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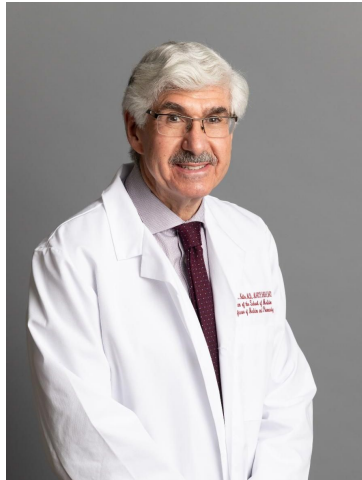
Dean's Research Newsletter, April 2022

Jerry L. Nadler

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Dear Members of the New York Medical College (NYMC) Community,

I am pleased to share with you the latest issue of the research newsletter that highlights research being conducted by School of Medicine (SOM) faculty, residents and students that provides important scientific advances and potential new therapeutic approaches.

I am particularly gratified that this issue showcases the wide array of research being conducted by our medical students and residents, both in conjunction with SOM faculty and independently. At the annual Medical Student Research Forum, a record 105 abstracts were submitted. I also had the pleasure to attend the Resident Research Day at NYC Health + Hospitals/Metropolitan earlier this month to learn about some of the important research underway by our residents from across our NYMC-sponsored residency and fellowship programs.

To further support research by our residents and fellows, I recently appointed Fawaz Al-Mufti, M.D., associate professor of neurology, neurosurgery and radiology, to the new role of assistant dean for graduate medical education research. Dr. Al-Mufti will work alongside Neil Schluger, M.D., the Barbara and William Rosenthal Chair of the Department of Medicine, in his role as associate dean for clinical and translational research and Mary Petzke, Ph.D., associate professor of pathology, microbiology and immunology, in her role as assistant dean of medical student research. Both Dr. Al-Mufti and Dr. Petzke were recently recognized with [Dean's Faculty Awards](#).

Congratulations to all our faculty, residents and students on their accomplishments. I am confident that many more advances lie ahead for the NYMC research community. Be safe and well. I am honored to work with all our students, faculty, staff and residents.

Sincerely,

Jerry L. Nadler, M.D., MACP, FAHA, FACE
Dean of the School of Medicine
Professor of Medicine and of Pharmacology

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Medical Student Research Forum Features Record Number of Participants

The enthusiasm for student research at NYMC was clearly on display

during the 26th Annual Medical Student Research Forum (MSRF) on February 3, with 105 abstracts—a record number—submitted by SOM students. Rather than filling the hallways of the Medical Education Center with their presentations, students presented their wide-ranging research projects virtually, but the quality of the research projects and the importance of the topics studied continued to shine through.

The forum gives students the opportunity to present their work in a professional setting, receive feedback from distinguished faculty members and explore research projects by their peers. NYMC faculty take on the role of judging the forum, research mentors serve as keynote speakers and students participate in and plan the forum. It takes the executive board a full year to plan the forum—coordinating 200-plus people and countless moving parts.



“The MSRF serves to recognize NYMC student research conducted at our own facilities and across the United States,” says Sonali Dadoo, a member of the Medical Student Research Committee, who helped coordinate the event. “Each year, the executive board screens hundreds of student applications to present either poster or oral presentations at the MSRF. The forum requires collaboration and support from all facets of the NYMC community, further emphasizing the role community and teamwork play in research. It’s a role we take seriously and wear proudly.”

This year’s keynote speaker was **Fawaz Al-Mufti, M.D.**, associate professor of neurology, neurosurgery and radiology and assistant dean for graduate medical education research at NYMC and medical director of neurocritical care at Westchester Medical Center (WMC), who presented “The Gift of Adversity - Lessons Learned from the Phoenix (dactylifera).” During his inspiring address, Dr. Al-Mufti shared lessons he learned since graduating from medical school in Iraq 20 years ago, including describing his experiences serving on the war-torn Iraqi-Jordanian border in 2003 as part of Doctors Without Borders. [Read the full story on the Medical Student Research Forum.](#)

Chioma M. Okeoma, Ph.D., Named Vice Chair of Research in the Department of Pathology, Microbiology and Immunology

Chioma M. Okeoma, Ph.D., has joined NYMC as vice chair of research in the Department of Pathology, Microbiology and Immunology, bringing years of experience as an award-winning interdisciplinary scientist to NYMC’s research program. Dr. Okeoma came to NYMC from the Stony Brook University Renaissance School of Medicine, in Stony Brook, New York, where she was an associate professor in the Department of Pharmacology.



“We are excited to welcome Dr. Okeoma to NYMC,” said Jerry L. Nadler, M.D., dean of the SOM. “In this new role, Dr. Okeoma will work collaboratively with Dr. Humayun Islam, [M.D., Ph.D., chair and clinical professor of pathology, microbiology and immunology] to provide leadership in basic and translational research to NYMC’s distinguished faculty of academic scientists, educators and clinicians. Given her extensive research background, we are confident that Dr. Okeoma will be a wonderful asset, enabling us to continue to advance our research and educational programs.”

Dr. Okeoma has extensive experience conducting prominent research projects, including research to define the role of bone marrow stromal cell Antigen 2 (BST-2) in breast cancer, and has been published extensively in national and international journals, including the *Journal of Virology*, *Journal of Extracellular Vesicles*, *Scientific Reports* and *Cell Death and Diseases*. [Read the full story on Dr. Okeoma.](#)

NYMC Researchers Find Clear Evidence of Long-term Neuropsychiatric Issues in Patients Recovered from COVID-19



Respiratory, cardiac, gastrointestinal, neuropsychiatric and other symptoms persisting for months after infection with COVID-19 have given rise to the term “long COVID.” A [new study](#) by NYMC and Westchester Medical Center Health System (WMCHHealth) researchers has found persistent neuropsychiatric issues—diminished focus, forgetfulness, and difficulty making decisions and multitasking—still present in some patients months after recovering from acute COVID-19 infection. The study, which was recently published in the *Journal of the Academy of Consultation-Liaison Psychiatry*, was conducted by a team of researchers made up of NYMC faculty, residents and students.

“Brain fog is a term that has been heard a lot recently. You have patients saying, ‘My thinking is fuzzy. I can’t remember things. I have words on the tip of my tongue, but I can’t think of them. I’m tired all the time.’ Prior studies indicate that when you test these patients with a neuropsychological testing battery, they really don’t show significant deficits and are more likely to be anxious and depressed,” said **Stephen Ferrando, M.D.**, the Har Esh Professor and Chairman of the Department of Psychiatry and Behavioral Sciences, who lead authored the study.

“However, in the neuropsychological testing we conducted, we found that many of these individuals were in fact not thinking clearly, and it was not just about depression or medical comorbidities but something that the virus was doing in the brain that leads to residual cognitive problems,” said Dr. Ferrando. “So, the takeaway message is that for patients who are complaining of post-COVID cognitive issues, there may very well be something there. These complaints are not imagined. They are not psychosomatic, and they need to be taken seriously.” [Read the full story on research on COVID-19 patients with neuropsychiatric issues.](#)

NYC Health + Hospitals/Metropolitan Hosts Annual Resident Research Day



Residents in the NYMC-sponsored residency programs at NYC Health + Hospitals/Metropolitan (MET) participated in the annual Resident Research Day on April 6. Three residents were chosen out of a record-setting 51 abstracts submitted to present their research. **Jaspreet Singh, M.D.**, left, emergency medicine resident, took first place for his research project to assess the use of bedside ultrasound in evaluating patients with kidney stones; **Adrienne Basa, M.D.**, center, medicine resident, was awarded second place for her wellness project to reduce burnout among residents; and anesthesiology resident **Bianca Woodruff, M.D.**, right, took third place for her patient safety and quality improvement project to improve anesthesia care for patients who had been victims of sexual violence. [Read the full story about Resident Research Day](#)

Ercument Dirice, Ph.D., Receives \$750,000 Grant from JDRF to Explore New Therapeutic Approaches for Diabetes

Ercument Dirice, Ph.D., assistant professor of pharmacology, has been awarded a prestigious \$750,000 grant from JDRF, for his study “GPR75, a novel actor in beta cell regeneration,” which will explore potential new therapeutic approaches for type 1 diabetes.

“Lack of insulin producing beta-cells is a common characteristic for both type 1 diabetes and type 2 diabetes. Compensating for beta-cell loss by stimulating their proliferation has been a hot topic in the diabetes field for decades. Several studies have reported induction of the beta-cell proliferation but none of them are used clinically yet,” said Dr. Dirice.

“Our preliminary analysis identified the protein-coding gene GPR75 as a potential candidate for regulating the increase of insulin-producing beta cells. In our research, when this receptor protein was removed, it resulted in reduced beta-cell replication, size and quantity,” said Dr. Dirice. “With this information in mind, we hypothesized that GPR75 plays an important role in beta-cell replication and/or survival and can be utilized pharmacologically to help treat beta-cell loss in diabetics.” Dr. Dirice’s studies were initiated through collaboration with Michal Schwartzman, Ph.D., chair and professor of pharmacology, and Victor Garcia, Ph.D., assistant professor of pharmacology. [Read the full story on Dr. Dirice’s research.](#)



New Imaging Technique Shows Great Promise in Predicting Outcomes of Patients with Glioblastoma

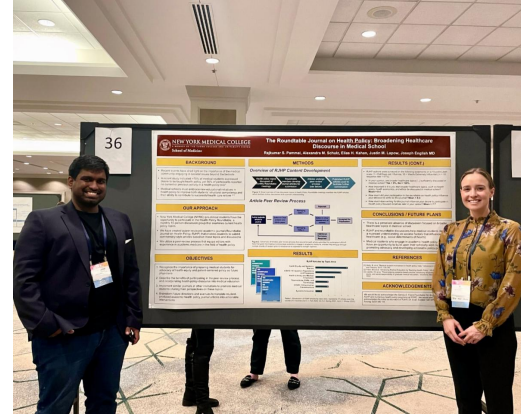


Glioblastoma (GBM) is the most common malignant primary brain tumor, with a median survival of just 15 months despite an aggressive treatment regimen. Using a new imaging technique, quantitative susceptibility mapping (QSM), to combat this highly aggressive and often fatal brain tumor has shown great promise for predicting patient outcomes in a [new study](#), recently published in the *Journal of Neuro-Oncology* that was co-first authored by **Samantha Guiry**, SOM Class of 2023.

“In its most fundamental definition, QSM is a measure of the degree of magnetization of a specific tissue when exposed to a magnetic field,” said Ms. Guiry. “For the study, we hypothesized that areas of tumor that are iron saturated have increased magnetic susceptibility. Increased iron in tumor tissue or surrounding tissue (the tumor microenvironment) has been demonstrated to correlate to tumor growth because iron is to some degree ‘tumor food.’ Therefore, finding a noninvasive way to ascertain the iron content of the tumor via imaging could provide a better idea of how aggressive the tumor is and possibly how well it will respond to therapy.”

The study is the result of research which Ms. Guiry has conducted as part of a team of researchers at the Hospital of the University of Pennsylvania (UPENN) since just before beginning medical school at NYMC, alongside her research mentor Ali Nabavizadeh, Ph.D., assistant professor of biomedical sciences at UPENN. [Read the full story on glioblastoma research.](#)

Medical Students Present at Society for Gynecological Surgeons Conference



“The AAMC GSA-CiM-OSR National Meeting was a truly valuable opportunity to both share our lessons-learned from the COVID-19 pandemic, as well as glean insights and best practices regarding student mental health and wellness, anti-racism efforts and career advising at other undergraduate medical institutions,” said Katherine Lo, SOM Class of 2024.

“Our project on the RJHP focused on how we utilized our student-run, peer-reviewed academic journal to encourage medical students to engage with the societal factors that influence healthcare. We found that these articles and the discussions that surrounded them led to a deeper, more nuanced understanding of health policy topics and may promote increased health care advocacy and involvement in policy initiatives in the future,” said Raj Pammal, SOM Class of 2023. “We are grateful for the mentorship of Dr. Joseph English, as well as support from the Sidney Frank Foundation.”

“Having entered medical school during the pandemic, we needed to get creative in order to help forge connections amongst our classmates and foster community, which is so critical to our success,” said Roy Miller, SOM Class of 2024. “We tackled this challenge by utilizing Discord as an alternative approach to socializing and communication. Our virtual NYMed Talks and specialty fair enabled us to reach a diverse array of speakers and promote career exploration amongst students, and our virtual escape rooms and drive-in movie event allowed us to have fun and build friendships in a socially distanced manner. We were ecstatic to share our efforts with institutions nationwide and bring back ideas to implement at NYMC as well.”

Grants Corner

Chhaya Aggarwal, M.D., assistant professor of medicine, received a \$377,305 grant from Natera for “Prospera Test Evaluation in Cardiac Transplant (ProTECT).”

Fawaz Al-Mufti, M.D., associate professor of neurology, neurosurgery and of radiology, received a \$102,495 grant from Stryker Neurovascular for “ASSIST Registry.”

Paul Arnaboldi, Ph.D., assistant professor of pathology, microbiology and immunology, received a \$249,135 grant from the NIH for “A Novel Mucosal Vaccine for Pseudomonas aeruginosa Infection.”

Mitchell Cairo, M.D., professor of pediatrics, medicine, cell biology and anatomy and of pathology, microbiology and immunology, received a \$151,302 grant from Alexion Pharmaceuticals for “ALXN1210-TMA-314 A Phase 3, Open-label, Single Arm, Multicenter Study of Ravulizumab in Addition to Best Supportive Care in Pediatric Participants (from 1 month to < 18 years of age) with Thrombotic Microangiopathy (TMA) after Hematopoietic Stem Cell Transplantation (HSCT).”

Tetyana Cheairs, M.D., assistant professor of pathology, microbiology and immunology, received a \$60,000 grant from Firmenich for “Detection of Thresholds for DNA Adduct Formation by Alkylbenzenes in the Turkey Egg Genotoxicity Assay.”

Chirag Gandhi, M.D., chair and professor of neurosurgery, professor of neurology and radiology, received a \$133,990 grant from Penumbra, Inc. for “INSIGHT: Investigation of Clot in Ischemic Stroke

and Hematoma Evacuation."

Joshua Goldberg, M.D., assistant professor of surgery, received a \$219,244 grant from Inari Medical for "FLow Trierer All-Corner Registry for Patient Safety and Hemodynamics (FLASH)."

Cara Grimes, M.D., associate professor of obstetrics and gynecology and of urology, received a \$35,633 grant from Reia for "Assessment of effectiveness and safety of a novel pessary for the non-surgical management of pelvic organ prolapse."

Jessica Hochberg, M.D., associate professor of pediatrics, received an \$11,000 grant from Daiichi Sankyo for "ADVL1822: A Phase 1/2, Multi-center, Dose-Escalating Study to Evaluate the Safety, Pharmacokinetics, Pharmacodynamics, and Efficacy of Quizartinib Administered in Combination with Re-Induction Chemotherapy, and as a Single-Agent Continuation Therapy, in Pediatric Relapsed/Refractory AML Subjects Aged 1 Month to < 18 Years (and Young Adults Aged Up To 21 Years) With FLT3-LTD Mutations."

David Kronn, M.D., associate professor of pediatrics and of pathology, microbiology and immunology, received a \$6,000 grant from Sanofi, Inc. for "Pompe Observational Study."

Alison Lennox, M.D., clinical assistant professor of pediatrics and of medicine, received a \$149,764 grant from Aridis Pharmaceuticals, Inc. for "A Phase 1/2a Randomized, Double-Blind, Two-Part, Dose-Ascending, Multicenter Study of the Safety and Pharmacokinetics of AR-501 (gallium citrate), Administered via Inhalation, in Healthy Adult and P. aeruginosa Infected Cystic Fibrosis Subjects" and a \$130,966 grant from Armata Pharmaceuticals for "A Phase 1B/2A, Multi-Center, Double-Blind, Randomized, Placebo-Controlled, Single and Multiple Ascending Dose Study to Evaluate the Safety and Tolerability of AP-PA02 Multi-Phage Therapeutic Candidate for Inhalation in Subjects With Cystic Fibrosis and Chronic Pulmonary Pseudomonas Aeruginosa (PA) Infection."

Jordan Milner, M.D., assistant professor of pediatrics, received a \$13,893 grant from the Pediatric Bone Marrow Consortium for "A randomized trial of low versus moderate exposure busulfan for infants with severe combined immunodeficiency (SCID) receiving TCR $\alpha\beta$ + /CD19+ depleted transplantation: A Phase II study by the Primary Immune Deficiency Treatment Consortium (PIDTC) and Pediatric Blood and Marrow Transplant Consortium (PBMTTC)."

Karen Seiter, M.D., professor of medicine, received a \$141,665 grant from Incyte Corporation/Syneos Health for "A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study of the Combination of PI3K δ Inhibitor Parsaclisib and Ruxolitinib in Participants with Myelofibrosis," a \$71,864 grant from Chimerix for "A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Dociparstat Sodium in Combination with Standard Chemotherapy for the Treatment of Newly-Diagnosed Acute Myeloid Leukemia Protocol CMX-DS-003" and a \$34,512 grant from Takeda/PPD for "A Randomized, Open-Label, Controlled, Phase 2 Study of Pevonedistat, Venetoclax and Azacitidine Versus Venetoclax Plus Azacitidine in Adults with Newly Diagnosed Acute Myeloid Leukemia Who Are Unfit for Intensive Chemotherapy."

Katrina Stidham, M.D., associate professor of otolaryngology, received a \$15,790 grant from Cochlear Americas for "Utilization of Smart Nav in the operating room for cochlear implant placement."

Libor Velisek, M.D., Ph.D., professor of cell biology and anatomy, pediatrics and of neurology, received a \$44,342 grant from Equilibre Biopharmaceuticals B.V. for "Equilibre Biopharmaceuticals Compound EQU-001 for Treatment of Infantile Spasms."

John Welter, M.D., assistant professor of pediatrics, received a \$222,053 grant from Vertex for "A Phase 3, Randomized, Double-blind, Controlled Study Evaluating the Efficacy and Safety of VX-121 Combination Therapy in Subjects With Cystic Fibrosis Who Are Heterozygous for F508del and a Minimal Function Mutation (F/MF)."

Steven Wolf, M.D., clinical professor of pediatrics, received a \$97,875 grant from Greenwich Biosciences, Inc. for "REST_LGS Validation in Long-Term Care," a \$34,008 grant from PRA Health Sciences for "A Multicenter, Open-Label, Randomized, Active Comparator Study to Evaluate the Efficacy, Safety and Pharmacokinetics of Lacosamide in Neonates with Repeated Electroencephalographic Neonatal Seizures" and a \$25,878 grant from Eisai, Inc. for "A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study with Open-Label Extension Phase of Lorcaserin as Adjunctive Treatment in Subjects with Dravet Syndrome."

NYMC Researchers Find Alternative Treatment for Middle Cerebral Artery Aneurysms Offers Positive Results

A new study by NYMC researchers on the use of the pipeline embolization device (PED) procedure to treat middle cerebral artery (MCA) aneurysms found little evidence of negative neurological outcomes, making it a good alternative for treatment of patients with complex cases of MCA that may not respond well to traditional methods of coiling and clipping.

“While PED has long been used to treat internal carotid artery aneurysms, there has been more hesitancy to use it to treat MCAs over concerns that it could potentially block off or ‘jail’ smaller vessels in the path of the device and trigger thromboembolic events in areas that were not meant to be targeted,” said **Charanpreet Sasan**, SOM Class of 2024, who worked alongside her mentor, Justin Santarelli, M.D., assistant professor of neurosurgery, who specializes in endovascular surgery, and other NYMC faculty for the study.



“In the majority of the cases, we found that the patients did not experience jailing and all the patients remained neurologically intact after the PED procedure,” said Ms. Sasan. “In patients that did experience jailing, there were no deficits or delays in perfusion as collateral circulation developed to take over any potential compromised blood flow territory. These findings indicate that PED is a safe tool to use for the management of complex MCA territory aneurysms when traditional methods of coiling or clipping may not be options.” [Read the full story about the study on PED procedure.](#)

Medical Student Andrew Grant Conducts Research on Genetic Basis of Disabilities



Throughout his time in medical school, Andrew Grant, SOM Class of 2023, has continued his involvement in a variety of research projects focusing on the genetic basis of disabilities as part of a team of researchers at Massachusetts General Hospital and the Broad Institute in Boston. The research is part of the larger National Institutes of Health (NIH)-funded resource project Clin Gen, which seeks to build a genomic knowledge base to improve patient care by developing infrastructure and standards and aggregating and sharing relevant data about genes, genetic conditions and the genetic variants that cause them.

“With the recent advances in sequencing and analysis of genetic information as well as the development of gene therapies, I understood that genetics was going to be an integral part of all medicine soon,” said Mr. Grant. “Therefore, I chose the position at Massachusetts General, and later the Broad Institute, to embrace an opportunity to fill a gap in my knowledge and learn as much about clinical genetics as possible to inform whatever specialty I chose to go into after graduating from medical school.”

Two of the research projects which focus on hearing loss have already been published and a third focused on intellectual disability (ID) and autism has been accepted for publication. [Read the full story on research into the genetic basis of disabilities.](#)

Department of Obstetrics and Gynecology Holds Resident Research Day

The Department of Obstetrics and Gynecology hosted their annual Resident Research Day on April 7 with guest speaker Erika Levi, M.D., associate professor and associate residency program director and director, Kenneth J. Ryan Resident Training Program in Family



Planning at Albert Einstein College of Medicine-Montefiore Medical Center, who spoke on the “Immediate Postpartum Initiation of IUDs and Implants.”

Five obstetrics and gynecology residents were chosen to present at the event. Ultimately, Julia Youssef, M.D., was awarded first place for “Comparison between Two Treatment Strategies of Term Neonates Exposed to Maternal Chorioamnionitis” and Alborz Borjiam, M.D., was awarded second place for “Telemedicine Use for

Postpartum Depression Screening during the COVID-19 Pandemic.”



Faculty and Student Publications and Accolades

Jillian Hochfelder, M.D., assistant professor of medicine, and **Subhadra Siegel, M.D., M.A.**, assistant professor of pediatrics, published “[Polyethylene glycol and polysorbate testing in 12 patients before or after coronavirus disease 2019 vaccine administration](#)” in *Annals of Allergy Asthma & Immunology*.

Hiroshi Sogawa, M.D., associate professor of surgery, **Gregory Veillette, M.D.**, assistant professor of surgery, **Devon John, M.D.**, assistant professor of surgery, **Nandita Singh, D.O.**, clinical assistant professor of medicine, **Daniel Glicklich, M.D.**, professor of medicine, **Seigo Nishida, M.D., Ph.D.**, clinical professor of surgery, and **Thomas Diflo, M.D.**, professor of surgery, published “[Is Compensation Prediction Score Valid for Contralateral Kidney After Living-Donor Nephrectomy in the United States?](#)” in *Transplantation Proceedings*.

Rajkumar Pammal, SOM Class of 2023, and **Justin Lapow**, SOM Class of 2023, published “[Publication Rates of Abstracts Presented at Pediatric Orthopaedic Society of North America Meetings Between 2013 and 2016](#)” in the *Journal of Pediatric Orthopaedics*.

Paul Lucas, Ph.D., research associate professor of pathology, microbiology and immunology, **David Asprinio, M.D.**, chair and clinical professor of orthopaedic surgery, and professor of pharmacology, and **Robert Cristofaro, M.D.**, clinical associate professor of orthopaedic surgery, published “[Range of motion following percutaneous fixation of pediatric supracondylar humerus fracture is independent of anterior osseous fragment resorption](#)” in the *Journal of Pediatric Orthopaedics-Part B*.

Mala Sharma, M.D., assistant professor of medicine, **Pragya Ranjan, M.D.**, clinical assistant professor of medicine, **Joshua Goldberg, M.D.**, assistant professor of surgery, **Steven Lansman, M.D., Ph.D.**, interim chair and professor of surgery, and **Daniel Spevack, M.D.**, clinical professor of medicine, published “[Variations in Mitral Valve Leaflet and Scallop Anatomy on Three-Dimensional Transesophageal Echocardiography](#)” in the *Journal of the American Society of Echocardiography*.

Wilbert Aronow, M.D., professor of medicine, **Julio Panza, M.D.**, professor of medicine, and **Srihari Naidu, M.D.**, professor of medicine, published “[Differences in Short-Term Outcomes and Hospital-Based Resource Utilization Between Septal Reduction Strategies for Hypertrophic Obstructive Cardiomyopathy](#)” in the *Journal of Invasive Cardiology*.

Rubaya Yeahia, SOM Class of 2022, **Javin Schefflein, M.D.**, clinical assistant professor of radiology, **William Gomes, M.D., Ph.D.**, associate professor of radiology, **Fawaz Al-Mufti, M.D.**, professor of neurology, neurosurgery and of radiology, and **Edwin Gulko, M.D.**, assistant professor of radiology, published “[Brain MRI findings in COVID-19 patients with PRES: A systematic review](#)” in *Clinical Imaging*.

Kevin Clare, SOM Class of 2023, **Eric Feldstein, M.D.'21**, **Christeena Kurian, M.D.**, clinical assistant professor of neurology, **Andrew Bauerschmidt, M.D.**, assistant professor of neurology and of neurosurgery, **Gurmeen Kaur, M.B.B.S.**, assistant professor of neurology and of neurosurgery, **Justin Santarelli, M.D.**, assistant professor of neurosurgery, **Stephan Mayer, M.D.**, professor of neurology and of neurosurgery, **Chirag Gandhi, M.D.**, chair and professor of neurosurgery and professor of neurology and radiology, and **Fawaz Al-Mufti, M.D.**, professor of neurology, neurosurgery and of radiology, published "[Safety and Efficacy of a Novel Robotic Transcranial Doppler System in Subarachnoid Hemorrhage](#)" in *Scientific Reports*.



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