicine at Mount Sinai

Eveline M. Gutzwiller, MD
Neurocritical Care Fellowship, Northwell Health, Northshore University Hospital

Leslie Higuita, MD
Clinical Neurophysiology EMG Track Fellowship, Icahn School of Medicine at Mount Sinai

Adam M. Karp, MD
Vascular Neurology Fellowship, Icahn School of Medicine at Mount Sinai

Kate Kerpen, MD
Vascular Neurology Fellowship, Icahn School of Medicine at Mount Sinai

Saritha Kosarussavadi, MD, MS
Neuromuscular Fellowship, Icahn School of Medicine at Mount Sinai

Philip Maynard, MD
Headache Fellowship, Icahn School of Medicine at Mount Sinai

Sathiji Kathiresu Nageshwaran, MBBS, PhD
Postdoctoral Associate of Neuroscience, Weill Cornell Medical Center

Daniel Schwartz, MD, MA, Msc
Neuro-Ophthalmology Fellowship, Massachusetts Eye and Ear

Neurology Fellowship Training Programs

The Icahn School of Medicine at Mount Sinai (ISMMS) offers a competitive and comprehensive array of one- and two-year Fellowship Training Programs. All fellowships governed by ACGME or the United Council for Neurologic Subspecialties (UCNS) are accredited by those bodies.

In the last few years, new subspecialty fellowships have been added in epilepsy, headache, neuro-oncology, and neuro-otology.

Graduates of our fellowship programs are prepared for and have secured positions in academic neurology primarily, and also in private practice or employment in health systems.

ISMMS Fellowships	Duration (Years)	Accrediting Body	Total Number of Fellows	Director
Behavioral Neurology and Neuropsychiatry	1 - 2	UCNS	2	Georges Naasan, MD
Clinical Neurophysiology (EEG/EMG Tracks)	1	ACGME	2 (one in EEG track; one in EMG track)	Stephen Scelsa, MD
Epilepsy	1	ACGME	4	Ji Yeoun Yoo, MD
Headache Medicine	1	UCNS	3	Anna Pace, MD
Movement Disorders	2	Non-ACGME	1	Winona Tse, MD
Multiple Sclerosis	2	Non-ACGME	4	Fred Lublin, MD
Neurocritical Care	2	ACGME UCNS	7	Neha S Dangayach, MD
Neuroendovascular Surgery	2	CAST	2	Johanna T. Fifi, MD; J Mocco, MD, MS; Reade A. De Leacy, MD
Neuro-infectious Disease	1 - 2	Non-ACGME	1	Jessica Robinson-Papp, MD, MS
Neuromuscular Medicine	1	ACGME	2	Susan Shin, MD
Neuro-Oncology	1	UCNS	1	Kevin Elmore, MD
Neuro-Otology	1 - 2	Non-ACGME	1	Joanna Jen, MD, PhD
Vascular Neurology	1	ACGME	4	Michael Waters, MD, PhD

"I have been continually ***impressed*** *by the quality and dedication of our Fellows in Clinical Neurophysiology and Neuromuscular Diseases, including their transformation from Neurology Residency Graduates to accomplished Neuromuscular Specialist clinicians. Not infrequently, their digging into a complex history, hard work, and insights have led to the determination of a diagnosis that had eluded me."*

- David M. Simpson, MD, Director of the Neurophysiology Lab

Neurology Divisions and Centers

The Department of Neurology includes the full range of subspecialty divisions and programs offering comprehensive and compassionate care to children and adults. In addition, most of the divisions and programs offer fellowship opportunities. With the breadth of the Mount Sinai Health System across Manhattan, Queens, Brooklyn, and South Nassau, our trainees learn from complex and rare cases transferred in from across the Health System, in addition to referrals to our comprehensive care centers and programs from across the U.S. and around the world.

Corinne Goldsmith Dickinson (CGD) Center for Multiple Sclerosis

The CGD Center's mission is to provide exceptional comprehensive care to patients with multiple sclerosis and other neuroinflammatory disorders, including neuromyelitis optica, anti-MOG antibody disease, autoimmune encephalitis, neurosarcoidosis, and CNS vasculitis. Faculty also engage in high-quality, cutting edge clinical, basic, and translational research studies, and they provide educational services to patients and family members, students, residents, fellows, and practicing physicians. The CGD Center's broad base of physicians, scientists, social workers, nurses, and related medical specialists offers state-of-the-art programs in disease management, including diagnostics, experimental therapeutics, basic and clinical research, psychiatric care, support services, and access to the latest clinical trials. The MS Center's new Patient Wellness Program encourages a holistic approach to truly provide comprehensive care to people living with MS. In addition to providing outstanding patient care, the Center's goals include the rapid translation of new discoveries into more effective treatments and training the next generation of clinician-scientists and clinician-educators in the care of multiple sclerosis.

- Long-running support from National Multiple Sclerosis Society Center-sponsored Physician Fellowships for post-residency clinical and research training
- Numerous opportunities for trainee participation in clinical care and research
- Multiple ongoing clinical trials of novel agents with co-localization of research staff and clinical care in the CGD Center
- Pre-clinical and clinical research on the microbiome in Multiple Sclerosis funded by the NIH
- Clinical research studying diet, exercise, sleep, and other modifiable lifestyle factors in Multiple Sclerosis funded by the National MS Society and NIH
- Dedicated neuropsychology research, clinical care, and training program in multiple sclerosis, with cutting-edge research on cognitive reserve in multiple sclerosis including NIH-funded research to identify modifiable risk and protective factors linked to cognitive decline
- Advanced imaging research focused on improving diagnostic and prognostic accuracy and developing new outcome metrics to detect MS disease progression funded by the NIH and Department of Defense
- Model for provision of Comprehensive MS Care through Patient Wellness Program launched in 2020
- One of a small number of Neuromyelitis Optica research and clinical care centers in the U.S.
- Recently recruited pediatric neuroimmunology specialist providing clinical care and participating in future pediatric clinical trials
- **Neuroimmunology/Multiple Sclerosis Fellowship Program Available**

MSH Teaching Faculty:

Fred D. Lublin, MD - Saunders Family Professor of Neurology; Director of the Corinne Goldsmith Dickinson Center for Multiple Sclerosis; Director of the Multiple Sclerosis Fellowship Program

Jordyn Anderson, PsyD - Assistant Professor of Neurology - *Mount Sinai Postdoctoral Fellowship in Clinical Neuropsychology and Clinical Research Alum*

Erin Beck, MD, PhD - Assistant Professor of Neurology

Michelle T. Fabian, MD - Associate Professor of Neurology; Director of Mount Sinai Neurology Residency Program - *Mount Sinai Neurology Residency and Multiple Sclerosis Fellowship Alum*

Sam Horng, MD, PhD - Assistant Professor of Neurology and Neuroscience - *Mount Sinai Neurology Resident-Researcher Training Program (R25) and Multiple Sclerosis Fellowship Alum*

Ilana Katz-Sand, MD - Associate Professor of Neurology; Associate Director of the Corinne Goldsmith Dickinson Center for Multiple Sclerosis - *Mount Sinai Multiple Sclerosis Fellowship Alum*

Sylvia Klineova, MD, MS - Assistant Professor of Neurology - *Mount Sinai Multiple Sclerosis Fellowship Alum*

Stephen C. Krieger, MD - Professor of Neurology - *Mount Sinai Neurology Residency and Multiple Sclerosis Fellowship Alum*

Sarah Levy, PhD - Assistant Professor of Neurology - *Mount Sinai Postdoctoral Fellowship in Clinical Neuropsychology and Clinical Research Alum*

Aaron Miller, MD - Professor of Neurology; Medical Director of the Corinne Goldsmith Dickinson Center for Multiple Sclerosis

Sammita Satyanarayan, MD - Assistant Professor of Neurology - *Mount Sinai Multiple Sclerosis Fellowship Alum*

James F. Sumowski, PhD - Associate Professor of Neurology and Psychiatry; Co-Director of the Postdoctoral Fellowship in Clinical Neuropsychology and Clinical Research

Stephanie Tankou, MD, PhD - Assistant Professor of Neurology

Rachel Zolno, MD - Assistant Professor of Neurology and Pediatrics

Vascular Neurology Division

Collaborating as teams across disciplines of vascular neurology, emergency department, neurosurgery, neurocritical care neuroradiology, and neurorehabilitation, the Mount Sinai Stroke Center features 24/7/365 availability for emergency consultation and highly specialized treatment, an expert staffed neurointensive care unit, a state-of-the-art stroke unit, and access to some of the latest clinical trials. Center faculty are recognized as leaders in stroke research and treatment, having pioneered major advances in medical therapies for treating and preventing stroke, neurosurgical techniques for stroke prevention, and innovative interventional neuroradiologic procedures for stroke patients.

- Stroke division faculty led successful application to become first hospital in New York City and second in New York State to receive Joint Commission Comprehensive Stroke Center designation
- Tele-neurology and neuroimaging applications facilitate acute stroke treatment that is coordinated throughout the Mount Sinai Health System
- Residents and fellows train with world-class neuro-interventional faculty from multiple disciplines: vascular neurology, endovascular neurosurgery, Neurosonology (Transcranial Doppler ultrasound) and neuroradiology
- Substantial resident mentorship in stroke epidemiology and outcomes research
- **ACGME Vascular Neurology Fellowship Program Available**
- **CAST-accredited Neuroendovascular Surgery Fellowship Program Available**

MSH Teaching Faculty:

Michael F Waters, MD, PhD - Professor of Neurology; System-wide Director of the Neurovascular Division; Director of the Vascular Neurology Fellowship Program

Felipe Ayala, MD - Assistant Professor of Neurology; Associate Program Director, Elmhurst Hospital

Irene Boniece, MD - Associate Professor of Neurology

Carolyn Brockington, MD - Assistant Professor of Neurology; Director of the MSW/MSM Stroke Center

Punam Dass, MD - Assistant Professor of Neurology

Mandip S. Dhamoon, MD, DrPH - Professor of Neurology and Medical Education

Michael Fara, MD, PhD - Assistant Professor of Neurology; Director of the MSH Comprehensive Stroke Center

Johanna T. Fifi, MD - Professor of Neurology, Neurosurgery, and Radiology; Co-Director of the Neuro-endovascular Surgery Fellowship Program

Brian Kim, MD - Assistant Professor of Neurology

Benjamin R. Kummer, MD - Associate Professor of Neurology; Director of Clinical Informatics, Department of Neurology

Andrea Lendaris, MD - Assistant Professor of Neurology; Associate Clerkship Director

John Nasrallah, MD - Assistant Professor of Neurology

Lili Velickovic Ostojic, MD - Assistant Professor of Neurology - *Mount Sinai Beth Israel Residency Alum*

Steven Rudolph, MD - Professor of Neurology - *Mount Sinai Neurology Residency Alum*

Kara F. Sheinart, MD - Assistant Professor of Neurology - *Mount Sinai Neurology Residency Alum*

Laura K. Stein, MD, MPH - Associate Professor of Neurology; Associate Director of the Mount Sinai Neurology Residency Program - *Mount Sinai Neurology Residency and Vascular Neurology Fellowship Alum*

Justin Tay, MD - Assistant Professor of Neurology; Site Stroke Center Director for Neurology, Mount Sinai Queens - *Mount Sinai Neurology Residency and Vascular Neurology Fellowship Alum*

Alison Thaler, MD - Assistant Professor of Neurology; Associate Director of the Vascular Neurology Fellowship Program - *Mount Sinai Neurology Residency Alum*

Ankita Tripathi, MD - Assistant Professor of Neurology - *Mount Sinai Neurology Residency and Vascular Fellowship Alum*

Jesse Weinberger, MD - Professor of Neurology - *Mount Sinai Neurology Residency Alum*

Robert and John M. Bendheim Parkinson and Movement Disorders Center

Center physicians, working in partnership with nurse practitioners and social workers, are experts in diagnosing and treating hyper- and hypokinetic movement disorders including Parkinson's disease and parkinsonism, tremor, dystonia, Huntington's disease, myoclonus, and others. State-of-the-art diagnostic and treatment services include inpatient and outpatient consultation, chemodenervation and medication management, and screening and follow-up care for deep brain stimulation (DBS) and focused ultrasound (FUS), in collaboration with research and care teams at Mount Sinai West, including neurosurgeon Brian Kopell, MD. Treatment programs are complemented by robust clinical trial engagement in order to contribute to the discovery of more effective treatments for these often debilitating disorders, as well as basic science research in Parkinson's disease.

- High-volume teaching clinic and movement disorder video teaching rounds and clinico-pathologic conferences
- Active in clinical trials in various movement disorders, including progressive supranuclear palsy, Parkinson's disease, deep-brain stimulation, essential tremor, and cervical dystonia
- Significant NIH and philanthropic funding for basic research into the mechanisms underlying the pathophysiology of Parkinson's disease and other movement disorders
- **Movement Disorders Fellowship Program Available.** Program includes training on the clinical evaluation and treatment of movement disorders, botulinum toxin injections for movement disorders and deep brain stimulation programming as well as research and clinical trials training across 3 campuses; Mount Sinai Hospital, Mount Sinai West hospital, Mount Sinai-Union Square, and the Bronx VA hospital

MSH Teaching Faculty:

Winona Tse, MD - Associate Professor of Neurology; Site Director of MSH Movement Disorders; Associate Director of the Movement Disorders Fellowship Program - *Mount Sinai Neurology Residency Alum*

Emmanuel During, MD - Associate Professor of Neurology

Joohi Jimenez-Shahed, MD - Professor of Neurology; Medical Director of Movement Disorders Neuromodulation and Brain Circuit Therapeutics

Victoria Katsnelson, MD - Assistant Professor of Neurology

Melissa J Nirenberg, MD, PhD - Professor of Neurology

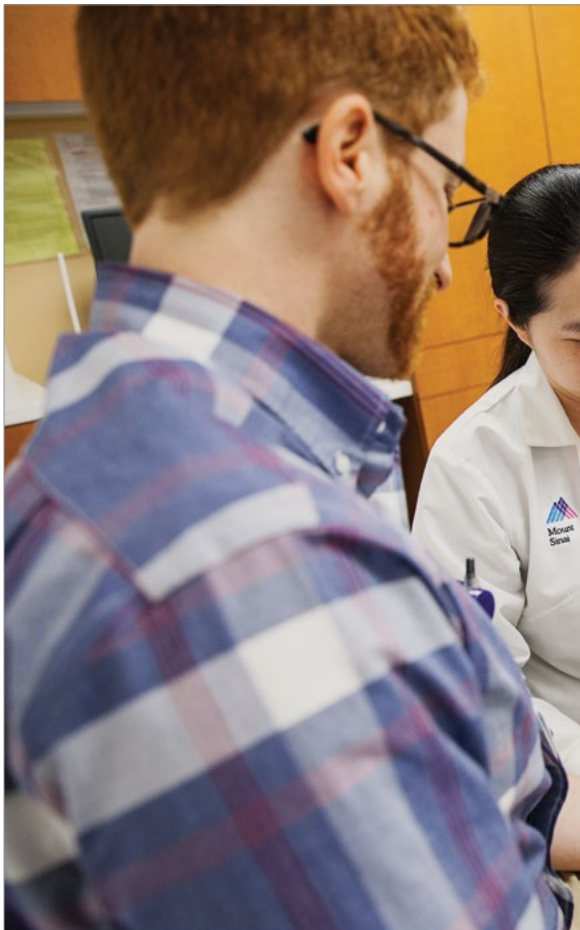
Sarah O'Shea, MD, MSc - Associate Professor of Neurology

Ruth H Walker, MD, PhD - Professor of Neurology

Miodrag Velickovic, MD - Assistant Professor of Neurology

Adina Wise, MD - Assistant Professor of Neurology - *Mount Sinai Beth Israel Residency and Movement Disorders Fellowship Alum*

Zhenyu Yue, PhD - Aidekman Family Professor of Neurology and Neuroscience; Director of Basic and Translational Research of Movement Disorders



Neuromuscular Disease Division

The Neuromuscular Disease Division offers personalized, state-of-the-art care for disorders in neuromuscular transmission, muscle diseases, peripheral neuropathies, and neurogenetics. Faculty are highly experienced in diagnosing and managing these disorders, providing a complete range of diagnostic testing services, including nerve conduction studies and needle electromyography; neuromuscular ultrasound; MR neurography; autonomic testing; and skin, nerve, and muscle biopsies using the most advanced techniques and technologies.

- Referral hub for patients with peripheral neuropathies, myasthenia gravis, and other complex neuromuscular disorders
- Division faculty have led seminal studies in the use of botulinum toxin in spasticity and movement disorders, and novel agents in neuropathic pain
- Federally funded research on implementation of CDC opioid-prescribing guidelines for chronic pain in high-risk populations
- **ACGME Fellowships in Neuromuscular Medicine and Clinical Neurophysiology (EMG specialization) Available**

MSH Teaching Faculty:

David M. Simpson, MD - Professor of Neurology; Director of the Neuromuscular Diseases Division; Director of Clinical Neurophysiology Laboratories at MSH

Rory Abrams, MD - Assistant Professor of Neurology - *Mount Sinai Neurology Residency and Clinical Neurophysiology Fellowship Alum*

Anisha Garg, MD - Assistant Professor of Neurology

Helen Badu Offei, MD - Assistant Professor of Neurology; Medical Director of the Mount Sinai Morningside Inpatient General Neurology

Ming Huang, MD - Associate Professor of Diagnostic, Molecular and Interventional Radiology

Michelle Kaku, MD - Associate Professor of Neurology; Vice Chair of Education

Emma H. Kaplan, MD - Assistant Professor of Neurology - *Clinical Neurophysiology Fellowship Alum*

Daniel Macgowan, MD - Associate Professor of Neurology - *Neuromuscular Fellowship Alum*

Maxim Marshalik, DO, MS - Assistant Professor of Neurology

Shanna Patterson, MD - Associate Professor of Neurology

Timothy Richardson, DO - Associate Professor of Pathology, Molecular and Cell Based Medicine

Jessica Robinson-Papp, MD, MS - Professor of Neurology; Vice Chair of Clinical Research; Director of the NeuroAIDS Program - *Mount Sinai Neurology Residency and Clinical Neurophysiology Fellowship Alum*

Stephen Scelsa, MD - Professor of Neurology; Director of the ALS Center; Director of the Clinical Neurophysiology Fellowship Program

Susan Shin, MD - Associate Professor of Neurology; Director of the Neuromuscular Fellowship Program - *Mount Sinai Neurology Residency, and Clinical Neurophysiology and Neuromuscular Fellowship Alum*

Epilepsy Center

The Mount Sinai Epilepsy Program provides compassionate, comprehensive care for people living with seizures and epilepsy. Our multidisciplinary team—spanning pediatric and adult epileptologists, nurse practitioners, social workers, recreational therapists, nutritionists, epilepsy neurosurgeons, and neuropsychologists—works together to support the whole person, not just the condition.

At The Mount Sinai Hospital campus, the program features both adult and pediatric NAEC Level 4 inpatient Epilepsy Monitoring Units (EMU) and ABRET-certified inpatient and outpatient EEG laboratories. We offer a full spectrum of treatment options, including lifestyle and dietary interventions, medications, alternative therapies, and advanced surgical approaches. Epilepsy surgeries are performed for adult patients at the Mount Sinai West campus and for children at the Kravis children's hospital. All advanced modalities are used including stereo-EEG, laser ablation, resection, neuromodulation (RNS, DBS, VNS), and bedside radiofrequency ablation.

Residents and fellows gain hands-on experience in the EMU, learning EEG interpretation alongside direct patient care. They also develop expertise in managing neurological emergencies such as status epilepticus. Program highlights include:

- No. 1 in the world in number of responsive neurostimulation implants
- Three level 4 epilepsy centers (the highest level of accreditation by the National Association of Epilepsy Centers) located at The Mount Sinai Hospital, Mount Sinai West, and Mount Sinai Kravis Children's Hospital
- Ongoing EEGs at affiliate hospitals (Mount Sinai Morningside, Mount Sinai Queens, Mount Sinai South Nassau) read by Mount Sinai Faculty with complex cases referred for care to the epilepsy faculty
- Renowned epilepsy basic science as well as health outcomes research
- **ACGME Fellowship Programs in Epilepsy and in Clinical Neurophysiology (EEG specialization) available**
- **Neurocritical Care Fellowship Program**

MSH Teaching Faculty:

Lara V. Marcuse, MD - Professor of Neurology; Co-Director of the Epilepsy Center

Madeline C. Fields, MD - Professor of Neurology; Co-Director of the Epilepsy Center - *Mount Sinai Neurology Residency Alum*

David Aharonoff, MD - Assistant Professor of Neurology - *Mount Sinai Neurology Residency and Epilepsy Fellowship Alum*

Leah Blank, MD, MPH - Assistant Professor of Neurology and Population Health Science and Policy

Saadi Ghatan, MD - Professor of Neurosurgery and Pediatrics; Director of the Pediatric Neurosurgery Program

Gena Ghearing, MD - Professor of Neurology; Director of Epilepsy Center Outreach

Kia Gilani, MD - Assistant Professor of Neurology - *Clinical Neurophysiology/EEG Fellowship Alum*

Shu-Wei Hsu, MD - Assistant Professor of Neurology

Maite La Vega-Talbott, MD - Assistant Professor of Neurology and Pediatrics

Kyusang Lee, MD - Professor of Neurology

Fedor Panov, MD - Associate Professor of Neurosurgery; Director of the Adult Epilepsy Surgery Program - *Mount Sinai Neurosurgery Residency Alum*

Adam Saad, PsyD - Assistant Professor of Neurology; Neuropsychology Services for the Epilepsy Center

Sloane Sheldon, PhD - Assistant Professor of Neurology; Neuropsychology Services for the Epilepsy Center

Sonam Verma, MD - Assistant Professor of Neurology and Pediatrics

Ji Yeoun "Jenna" Yoo, MD - Associate Professor of Neurology; Director of the Epilepsy Fellowship Program - *Mount Sinai Neurology Residency Alum*

James "Jake" Young, MD, PhD - Assistant Professor of Neurology and Neurosurgery - *Mount Sinai Neurology Residency and Mount Sinai Neurology Resident-Researcher Training Program and Clinical Neurophysiology Fellowship Alum*

Calvin Yu, MD - Assistant Professor of Neurology

David S. and Ruth L. Gottesman Center for Headache Treatment and Translational Research

The David S. and Ruth L. Gottesman Center for Headache Treatment and Translational Research is a multidisciplinary center specializing in the diagnosis and treatment of chronic and acute headaches and other painful disorders of the skull, brain, and face in adults and children. Subspecialty-trained faculty at the Mount Sinai Hospital, working with a dedicated doctor of nursing practice, nurse practitioners, and nurses form a strong clinical team that employs the newest technologies including a state-of- the-art fluoroscopy suite, botulinum toxin injections, nerve blocks, and a range of pharmacologic therapies including infusion therapies. Care goals are to provide tailored, evidence-based treatment for various headache and facial pain disorders with a focus on complex cases. Our faculty also have the following interests:

- Autonomic Function Laboratory
- The epidemiology of migraine
- Interventional Pain Management
- In Vitro Fertilization and Migraine
- Pediatric Headache Medicine
- Transgender Headache Medicine
- Vascular Disorders Associated with Headache
- Virtual visits/teleneurology outpatient visits for headache patients are available
- **UCNS-certified Headache Medicine Fellowship Program Available**

MSH Teaching Faculty:

Jihan A. Grant, MD - Assistant Professor of Neurology and Anesthesiology; Director of the David S. and Ruth L. Gottesman Center for Headache Treatment and Translational Research, Icahn School of Medicine at Mount Sinai

Mark Barber, MD, MPH - Assistant Professor of Neurology - Mount Sinai *Neurology Residency and Headache Fellowship Alum*

Jay Dave, MD - Assistant Professor of Neurology - *Headache Fellowship Alum*

Mohamed El Shorafa, MD - Assistant Professor of Neurology and Pediatrics - *Headache Fellowship Alum*

Mark W. Green, MD - Professor of Neurology, Rehabilitation Medicine, and Anesthesiology; Director Emeritus

Jasmin Jean, MD, MPH - Assistant Professor of Neurology

Michelle Liu, MD - Assistant Professor of Neurology and Anesthesiology

Bridget Mueller, MD, PhD - Assistant Professor of Neurology; Director of Headache Research at the David S. and Ruth L. Gottesman Center for Headache Treatment and Translational Research - *Mount Sinai Neurology Residency and Headache Fellowship Alum*

Anna Pace, MD - Assistant Professor of Neurology; Director of the Headache Fellowship Program - *Mount Sinai Neurology Residency and Headache Fellowship Alum*

Alison Thaler, MD - Assistant Professor of Neurology - *Mount Sinai Neurology Residency Alum*

Marianna Vinokur, DO - Assistant Professor of Neurology

Neuro-Oncology Division

The Division of Neuro-Oncology at the Tisch Cancer Institute, a National Cancer Institute-designated Cancer Center, provides comprehensive care to patients with brain tumors. We design treatment plans for patients with primary brain tumors, including glioblastoma, CNS lymphoma, and rare primary CNS malignancies such as medulloblastoma, germinoma, and spinal cord tumors. Subspecialty consultations to medical oncology aid in determining the best treatment approaches to nervous system metastases. Novel treatment modalities are incorporated including CAR-T cells therapy, immunotherapy, and small molecular targeted therapy. Employing a multidisciplinary approach, we partner closely with colleagues across Neurosurgery, Medical Oncology, Radiation Oncology, Neuro-radiology, Neuropathology, Rehabilitation Medicine, and Palliative Care.

- PGY-2 Year rotation in inpatient Neuro-Oncology consult service at Mount Sinai Hospital, with wide exposure to primary brain tumors and neurologic complications of cancer; many residents elect to return for additional subspecialty rotation
- **A UCNS approved fellowship in Neuro-Oncology is available**

MSH Teaching Faculty:

Kevin Elmore, MD - Assistant Professor of Neurology, Neurosurgery, and Medicine; Director of the Neuro-oncology Fellowship Program; Assistant Director of Neuro-Oncology Education

Varun Jain, MBBS - Assistant Professor of Neurology, Neurosurgery and Medicine - *Neuro-Oncology Fellowship Alum*

Joshua Friedman, MD - Assistant Professor of Neurology, Neurosurgery and Medicine; Co-Director of the Mount Sinai CSF Bank - *Mount Sinai Neurology Residency Alum*

Lyndon Kim, MD - Professor of Neurology, Neurosurgery, and Medicine; Director of Clinical Research in Neuro-Oncology; Medical Director of Skull-Based and Rare CNS Malignancies

The Division of Behavioral Neurology and Neuropsychiatry

Within the Division of Behavioral Neurology and Neuropsychiatry, expert clinical care is provided to patients experiencing memory and other cognitive or behavioral symptoms. Patients are evaluated at the Barbara and Maurice Deane Center for Wellness and Cognitive Health for conditions including subjective cognitive complaints, mild cognitive impairment, dementia secondary to Alzheimer's disease, vascular disease, Lewy body disease, frontotemporal lobar degeneration, and chronic traumatic encephalopathy (CTE). In addition, the Center provides care for patients with cognitive and behavioral complaints secondary to traumatic brain injury, stroke, epilepsy, multiple sclerosis, and Parkinson's disease, among other neurologic disorders. The Deane Center features a multidisciplinary team of neurologists, neuropsychiatrists, geriatricians, neuropsychologists, and translational neuroscientists, and partners with social work, nursing, and advanced practice providers. Division faculty provide expert diagnostic assessments and management of patients referred from all over the world, and they lead investigator-initiated studies for various cognitive disorders, as well as recruit into clinical trials of the longstanding Mount Sinai Alzheimer's Disease Research Center. Division faculty also include clinician-investigators with substantial NIH and other funding, conducting mechanistic and translational research in Alzheimer's disease and other dementias.

- Translating innovative coordinated care models for dementia into the practice
- **UCNS-certified Behavioral Neurology and Neuropsychiatry Fellowship Program Available**

MSH Teaching Faculty:

Sam Gandy, MD, PhD - Professor of Neurology and Psychiatry; Division Chief, Behavioral Neurology and Neuropsychiatry; Mount Sinai Endowed Chair in Alzheimer's Research

Georges Naasan, MD, MSHCDL - Associate Professor of Neurology, and Geriatrics and Palliative Medicine; Co-Chief and Medical Director, Division of Behavioral Neurology and Neuropsychiatry; Co-Medical Director of the Barbara and Maurice Deane Center for Wellness and Cognitive Health; Director of the Behavioral Neurology and Neuropsychiatry Fellowship

Arnabh Basu, MD - Assistant Professor of Psychiatry

Eileen Callahan, MD - Professor of Geriatrics and Palliative Medicine, and Internal Medicine

Emmanuel During MD - Associate Professor of Neurology

Fanny Elahi, MD, PhD - Associate Professor of Neurology, Neuroscience, and Pathology, Molecular, and Cell-Based Medicine

Trey Hedden, PhD - Associate Professor of Neurology, Radiology, and Neuroscience; Director of Neuroimaging and Biomarker Research in Aging and Alzheimer's Disease

Sarah Levy, PhD - Assistant Professor of Neurology

Ana Pereira, MD, MS - Assistant Professor of Neurology and Neuroscience

Pediatric Neurology Division

The Pediatric Neurology Division aims to provide patient-centered, compassionate, and proactive approaches to care. Pediatric patients and their families have unique needs, which our expert faculty and nurse practitioners address through all facets of a child's neurological diagnosis. The team has expertise in caring for a variety of disorders that affect the child's brain, spinal cord, and peripheral nerves, including seizures and epilepsy, stroke and cerebrovascular disorders, headache and concussion syndromes, neuromuscular disorders, movement disorders, neurometabolic and neurogenetic disorders, autoimmune neurological disorders (encephalitis and multiple sclerosis), neonatal encephalopathy, developmental and intellectual disability, learning disorders, and autism and neurobehavioral disorders.

- High-volume and complexity inpatient and consult pediatric neurology service and twice-weekly general pediatric neurology teaching clinics provide excellent training during pediatric neurology rotations both for primary neurological disorders and for neurological complications seen in complex patients at Mount Sinai Kravis Children's Hospital (part of The Mount Sinai Hospital), including its Pediatric Intensive Care Unit (PICU) and Neonatal Intensive Care Unit (NICU)
- Comprehensive care for children with epilepsy and seizure disorders is provided in a dedicated pediatric epilepsy monitoring unit (EMU) at Mount Sinai Kravis Children's Hospital, including a pediatric epilepsy surgical program
- Unique pediatric-specific subspecialty clinics in epilepsy, headache and traumatic brain injury, autoimmune neurology and multiple sclerosis, movement disorders, neurometabolism, adrenoleukodystrophy, and spasticity/cerebral palsy
- Internationally recognized pediatric program to evaluate and treat children with AVMs, vein of Galen malformations, aneurysms, and other cerebrovascular disorders
- Collaborative clinical research into genetic etiologies of developmental disorders and epilepsy with the Mindich Child Health and Development Institute and the Seaver Autism Center for Research and Treatment
- Basic science investigation with several NIH-funded pediatric neurology research laboratories that focus on pathophysiological mechanisms of genetic dystonias, neonatal opioid withdrawal syndrome, pediatric neurometabolic disorders, and pediatric brain tumors

MSH Teaching Faculty:

Walter J. Molofsky, MD - Associate Professor of Neurology and Pediatrics; Division Chief, Pediatric Neurology

Michelle Ehrlich, MD - Professor of Neurology, Pediatrics, and Genetics and Genomic Sciences

Mohamed El Shorafa, MD - Assistant Professor of Neurology and Pediatrics - *Headache Fellowship Alum*

Jacqueline S. Gofshteyn, MD - Assistant Clinical Professor of Neurology and Pediatrics

Kevin Gurcharran, MD - Assistant Professor of Neurology and Pediatrics

David M. Kaufman, MD - Clinical Professor of Neurology and Pediatrics

Maite La Vega-Talbott, MD - Assistant Professor of Neurology and Pediatrics

Naomi Lubarr, MD - Assistant Clinical Professor of Neurology and Pediatrics

Isaac Marin-Valencia, MD - Assistant Professor of Neurology, Neuroscience, Genetics and Genomic Sciences, and Pediatrics

Hillary R. Raynes, MD - Associate Professor of Neurology and Pediatrics; Director of the Pediatric Neurology Residency Program; Pediatric Neurology Teaching Clinic

Sonam Verma, MD - Assistant Professor of Neurology and Pediatrics

Rachel Zolno, MD - Assistant Professor Neurology and Pediatrics

Neuro-Ophthalmology Division

With a large outpatient practice located on the Mount Sinai Hospital campus and multiple locations around the health system (including New York Eye and Ear Infirmary of Mount Sinai), the neuro-ophthalmology division comprises board-certified neurologists and ophthalmologists with dedicated neuro-ophthalmology fellowship training. The team manages a wide range of conditions, such as optic neuritis and other inflammatory optic nerve diseases, ptosis and double vision, idiopathic intracranial hypertension, tumors involving the visual pathway and unexplained visual loss- to name a few. Rudrani Banik, MD, Abigail Craven, MD, Valerie Elmalem, MD and Alberto DiStefano, MD are ophthalmology and neuro-ophthalmology trained; Rita Okumu, MD and Kevin Yan, MD are neurology and neuro-ophthalmology trained.

Residents in neurology can gain experience in neuro-ophthalmology through the weekly neuro-ophthalmology clinic, where they work alongside ophthalmology residents to evaluate neuro-ophthalmic patients. Additional exposure to the subspecialty may be arranged by directly contacting either Dr. Okumu or Dr. Yan.

Electives available for neurology residents:

- Major multisite NORDIC trials include the first study to establish the therapy and guidelines for management of idiopathic intracranial hypertension (IIH) and the first trial on acute neuroprotection for optic nerve injury
- New research in optical imaging of the optic nerve in intracranial hypertension, ischemic optic nerve injury, and optic neuritis, with deep learning approach to imaging swollen optic nerve; Phase II study on early intervention on ocular myasthenia gravis
- The Neuro-ophthalmology division has expanded research into artificial intelligence for analyzing visual fields, fundus photos, and optical coherence evaluations of conditions that cause swelling of the optic nerve head.

MSH Teaching Faculty:

Rudrani Banik, MD - Associate Professor of Ophthalmology

Abigail Craven, MD - Assistant Professor of Ophthalmology

Alberto DiStefano, MD - Assistant Professor of Ophthalmology

Valerie Elmalem, MD - Associate Professor of Ophthalmology

Rita Okumu, MD - Assistant Professor of Neurology, Ophthalmology, and Neurosurgery

Kevin Yan, MD - Assistant Professor of Neurology, Ophthalmology, and Neurosurgery

Neuro-Otology Division

Neuro-otology or vestibular neurology focuses on how the brain and the inner ear work together to exert precise control of eye movement, coordination, and balance. The Department of Neurology has had a distinguished history of making seminal contributions to the functional anatomic and neurophysiologic bases of eye movement control and translating these mechanistic insights to innovative treatment for vestibular disorders. The division focuses on improving the diagnosis and treatment of patients with dizziness and imbalance due to disorders affecting the ear and brain, spanning common conditions such as benign paroxysmal positional vertigo (BPPV) and vestibular migraine on one extreme, and on the other extreme rare conditions including acquired cerebellar ataxia from paraneoplastic/immune-mediated disorders and hereditary neurodegenerative conditions such as spinocerebellar ataxia, episodic ataxia, and pontocerebellar hypoplasia. There is ongoing research on functional dizziness specifically treatment for mal de débarquement syndrome and motion sickness. We are engaged in multi-center trials in improving the diagnostic accuracy in acute dizziness in the emergency room.

- Neuro-otology clinic and multidisciplinary clinical conferences on the evaluation and management of patients with dizziness, imbalance, and hearing loss
- Close collaboration with Otolaryngology, Neurosurgery, and Physical Therapy/ Rehabilitation Medicine, with clinical and research opportunities for students and residents
- Vestibular laboratory to assess eye movement controlled by the inner ear and the brain
- New treatment suite for patients who are unable to tolerate manual treatment for BPPV
- **Neuro-Otology Fellowship Program Available**

MSH Teaching Faculty:

Joanna Jen, MD, PhD - Dr. Morris B. Bender Professor of Neurology, Neurosurgery, and Otolaryngology; Division Chief, Neuro-Otology Division

Jun Maruta, PhD - Instructor, Neurology

Steven Rudolph, MD - Professor of Neurology - *Mount Sinai Neurology Residency Alum*

Ankita Tripathi, MD - Assistant Professor of Neurology - *Mount Sinai Neurology Residency and Vascular Fellowship Alum*

Sergei Yakushin, PhD - Associate Professor of Neurology

Neurogenetics Division

The Division of Neurogenetics of the Department of Neurology at Mount Sinai is focused on improving the diagnosis and management of patients with neurological manifestations from rare genetic diseases. We are dedicated to the evaluation, diagnosis, and treatment of neurogenetic disorders across the lifespan. Our multidisciplinary team includes pediatric and adult neurologists who share a special interest in neurological disorders with a strong genetic predisposition, in close collaboration with colleagues in medical genetics.

- Specialty clinics for neurometabolism and neurogenetics as well as multidisciplinary clinical conferences on the evaluation and management of patients with neurological manifestations of genetic disorders
- Close collaboration with Genetics and Genomic Sciences, with clinical and research opportunities for students and residents in neurogenetics
- Ongoing natural history studies and biobanking as well as genetic investigation
- **Neurogenetics Fellowship Program Available**

MSH Teaching Faculty:

Joanna Jen, MD, PhD - Dr. Morris B. Bender Professor of Neurology, Neurosurgery, and Otolaryngology; Division Chief, Neurogenetics

Fanny Elahi, MD, PhD - Associate Professor of Neurology, Neuroscience, and Pathology, Molecular and Cell-Based Medicine

Michelle Kaku, MD - Associate Professor of Neurology; Vice Chair of Education,

Isaac Marin-Valencia, MD - Assistant Professor of Neurology, Neuroscience, Genetics and Genomic Sciences, and Pediatrics

Susan Shin, MD - Associate Professor of Neurology; Director of Neuromuscular Fellowship Program - *Mount Sinai Neurology Residency, and Clinical Neurophysiology and Neuromuscular Fellowship Alum*

Neuro-Infectious Diseases Division

Division faculty engage in expert clinical care for a range of diseases, including nervous system complications of HIV, CNS opportunistic infections, SARS-COV-2, neurosyphilis, meningitis, and others. The division supports a large portfolio of research in neuro-HIV, which integrates clinical research and patient care, education, and community outreach, with the aim of improving the lives of people living with neurologic complications of HIV. The team's expertise includes neurology, neuropsychology, and health psychology, and is closely allied with the Manhattan HIV Brain Bank research program and the CNS HIV AntiRetroviral Therapy Effects Research (CHARTER) study, which add additional expertise in neuropathology and neuroimaging.

- One of four NIH-funded HIV Brain Banks in the U.S., with more than 25 years of continuous funding
- The largest longitudinal multidisciplinary neuro-HIV cohort in New York City, with more than 250 research visits annually
- Diverse portfolio of clinical neuro-HIV research, including projects to study autonomic dysfunction, neurodegenerative disease, cerebrovascular disease and motor dysfunction, opioid use and pain management, nervous system and immune reconstitution disease, peripheral neuropathy, impacts of early life stress on neuro-HIV disease, and sociocultural factors in the generation of cognitive and psychosocial difficulties
- Neurologic care for the ISMMS Institute for Advanced Medicine, which follows more than 10,000 people living with HIV in New York City
- **Neuro-Infectious Diseases Fellowship Program Available**

MSH Teaching Faculty:

Susan Morgello, MD - Professor of Neurology, Neuroscience, and Pathology; Division Chief, Neuro-Infectious Diseases

Desiree A. Byrd, PhD, ABPP-CN - Associate Professor of Neurology and Psychiatry

Uraina Clark, PhD - Associate Professor of Neurology; Chair, Department Diversity Committee

Jairo Gonzalez, PsyD - Assistant Professor of Neurology

Allison P. Navis, MD - Assistant Professor of Neurology; Associate Program Director for Continuity Care Education - *Mount Sinai Neuro-infectious Diseases Fellowship Alum*

Jessica Robinson-Papp, MD, MS - Professor of Neurology; Vice Chair of Clinical Research; Director of the NeuroAIDS Program - *Mount Sinai Neurology Residency and Clinical Neurophysiology Fellowship Alum*

Neuro-Palliative Medicine

MSH Teaching Faculty:

Rita "Caroline" Crooms, MD, MPH -
Assistant Professor in Neurology and Geriatrics and Palliative Medicine - *Hospice and Palliative Medicine Fellowship Alum*

Neuro-Palliative medicine is a new and growing subspecialty focused on improving quality of life for patients with serious neurologic illness, such as brain tumors, amytrophic lateral sclerosis (ALS), Parkinson's disease, dementia, cerebrovascular disease, and others. Neurologists with subspecialty training in palliative medicine provide expertise in comprehensive symptom management, communication about medical decision-making (including goals of care discussion and advance care planning), and psychosocial support. There is increasing recognition in the neurology community of the need for such specialists, as well as for research regarding palliative care outcomes for neurologic disease.

The Department of Geriatrics and Palliative Medicine at Mount Sinai has a large, renowned ACGME-accredited palliative medicine fellowship program. Several neurologists, including graduates of the Mount Sinai residency, have completed this fellowship in recent years. Rita "Caroline" Crooms, MD MPH, is a neurologist who completed the Mount Sinai palliative medicine fellowship in 2019 and subsequently joined the Department of Neurology to establish a program of neuro-palliative care research, education, and clinical care.

Since joining the faculty, Dr. Crooms has developed didactic sessions for Mount Sinai's neurology residents on palliative care topics, including strategies for leading goals of care discussions and communicating about uncertainty in neuro-prognostication.

Dr. Crooms has also established an outpatient neuro-palliative medicine practice to provide consultative service to colleagues primarily in neurology. She joins the ALS Clinic at Mount Sinai Union Square twice a month to enhance the multidisciplinary services provided there through provision of palliative care. She also has a research program with the long-term goal of improving quality-of-life outcomes for people with glioblastoma and other serious neurologic illnesses.

General Neurology Division

The mission of the Division of General Neurology is to provide high level neurologic consultation and management for the full spectrum of neurological disorders in both outpatient and inpatient settings, and to provide teaching for students and residents, as well as for patients and colleagues, in the context of ongoing clinical practice. The division includes full-time faculty with decades of prior experience in private practice, who bring this perspective and extensive expertise to the residency training experience.

MSH Teaching Faculty:

Charles B. Stacy, MD – Associate Professor of Neurology; Division Chief, General Neurology - *Mount Sinai Neurology Residency Alum*

Varun Jain, MBBS - Assistant Professor of Neurology Neurosurgery and Medicine - *Neuro-Oncology Fellowship Alum*

David J. Bronster, MD - Professor of Neurology - *Mount Sinai Neurology Residency Alum*

Benjamin Natelson, MD - Professor of Neurology

Vanessa Tiongson, MD - Assistant Professor of Neurology

The Division of Inpatient General Neurology, Quality and Safety

The mission of the Division of Inpatient General Neurology, Quality and Safety is to provide standardized, safe, high-quality care to all hospitalized patients with nonvascular neurologic conditions, while also providing exceptional training to residents and students.

The teaching faculty is composed of neurohospitalists, general neurologists and subspecialist neurologists, all of whom bring diverse experience, expertise and great enthusiasm for teaching. Through inpatient consultation and management, trainees are exposed to a wide range of neurologic conditions, as well as to systems thinking, to gain a deeper appreciation of the role of the provider in a complex care delivery system and to ensure the best possible care for every patient.

MSH Teaching Faculty:

Helen Badu Offei, MD - Assistant Professor of Neurology; Medical Director of Mount Sinai Morningside Inpatient General Neurology

Pojen Deng, MD - Assistant Professor of Neurology; Assistant Director of Quality Improvement for Neurology, Mount Sinai West and Morningside; Interim Site Neurology Clerkship Director, Mount Sinai Morningside

Elissa Fory, MD - Associate Professor of Neurology; Site Medical Director for General Neurology, Mount Sinai Queens; Site Neurology Clerkship Director, Mount Sinai Queens

Kia Gilani, MD - Assistant Professor of Neurology - *Clinical Neurophysiology/EEG Fellowship Alum*

Mark Homonoff, MD - Associate Professor of Neurology

Neurocritical Care Division

As a division within the Department of Neurosurgery, the Neurocritical Care team cares for critically ill neurological and neurosurgical patients. A dedicated team of neuro-intensivists, neuro-ICU nurses, advanced practice providers and other allied health professionals provide excellent patient-family centered care for brain- and spinal cord-injured patients across the spectrum of neurocritical care. An 18-bed, state-of-the-art, Neurosciences ICU (NSICU) opened in October 2019, having the latest integrated data management platforms, continuous EEG monitoring, and an integrated CT-suite. It leverages the principles of artificial intelligence and machine learning to help patients embark on the best possible trajectory toward recovery. To enhance family engagement, the unit has open visitation, family involvement on rounds, family zone in every room, and dedicated areas to inspire learning and research and foster collaboration among all our trainees, faculty and multidisciplinary team members. Some of the unique features of our neurocritical care division include:

- Monthly leadership meetings are scheduled for neurocritical care, stroke, and general neurology faculty, fellows, and residents to assess and improve workflows, patient safety, and communication
- The Neuro Emergencies Management and Transfers (NEMAT) program triages and manages more than 1,000 patients with neuro emergencies annually
- Participation in NIH- and industry-sponsored clinical trials
- A rigorous curriculum with monthly simulation and a biweekly multidisciplinary lectures
- Mount Sinai Critical Care Recovery Program (MSCCRP), a multidisciplinary initiative for projects such as the Post-ICU Recovery Clinic and multi-sensory in-room application (MIRA) to create a biophilic environment and "humanize the ICUs"; also a program for disorders of consciousness (DOC) in collaboration with the Department of Rehabilitation and Human Performance to maximize recovery for patients with severe brain injuries
- Fellow involvement in Global Critical Care initiatives through the Institute of Critical Care Medicine
- **Neurocritical Care Fellowship Program accredited by ACGME and UCNS**

MSH Teaching Faculty:

Neha S. Dangayach, MD - Associate Professor of Neurosurgery, Neurology, Rehabilitation and Human Performance; System Director of Neuroemergencies Management and Transfers (NEMAT); Research Director of Neurocritical Care and Recovery; Director of the Neurocritical Care Fellowship Program

Fernanda Carvalho-Poyraz, MD, PhD - Assistant Professor of Neurosurgery and Neurology

Rmneek Kaur, DO - Assistant Professor of Neurosurgery and Neurology

Gabriela Keeton, MD - Assistant Professor of Neurosurgery and Neurology; Co-Associate Director of the Neurocritical Care Fellowship Program

Dana Klavansky, MD - Assistant Professor of Neurosurgery and Neurology; Co-Associate Director of the Neurocritical Care Fellowship Program

Cappi C. Lay, MD - Assistant Professor of Neurosurgery

John Liang, MD - Assistant Professor of Neurosurgery and Neurology

Neuro-Informatics

MSH Teaching Faculty:

Benjamin R. Kummer, MD - Associate Professor of Neurology; Director of Clinical Informatics, Department of Neurology

Fred Cohen, MD - Assistant Professor of Neurology and Internal Medicine

The premise for building a clinical neuro-informatics capacity within the Department of Neurology is the belief that information technology (IT) – when applied correctly – can enhance care quality, efficiency, and value in health care. Clinical neuro-informatics, therefore, is the application of health IT processes and systems to patients with disorders of the nervous system.

In 2018, the department recruited Benjamin Kummer, MD, a vascular neurologist board certified in clinical informatics, incorporating resources to support a full-time Epic programmer. Working in partnership with an internal Epic billing/coding optimization group, an implementation specialist, and faculty across all divisions, Dr. Kummer and his team oversee changes in the Epic electronic health record to improve clinical operations in Neurology. These efforts also target increasing faculty well-being and self-efficacy with respect to clinical documentation and work credit.

Additionally, Dr. Kummer established the Clinical Neuro-informatics Program within the Department of Neurology, which serves as an academic platform for research collaboration and knowledge dissemination in the emerging field of clinical neuro-informatics. The Program comprises a central EHR data core to allow faculty affiliates and their laboratories to engage in informatics-related research projects and further the Program's mission.

Dr. Kummer also leads the new Neuro-AI elective for PGY3 and 4 residents, which exposes neurology residents to the basics of AI, machine learning, and data science applications to neurological care. His current research supports projects including developing AI/machine learning models for admission for neurological patients in the emergency department, as well as predicting CT perfusion abnormalities in acute ischemic stroke. Dr. Kummer currently oversees the Department's electronic consultation program.

Dr. Kummer is faculty in the Clinical Informatics Fellowship Training program at Mount Sinai and holds a secondary appointment in the newly established Windreich Department of Artificial Intelligence and Human Health at ISMMS, providing opportunities for neurology trainees to explore a career in clinical neuro-informatics.

"Go where you are celebrated."

Mount Sinai's Neurology Department's focus on academic excellence, scientific rigor, resident well being, and advocacy create an atmosphere that supports a diverse class with varied interests. I had the privilege of not only growing up here, running around the halls of Annenberg while my mom tirelessly worked on completing her MD/PhD here at Mount Sinai, but also of spending four amazing years learning and applying the foundations of medicine as a medical student here. Throughout that time the Neurology Department and the Mount Sinai community have shown me overwhelming support in my clinical and research interests. The mentorship, friendship, and support I have received has made choosing to continue my training here with the Mount Sinai Neurology department the best decision for me.

– Masrai Williams, MD,
Class of 2025

Mount Sinai Neurology Historic Milestones

Bernard Cohen, MD,
Late Emeritus Professor of Neurology, and the COSMOS Rotator, now in the Smithsonian Collection (National Air and Space Museum). Dr. Cohen was continuously funded by NIH and NASA for 54 years.

The Department of Neurology at The Mount Sinai Hospital is ranked **No. 2** in New York State, **No. 8** in the USA, and **No. 13** in the world on *Newsweek's "World's Best Specialized Hospitals"* 2025 list.

U.S. News & World Report® for 2024-25 ranked The Mount Sinai Hospital **No. 11** in the nation for Neurology and Neurosurgery.

Research Funding -
Department of Neurology in FY 2024

over $45 Million

in total research funding from all sources

Mount Sinai Neurology Historic Milestones

1855	The Mount Sinai Hospital is founded
1887	Bernard Sachs, MD, identifies "Tay-Sachs Disease"
1890	Neurology clinic opens on 67th Street
1900	Neurology in-patient service established
1913	First neurology ward dedicated
1914	Invented the first modern electric ophthalmoscope
1920	Neuropathology laboratory created
1923	Residency Program established
1939	EEG unit established
1956	Classified transient circulatory disturbance of the brain, which came to be known as transient global ischemia
1958	Division of Neurophysiology established
1961	Neurochemistry lab opened
1964	Parkinson's disease clinic opened
1968	Mount Sinai School of Medicine, now called the Icahn School of Medicine at Mount Sinai, began its first class of medical students
1978	First ALS clinic in the U.S. opened
1981	NASA invites vestibular researcher Bernard Cohen, MD, and lab to Moscow to fly monkeys in space on the Russian COSMOS Biosatellite
1988	Gustave L. Levy Acute Stroke Unit opened
1998	The Manhattan HIV Brain Bank is established by Susan Morgello, MD, supported by continuous NIH funding from 1998 to the present, renewed through 2028
2001	Corinne Goldsmith Dickinson Center for Multiple Sclerosis established
2008	Robert and John M. Bendheim Parkinson and Movement Disorders Center established

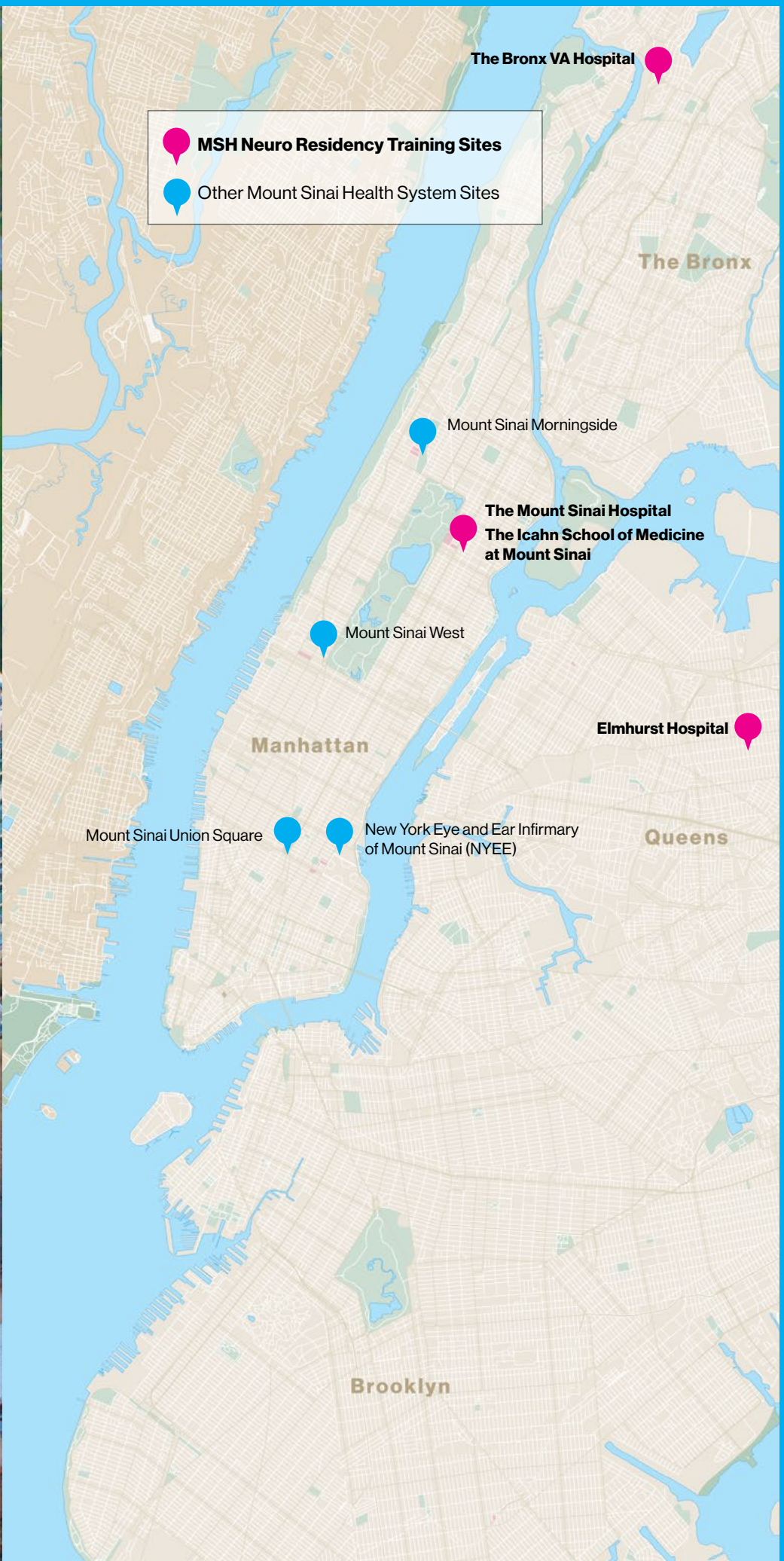
"Josephine Walter was said to be the first woman in the country to graduate from a formal house staff program when she received her Mount Sinai diploma in 1885."

Aufses, Arthur H., and Barbara J. Niss, This House of Noble Deeds The Mount Sinai Hospital, 1852-2002 New York, NY: New York University Press, 2002) 6–7.

2008	**Friedman Brain Institute established**
2009	**Center for Headache and Pain Medicine established**
2011	**Identified differences in disease progression in two subtypes of multiple sclerosis**
2013	**First hospital in New York City and the second in New York State to receive Joint Commission Comprehensive Stroke Center designation**
2013	**Mount Sinai Health System (MSHS), one of the nation's largest not-for-profit health systems, is created following the successful merger of multiple hospitals in Manhattan and Queens, and later Brooklyn and Long Island, dramatically expanding the care MSHS provides in New York City**
2015	**Barbara G. Vickrey, MD, MPH, most recent faculty member to serve as President of the American Neurological Association**
2017	**Smithsonian accepts the COSMOS Rotator to its Air and Space Museum collection**
2019	**First neurologist completes the Palliative Medicine Fellowship at Mount Sinai; Neuro- Palliative Medicine division established**
2019	**The Barbara and Maurice Deane Center for Wellness and Cognitive Health is established**
2020	**Several dozen neurology faculty along with fellows and residents served on Medicine COVID Teams during the height of the pandemic surge in New York City, spring 2020**
2020	**Neurology faculty Uraina S Clark, PhD, and Neuroscience faculty Yasmin Hurd, PhD, publish a seminal article on addressing racism and disparities in the biomedical sciences, with over 19,000 accesses to date**
2020	**Stuart Sealfon, MD, and lab published article in the New England Journal of Medicine establishing that even in military recruits under strict, supervised quarantine, asymptomatic transmission of SARS-CoV-2 occurred**
2022	**Zhenyu Yue, PhD, receives funding from the Parkinson's Foundation for Research Center investigating the diversity of dopamine nerve cells in the brain and their vulnerability in Parkinson's disease**
2023	**The David S. and Ruth L. Gottesman Center for Headache Treatment and Translational Research is established**

"After completing medical school here, I chose to stay at Mount Sinai for the people—both the patients and my future colleagues. As a leading institution in New York City, we see fascinating complex and rare diseases, and I admire how our faculty care for the individual's story just as much as the patient's pathophysiology. Whether I want to be a physician-educator, physician-researcher, a physician-advocate, or all of the above, I will be superbly prepared."

– Emma Loebel, MD, Class of 2025



"I was drawn to the Neurology program at Mount Sinai because I knew I wanted to take care of New Yorkers and provide them with the best care in the world. The breadth of subspecialties represented is astounding, and there is no time more critical to be exposed to these fields than during residency. I was hesitant to join a program that covered multiple hospitals, but have realized since that working in multiple environments challenges you to learn more and practice better. And I had the best co-residents: smart, caring, interesting, hard-working, supportive, motivated, humble, and a little quirky."

– Philip Maynard, MD,
Class of 2023
Headache Fellowship Alum

Notes

Icahn School of Medicine at Mount Sinai

The Mount Sinai Hospital
Department of Neurology
Residency and Fellowship Programs

Icahn School of Medicine at Mount Sinai
One Gustave L. Levy Place, Box 1137
Annenberg Building, Rm 14-94B
New York, NY 10029
T: 212-241-7074

https://icahn.mssm.edu/education/residencies-fellowships/list/msh-neurology-residency/neurology