1931 MIR officially opens with staff of four radiologists and one physicist.

1933 First residents — Allan B. Phillips and William Y. Burton — are accepted.

1937 First laminograph (developed in 1936 at MIR) used to examine World Series Champion pitcher Paul “Daffy” Dean; considered earliest recorded example of sectional imaging used to assess sports-related musculoskeletal injury.

1941 Cyclotron constructed on Danforth Campus is first dedicated to producing isotopes for medical and biological research.

1942 U.S. government commandeers cyclotron to produce some of world’s first plutonium; in the end, half of Manhattan Project’s plutonium comes from WashU.

1950 Then director Hugh Wilson appoints radiophysicist and future PET pioneer Michel Ter-Pogossian, forever changing the history of MIR.

1954 First pediatric radiology program established at MIR.
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<th>Year</th>
<th>Event</th>
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<td>1963</td>
<td>MIR builds first cyclotron in U.S. on a medical campus and second in the world dedicated to medical research.</td>
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<td>1964</td>
<td>Newly appointed MIR director and neuroradiologist Juan Taveras establishes first official subspecialties by dividing faculty into six groups based on local anatomy.</td>
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<td>1970s</td>
<td>PET invented by MIR researchers Michael Welch and Michel Ter-Pogossian.</td>
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<td>1972</td>
<td>Neuroradiology and Ben Mayes come together to become MIR’s first fellowship.</td>
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<td>1974</td>
<td>CT scanner — one of first six in U.S. — acquired by MIR.</td>
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<td>1976</td>
<td>One of first five mammography units in U.S. arrives at MIR.</td>
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<td>1980s</td>
<td>Along with two colleagues, MIR radiologist Michael Vannier publishes first 3D reconstruction of single CT slices of the human head.</td>
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<td>1984</td>
<td>MIR researchers develop fluoroestradiol (FES), the first radioactive form of estrogen used as a PET imaging agent for detecting breast cancer.</td>
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1990s

1990s MIR develops widely adopted criteria for diagnosing pulmonary emboli

1992 Newsweek publishes “Decade of the Brain,” an article highlighting neurologist and radiology professor Marcus Raichle’s PET research and development of nearly all existing techniques for mapping the brain

1992 MIR works with CTI PET Systems to develop some of the first whole-body PET imaging techniques

2000s

2002 Quadriplegic actor Christopher Reeve’s treatment regimen — designed by WashU faculty with imaging studies performed by MIR — results in some motor function restoration

2004 MIR expands resident total to 72, making it largest program in U.S.

2008 Mark Mintun, director of the Center for Clinical Imaging at MIR, uses PET imaging to detect Alzheimer’s disease before clinical symptoms appear

2010s

2010 MIR becomes home to the Human Connectome Project

2015 “Cancer Goggles,” invented by Optical Radiology Lab director Samuel Achilefu, allow doctors to see cancer cells during surgery

2019 Your residency training begins
# A Look Inside

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In 2014, Dr. Richard L. Wahl was named director of MIR, ushering in a new era of leadership.
Welcome to Mallinckrodt Institute of Radiology

As Mallinckrodt’s director and a graduate of the residency and fellowship programs, I know firsthand why MIR is the best available training experience to launch your career in radiology.

Most of you know about our diverse and interesting caseloads, exceptionally advanced imaging equipment, unique opportunities for clinical and laboratory research, and world-renowned radiologists. We also provide exclusive service to nationally ranked Barnes-Jewish and St. Louis Children’s hospitals, as well as a chance to collaborate with other specialists from Washington University School of Medicine, one of the top 10 medical schools in the country. And if that’s not enough, there’s our modern, “future-focused” medical campus which is surrounded by some of the most vibrant, thriving — and affordable — communities in the U.S.

Please accept my invitation to explore our programs, tour our facilities, and meet our faculty and trainees. Once you do, you’ll understand why Mallinckrodt is the premier destination in radiology training.

Richard L. Wahl, MD
Elizabeth E. Mallinckrodt Professor of Radiology
Director, Mallinckrodt Institute of Radiology
Head, Department of Radiology
Washington University School of Medicine
After more than a decade at the helm of one of the most respected radiology programs across the globe, Jennifer Gould, MD, knows a thing or two about what makes for a successful residency. As with all MIR program directors, Gould’s accomplishments in the field of radiology are too numerous to mention but here are a few highlights:

- Diagnostic Radiology Residency Program Director since 2006
- Volunteer for the American Board of Radiology since 2004, serving as a board examiner for the oral examinations in diagnostic radiology and interventional radiology, as well as serving on the Core Exam writing committee for Interventional Radiology
- Volunteer for the ACGME with roles in writing the Milestones for Diagnostic Radiology and Interventional Radiology, as well as serving on the Advisory Committee for the Interventional Radiology residency

**Education**

- **2002–2003** Vascular and Interventional Radiology Fellow
  Mallinckrodt Institute of Radiology, Washington University
- **1998–2002** Diagnostic Radiology Resident
  Mallinckrodt Institute of Radiology, Barnes-Jewish Hospital
- **1997–1998** Internal Medicine Intern
  Barnes-Jewish Hospital
- **1993–1997** MD Washington University School of Medicine
- **1989–1993** BA Cornell University
Diagnostic Radiology Residency Program

Mallinckrodt’s Diagnostic Radiology Residency Program consistently ranks among the top three in the country. At MIR, you’ll train alongside globally recognized radiologists who are dedicated to clinical care, education and your personal success. Below are just a few of the reasons our diagnostic radiology residency is a national standout:

Faculty-to-Resident Ratio
Our one-to-one faculty to resident ratio provides unmatched clinical training in interpreting imaging studies and performing image-guided procedures. Face-to-face readout is used on all services so residents get personal feedback on all reviewed cases.

Class Size
With an average class size of 16, residents have flexibility with vacation time, rotations and on-call scheduling.

Hands-On Training
We provide hands-on training to build graduated competence. Residents rotate through three hospitals during training: Barnes-Jewish Hospital, St. Louis Children’s Hospital and Barnes-Jewish West County Hospital, training alongside globally recognized radiologists who are dedicated to their personal success.

Daily Education
Morning rotation-specific conferences and core training noon lectures expose our residents to an extensive and diverse caseload. Both facilitate the development of a strong analytic approach to the interpretation of exams, as well as the ability to perform image-guided procedures.

Research & Educational Projects
Mallinckrodt offers countless opportunities to participate in mentored radiology research that results in national meeting presentations and publication in major journals. First and second year residents are reimbursed for one meeting each academic year, up to a maximum of $1,500. MIR will reimburse third and fourth year residents for more than one meeting each academic year, up to a maximum of $2,000.

Contact
Lynn Lammers | llammers@wustl.edu | 314.362.2978

NRMP Matching Number: 1353420A0
Research Residency Track

Mallinckrodt Institute of Radiology has a robust, extensive and collaborative research program that includes seven laboratories and nine research support facilities. Up to three highly motivated individuals interested in a career in academic radiology are admitted to the Research Residency Track each year.

**Combined Training** This specialized track, which combines training in general diagnostic radiology with dedicated time in research, provides up to 48 weeks of full-time research with one or more faculty mentors. The remaining time is spent rotating on clinical services preparing to be a clinical radiologist. Research residents typically complete the first year of clinical training before starting any dedicated research time.

**Funding** Mallinckrodt received $23.9 million in externally sourced research revenue in fiscal year 2017. In addition, research residents have the opportunity to apply internally to participate in a newly funded training program —Training OPPortunities in Translational Imaging Education and Research (TOP-TIER). TOP-TIER’s focus is on training clinical scientists in translational imaging, research, innovation and entrepreneurship.

**Unique Support System** Research residents are given guidance toward the selection of a research mentor, as well as information about the multiple laboratories, facilities, infrastructure and pilot support available at Washington University.

**Advanced Equipment** Mallinckrodt has a total of eight dedicated research MRI scanners and five dedicated research PET scanners on campus. These include two 3T Prismas, a 3T Trio, and a simultaneous Siemens PET/MR whole body system. The first 3T Siemens Vida MR system in the U.S. was installed in August 2017, and the Trio will be converted to a PrismaFit in early 2018. In addition, four cyclotrons along with an equipped Radiological Chemistry Laboratory (RCIL) supply both research and clinical radiotracers for the university.

**How to Apply** This track is offered through the NRMP match under a training program number (see below) separate from the diagnostic radiology training program. Interested applicants are encouraged to also apply to the Diagnostic Radiology Residency Program.

**NRMP Matching Number:** 135420A1
EXAMS AND PROCEDURES (FY 2017)
828,019 diagnostic exams
14,512 nuclear medicine exams
51,688 interventional radiology procedures
Combined Diagnostic Radiology/Nuclear Medicine Residency Track

Mallinckrodt has long been recognized for advancing the scope and practice of nuclear medicine, as well as training individuals for careers in academic and private practice nuclear medicine.

Up to two residents from each diagnostic radiology residency class will be accepted for a specialized training track that will enable graduates to obtain dual certification in diagnostic radiology (American Board of Radiology) and nuclear medicine (American Board of Nuclear Medicine). Candidates are selected during or by the end of the second year of residency training and, depending on a resident’s interest, both four and five-year options are available.

Four Year Training This option allows 16 months of training in nuclear medicine during a four-year diagnostic radiology residency. In the first three years, residents complete the same rotations as the other diagnostic radiology residents. In the fourth year, residents in the combined track focus on nuclear medicine. The four-year program is best suited for individuals who are interested in practicing clinical nuclear medicine.

Sean D. Pierce, MD, is chair of the Department of Radiology at Hackensack University Medical Center in Hackensack, New Jersey, and a partner in the Hackensack Radiology Group. As he serves both the physicians and patients at New Jersey’s largest hospital, Pierce draws on lessons he learned during his residency at Mallinckrodt Institute of Radiology.

“When I came for my visit and saw Mallinckrodt, it was eye opening. Frankly, it was a little like Disneyland. Seeing a multistory building dedicated strictly to radiology was extraordinary. The amount of resources dedicated to this one specialty was incredibly impressive to someone entering the field.”
Five Year Training The five-year option provides up to 28 months of training in nuclear medicine, with a minimum of 24 months required. This includes completing a four-year diagnostic radiology residency, with year four training focused on nuclear medicine, followed by a one-year nuclear medicine residency/fellowship. Some of the time spent in nuclear medicine is devoted to research in the field. This pathway is most suited for individuals who are interested in practicing academic nuclear medicine.

Early Specialization in Interventional Radiology (ESIR)

Up to three residents will be selected from each residency class for ESIR status. ESIR residents focus on interventional radiology during their fourth year of residency training, completing an ICU month, as well as at least eight IR and IR-related rotations. The balance of the year will feature diagnostic radiology rotations, including nuclear medicine and breast imaging, to meet training requirements. ESIR residents easily meet requirements for advanced placement in an independent IR residency.

Cynthia K. Rigsby, MD, FACR, is a professor of radiology and pediatrics at Northwestern University’s Feinberg School of Medicine and a pediatric radiologist at the Ann & Robert H. Lurie Children’s Hospital of Chicago (formerly Children’s Memorial Hospital). Rigsby serves as vice chair of the medical school’s Department of Radiology and as division head of body imaging.

“From growing up at Mallinckrodt, I have a thirst for knowledge and the desire to teach. I had a wonderful mentoring program available at Mallinckrodt; I’ve tried to utilize that to figure out how I can mentor others.”

ALUMNI Spotlight

Class of ‘95
Curriculum: Years 1, 2 and 3

Mallinckrodt residents in all programs and tracks spend the first three years rotating through a core curriculum. Our goal is to progressively build competence, turning our residents into well-rounded radiologists, skilled in all areas of diagnostic radiology and confidently prepared to take board exams. Core rotations include:

**Body Computed Tomography** During their first rotation, residents quickly become familiar with normal cross-sectional anatomy of the chest, abdomen and pelvis, and develop an understanding of pathologies seen on CT. In subsequent rotations, they refine their knowledge of diagnoses frequently found on CT and become proficient with advanced CT protocols.

**Body Magnetic Resonance** Consistently one of our most popular rotations, this busy clinical service covers all aspects of body MRI and body MRI angiography. Residents experience a high-volume body-MRI practice with a mix of thoracic, abdominal, and pelvic MRI and MRA imaging. PET/MRI exposure is a feature of our program.

**Breast** Our breast imaging facility is co-located with a breast surgical practice, providing residents the opportunity to train and work alongside attending radiologists and breast surgeons. Residents learn how to interpret diagnostic and screening mammograms (including tomosynthesis), receive training in breast MRI, and perform sonographic and stereotactic breast biopsies and needle localizations.

**Cardiac** Our cardiac imaging section — one of the largest in the nation — is staffed daily by a cardiac radiologist, and a radiology resident dictates all cases. Residents have access to cath and echo images, and every cardiac CT and MRI is physician monitored. As a result, residents become proficient in protocoling studies and complex post-processing of images.

**Chest** The cardiothoracic imaging rotation covers the review of chest radiographs for Barnes-Jewish Hospital, which includes its medical, surgical, neurosurgical and cardiothoracic intensive care units. With world-class pulmonary and lung transplant programs, and cardiac and thoracic surgery services, this rotation exposes residents to a wide variety of diagnoses, from routine to rare and complex.
Emergency/Trauma First-year residents rotate through the acclaimed Charles F. Knight Emergency Trauma Center at Barnes-Jewish Hospital (BJH) for hands-on experience. The center is a regional Level 1 trauma center that sees more than 95,000 patients annually. Second-year residents have independent call for both BJH and St. Louis Children’s Hospital, the latter exposing them to a range of standard and emergency pediatric cases. Faculty backup is available to review images from home or come in when needed, and each shift ends with a face-to-face readout with subspecialty attendings.

Gastrointestinal/Genitourinary Residents perform all fluoroscopic exams with subspecialist attending involvement, as well as a wide variety of studies on inpatients and outpatients. The former includes swallow studies, barium esophagrams, small bowel studies, barium enemas, hysterosalpingograms, and retrograde urethograms. Remote faculty viewing of the fluoro screen in the reading rooms provides opportunities to independently perform GI contrast examinations.

Interventional Working one-on-one with attending radiologists, residents are the primary operators on procedures. Residents gain experience from clinical training and large volume exposure to general body interventional procedures, including percutaneous organ drainage, arterial embolizations, and routine and complex central venous access.

Name: Jimmy Xu, MD
Hometown: The Bronx, NY

Teachable moment:
My first week of my first rotation of residency was on GI/GU and I completely flubbed a study. Instead of a reprimand my attending said, “It’s fine. This happens to everyone. Now go and kick butt on the next one.”

Favorite meal:
Coming from New York, ethnic food is big for me and surprisingly St Louis has a pretty lively scene. My favorite Chinese food is Chef Ma’s Chinese Gourmet. For an appetizer I’d recommend the chicken wings.

Biggest surprise:
Everyone is so nice. Seriously. Even the not nice people are nice. There’s a collegial atmosphere with other residents and staff. In the reading room most stuff go by their first name and your opinions are valued starting on day one.

Why MIR:
You become a radiologist by doing radiology. Mallinckrodt has the volume so you not only see the normal bread and butter stuff but also the rare cases, so you become comfortable with the depth and breadth of radiology.
Musculoskeletal In this multi-modality rotation, residents interpret radiographs, ultrasounds, CTs and MRIs of patients with a wide range of bone and joint disorders, including orthopedic, neoplastic, metabolic, rheumatologic and infectious abnormalities. In addition, an elective musculoskeletal procedure service provides hands-on instruction for performing image-guided diagnostic and therapeutic interventions for a variety of musculoskeletal conditions.

Neuroradiology Beginning with the first rotation, residents read all modalities in neuroradiology and participate in daily lectures and case conferences dedicated to neuroradiology. In addition to performing fluoroscopically-guided spinal procedures and diagnostic cerebral angiography, residents have the opportunity to participate in interpretation of advanced imaging techniques, including diffusion tractography, functional MRI and PET/MRI.

Nuclear Medicine While on service residents benefit from a unique volume of cases, particularly in the areas of cardiac and PET, as well as exposure to pediatric nuclear medicine. The busy service handles a full complement of imaging, including PET/CT, SPECT, SPECT-CT and planar imaging.

OB/GYN Ultrasound Senior residents, in collaboration with OB/GYN faculty and house staff, learn obstetric ultrasound for the first, second and third trimesters. Residents spend time at Barnes-Jewish Hospital and Missouri Baptist Hospital.

Name: Marina Mityul, MD
Hometown: Jacksonville, FL
Teachable moment: The first time I did a joint injection on a patient who came in with a wheelchair but was able to walk out of the department.
Favorite meal: Smoked wings at the Shaved Duck.
Favorite outdoor activity: Yoga in Tower Grove Park.
Biggest surprise: How much I learn on call.
Why MIR: I was a WashU medical student and loved the faculty and trainees I met on my rotation. The attendings are world class researchers and teachers but are very down to earth, go by their first names and always have your back. The culture attracts really phenomenal people and provides incredible opportunities no matter where you want to take your career.
Pediatric Residents learn pediatric imaging from full-time pediatric radiologists at St. Louis Children’s Hospital. To supplement the daytime experience, residents take radiology call at the hospital during night float and senior call experiences.

Rad-Path All residents have an opportunity to attend the American Institute for Radiologic Pathology, with Mallinckrodt paying the tuition and providing a stipend to defray costs of travel and lodging. Residents who choose not to go are given a four-week rad-path study period at MIR.

Ultrasound The ultrasound service performs most of the image-guided biopsies and aspirations for Barnes-Jewish Hospital, and nearly every patient who comes through this service is scanned by a resident after the sonographer completes the initial evaluation. Residents learn image interpretation and scanning techniques on this busy, hands-on rotation.

Vascular Ultrasound Senior residents learn vascular imaging of the extremities and carotid arteries in the vascular surgery section’s ultrasound laboratory.

Barnes-Jewish West County Hospital Located in west St. Louis County, this 113-bed facility has a busy inpatient and outpatient radiology service staffed by Mallinckrodt faculty. Residents spend one to two months over their four years of training in this facility, primarily rotating on abdominal imaging, musculoskeletal and cardiothoracic services.
Curriculum: Year 4

During their final year of training, residents in the diagnostic radiology residency who are not doing an ESIR, research or diagnostic/nuclear medicine track have the option of completing one or more selective rotations.

Designed by the subspecialty sections, there are selectives in abdominal radiology, cardiothoracic radiology, musculoskeletal radiology, breast radiology, interventional radiology, pediatric radiology, neuroradiology, and nuclear medicine. Interdisciplinary options, such as informatics, oncology and general radiology, also exist.

These “mini-fellowships” vary from six to 12 weeks in length, though longer selectives can be arranged if the schedule allows. Selectives can often be tailored to focus on a resident’s area of interest. Features vary but often include increased autonomy, teaching opportunities, and academic time for research or quality improvement projects. The year is rounded out with required time in nuclear medicine and breast imaging, as well as the assigned call and night float opportunities.

Bonnie N. Joe, MD, PhD, is a professor in residence and chief of breast imaging in the Department of Radiology and Biomedical Imaging at the University of California, San Francisco. The connections she forged during her residency at MIR remain strong and have brought her back to campus not only to teach but to learn as well.

“I was struck by the Mallinckrodt “tower” being in the center of the hospital. It visually makes the point of how important radiology is to the medical center and embodies our specialty’s central role.”

Class of ‘02

ALUMNI Spotlight

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Some residents use allotted time in the fourth year to focus on one or more of the following shorter alternatives:

**Global Radiology Rotations** MIR’s local chapter of RAD-AID International helps foster an interest in global health among residents. In 2016, the chapter established a collaboration with the Instituto de Cancerología (INCAN) in Guatemala City, Guatemala. By sharing expertise with doctors at INCAN, the MIR team helped provide the training and tools necessary to improve the medical care patients receive on a daily basis. In addition to an ongoing partnership with INCAN, MIR’s Global Radiology Committee is working to expand opportunities through relationships with facilities in other countries and underserved areas of the local community.

**Research** Opportunities for research abound at Mallinckrodt. Residents involved in projects that require dedicated blocks of research time are encouraged to pursue a research elective that provides uninterrupted time to work on mentored projects.

**Teaching Elective** Select residents provide radiology-anatomic correlative training for first-year medical students in the medical school’s Gross Anatomy course through lecture and small group teaching at the cadaver.
Interventional Radiology (IR) Residency Program

Gretchen Foltz, MD, arrived at MIR in 2013 as an attending, following a diagnostic radiology residency at the University of North Carolina and an IR fellowship at Northwestern University. She brought with her a wealth of knowledge and fresh thinking about the field of IR and IR training. In 2016 she was named director for the then new IR residency program at Mallinkrodt, one of the first of its kind. Foltz, who earned her bachelor’s degree in biomedical engineering from the University of Wisconsin-Madison, has active roles in the Society of Interventional Radiology and the American Board of Radiology.

The IR specialty is comprised of unique expertise in diagnostic imaging, image-guided procedures and patient care. And, with more than 50,000 image-guided procedures performed each year, there’s more than enough volume for all trainees. Countless research opportunities, an active IR outpatient clinic, and busy inpatient admitting and consultation services round out the experience. Graduates leave prepared for careers in academic or private practice IR.

Residents work with more than a dozen faculty who have subspecialty training in IR, learning a wide range of adult and pediatric procedures including: venous and percutaneous organ access, angioplasty/stenting, thrombolysis, venous recanalization, IVC filter placement/retrieval, vein ablation, fibroid embolization, trauma, transarterial chemoembolization, radioembolization, tumor ablation, TIPS, balloon-occluded retrograde transvenous obliteration and more.
Integrated IR Residency Program
Mallinckrodt Institute of Radiology currently has integrated IR residents in years one, two and three of their training. In addition, the program boasts residents matched through the 2017 match for a 2018 – 2019 residency start.

Acceptance MIR accepts two applicants per year, matched into the program from medical school. Graduates will be board-certified in diagnostic and interventional radiology.

Five-Year Program Following a yearlong clinical internship, residents receive three years of diagnostic radiology training alongside the diagnostic radiology residents and two years of IR training under the thoughtful supervision of the program’s director. The last two years of the IR residency focus on image-guided interventions and invasive diagnostic procedures with additional rotations through the surgical intensive care unit and IR-related areas.

Rotations Residents rotate through three hospitals during training: Barnes-Jewish Hospital, St. Louis Children’s Hospital and Barnes-Jewish West County Hospital, receiving comprehensive exposure to the full scope of diagnostic and interventional radiology.

Independent IR Residency Program
MIR has applied for four residency positions in an Independent Interventional Radiology Residency. The planned training experience, which will be available in 2020–21, will largely mirror the final two years of the Integrated IR Residency program. Eligible candidates will be individuals who have completed a four-year diagnostic radiology residency with consideration given both to applicants who have completed an ESIR (Early Specialization in Interventional Radiology) year and those who have not.

Program Coordinator/Contact
Evie Hennessey | hennesseye@wustl.edu | 314.787.5847

NRMP Matching Number: 1353416A0
Call duty begins the second year of training when residents are fluent in the fundamentals of radiology. At least three radiology residents share on-call responsibilities in the hospital from 5:00 p.m. to 7:00 a.m. on weekdays, and around the clock on weekends and holidays. Residents take call for three years with a break in the months preceding the American Board of Radiology Core Examination. A night float system is used for most overnight call duty, and additional call shifts are scheduled to manage the busy periods in the evenings and during the day on weekends.

Mallinckrodt’s large residency and individual class size keeps the volume of call shifts manageable and easily allows for call switches. Residents cover the emergency department and hospital, providing interpretation for imaging studies performed after hours without on-site attendings. When needed, on-call faculty and fellows are available for phone consultation and teleradiology image review. Residents issue preliminary dictations on all studies they review while on call. They have face-to-face readouts in the morning with subspecialty faculty who provide feedback on their interpretations.

Name: Veer Shah, MBChB
Hometown: Nairobi, Kenya
Favorite spot: Forest Park ... acres of green space.
Teachable moment: Diagnosing subtle osseous metastatic disease of unknown primary on a plain lumbar radiograph done for back pain. Even simple imaging can yield a lot of information.
Favorite outdoor activity: Running in Forest Park.
Favorite meal: Grilled cheese and a chocolate malt at The Fountain on Locust.
Biggest surprise: How everyone, including staff and residents, interact on a first-name basis.
Conferences

**Daily Noon Conference** The noon-hour conference, given daily by a subspecialty-trained faculty radiologist, is designed specifically for resident education. There is frequent use of audience response systems, and each conference is digitally recorded and available for review by trainees.

**Teaching Conference** Often case-based, this daily teaching conference is given on nearly every rotation, providing residents with additional didactic teaching and the opportunity to practice taking cases in an unknown format. Residents in all years participate. For example, a first-year might identify the findings in a case, followed by a more senior resident synthesizing those findings into a differential diagnosis. A faculty member rounds out the discussion with additional findings, diagnoses and teaching points.

**Review Conferences** Mallinckrodt Institute of Radiology prepares residents for the American Board of Radiology Core Examination and independent practice by hosting its own internal case review conference series.

Radiology Learning Center

The Radiology Learning Center is a two-level facility designed specifically for use by Mallinckrodt residents. The 24-hour center features a library and small kitchen on the lower level, an upper level lounge, and a computer lab with access to all necessary institutional programs. Access to StatDX™, eAnatomy™ and RADPrimer™ is currently available, and additional resources are regularly added based on resident recommendation and review.

The center’s library of radiology textbooks are reserved specifically for use by trainees in the program. Residents can check these out for rotation self-study, board review, etc. Access to Washington University School of Medicine’s Becker Medical Library, which has a substantial number of relevant radiology textbooks and e-books, is also available to MIR residents.
Alumni Spotlight

Sean D. Pierce, MD | Hackensack, New Jersey | p11
Cynthia K. Rigsby, MD, FACR | Northwestern University, Chicago | p12
Bonnie N. Joe, MD, PhD | UCSF, San Francisco | p17
Perry J. Pickhardt, MD | University of Wisconsin, Madison | p42
Global Alumni Network

Mallinckrodt Institute of Radiology boasts the world’s largest network of radiology alumni, many of whom hold leadership positions in clinical care, research and teaching. Our unparalleled network creates a diverse path of career opportunities and professional connections that last a lifetime.
Fellowships

A Mallinckrodt Institute of Radiology fellowship is extraordinarily competitive, highly sought after and often filled in advance. In addition to the intensive training fellows receive, they teach residents and medical students, consult with clinical colleagues, and conduct conferences. Fellows also have the opportunity to collaborate with section faculty on research projects and attend subspecialty meetings. This and more explains why many of our own residents elect to stay for fellowships.

Abdominal Imaging
Body Magnetic Resonance Imaging
Breast Imaging
Cardiothoracic Imaging
Musculoskeletal Imaging and Interventions
Neuroradiology
Endovascular Surgical Neuroradiology
Nuclear Medicine
Pediatric Radiology
Abdominal Imaging

Abdominal fellows experience a broad array of common, uncommon and rare conditions in this high-volume practice. Rotations are primarily through the body CT, 3D CT, body MRI, ultrasound and procedure services. Limited time is spent on the GI/GU service and all fellows have an option to staff emergency radiology with an option to work in the emergency department. Fellows leave the program with extensive expertise in all modalities used to image the abdomen, as well as confidence using ultrasound and CT to guide percutaneous procedures.

Attendings are devoted to clinical care and training, working side-by-side in the reading rooms with fellows throughout the day. In addition, fellows play a role in the teaching and supervision of residents. About two-thirds of our fellows go into private practice and one-third go into academics.

Need to Know

- Five fellows per academic year are accepted into the program
- On call schedule is home call every fifth week for one week at a time
- A combination of on-service experience, conferences and didactic lectures provides the focus for learning
- Fellows primarily work at Barnes-Jewish Hospital and occasionally at Barnes-Jewish West County Hospital
- Research project is optional

Contact
Katrina Bridges
bridges237@wustl.edu
314.362.1053
Body Magnetic Resonance Imaging

This fellowship focuses on clinical training involving all aspects of body MRI, including abdominal and pelvic MRI, MR angiography, cardiac MRI, CT, and PET/MRI. We provide hands-on tutoring and mentoring for MRI examinations and protocoling, with a daily average of about 30 to 40 MRI cases and 10 to 20 3D CT cases. Fellows have the option to rotate on the following services: cardiac-MRI service, ultrasound, body CT, ER, ultrasound and CT-guided procedures. All services expose fellows to a wide range of body pathology.

In addition to diagnostic interpretation, our training emphasizes the instrumentation and basic physical principles of MRI as applied to clinical imaging. We have 10 clinical MRI scanners, two research MRI scanners, and one PET/MRI scanner. Most of our faculty is body-MRI trained, which means fellows graduate with extensive knowledge of body MRI protocols and running a body MRI service, as well as the ability to run/troubleshoot MRI scanners.

Need to Know

- Two fellows per academic year are accepted into the program
- On call schedule is home call one week out of every four with in-house coverage every Saturday or every fourth Sunday for read-out
- Research project is optional

Program Director  KATHRYN FOWLER, MD

Contact
Katrina Bridges
bridges237@wustl.edu
314.362.1053
Breast Imaging

Our breast imaging section performs more than 45,000 breast imaging studies per year. This includes 40 breast biopsies and 20 breast needle localizations each week, and a volume of tomosynthesis studies that increases yearly. Because we are a high-volume Breast Health Center with a high-risk cancer-screening program and fully accredited in all imaging models, fellows receive comprehensive training in breast imaging, film interpretation, and breast interventional procedures.

Radiology services are fully integrated with those of breast surgeons and other ancillary staff to provide comprehensive breast health care. Training primarily occurs in the reading rooms and clinics, where fellows work alongside all seven attending faculty. Several faculty hold key committee positions with the Society of Breast Imaging and American College of Radiology, as well as speak and teach at national meetings.

Need to Know

- Two fellows per academic year are accepted into the program
- On call schedule is after hours (by telephone) to prescribe MRI protocols and ultrasound for breast abscesses
- Research project is optional

Program Director  MICHELLE LEE, MD

Contact  Kathy Weber  kathy.weber@wustl.edu  314.454.7405
Mallinckrodt has one of the largest thoracic imaging and cardiac radiology services in the country, interpreting about 120,000 chest radiographs, 12,000 chest CTs, 20,000 total CTs (including abdomen and pelvis), 350 cardiac MRs, 300 cardiac CTs, and 250 lung biopsies every year. Fellows, who have the option of covering the emergency department, attend “boot camp” lectures/workshops and a cardiothoracic imaging conference series, where cardiology faculty, pulmonologists, cardiologists, and pulmonary pathologists provide lectures. In addition, our relationship with St. Louis Children’s Hospital means fellows gain a thorough understanding of the manifestations of cardiopulmonary disease from infancy to old age.

Throughout the year, fellows are responsible for presenting one to two radiology/pathology correlation conferences. In addition, they participate in the following conferences: interstitial lung disease, thoracic oncology, congenital heart disease, and the Stuart S. Sagel thoracic imaging case conference.

Need to Know

- Two fellows per academic year are accepted into the program
- On call schedule is two weeks of home call near the end of training
- Our chest teaching file has more than 5,000 proven cases
- Graduates almost evenly split between careers in academics and private practice
- Research project optional

Program Director  CYLEN JAVIDAN-NEJAD, MD

Contact
Connie Sarusal
sarusalc@wustl.edu
314.362.2927
Musculoskeletal Imaging and Interventions

Our busy clinical practice includes staffing at the main medical center, an outpatient orthopedic center with clinics and surgical suites, and community hospitals. Each fellow rotates through the different sites, gaining exposure to a large volume of radiographs, CT, MRI and ultrasound. Fellows perform image-guided procedures on average two days a week and MR arthrography on an almost daily basis. The program’s depth of diagnostic musculoskeletal imaging and procedures is exceptional and features a case mix that includes traumatic, rheumatologic, metabolic, sports, oncologic and spine imaging.

Mallinckrodt’s number and variety of interventional procedures is unique and includes vertebral augmentation, tumor ablation using radiofrequency ablation, cryoablation and microwave ablation, bone and soft-tissue biopsy, joint injection and aspiration. In addition, there are spine procedures including facet injection, medial branch block, and central epidural and transforaminal steroid injections.

Need to Know

- Five fellows per academic year are accepted into the program
- On call schedule is home call every third month for one week
- Fellows learn through daily case exposure, independent learning, lectures, and instructional hands-on procedural sessions
- Research project encouraged

Program Director  JON BAKER, MD

Contact
Linda Macker
mackerl@wustl.edu
314.362.2916
Neuroradiology

Thanks to a nationally ranked tertiary medical center, neuroscience institute, and relationship with St. Louis Children’s Hospital, fellows receive unparalleled training in neuroradiology. The one-year, ACGME-accredited program rigorously prepares them by providing high-level training in both adult and pediatric neuroimaging. Fellows read cases and perform procedures at a high volume, with 100% of cases reviewed by faculty who are known experts in their fields.

In addition to routine clinical imaging studies, fellows are exposed to a wide range of advanced MRI techniques including perfusion, functional MRI, spectroscopy, tractography, CSF flow and PET-MRI. Certain state-of-the-art techniques, such as resting-state functional imaging, were developed at Mallinckrodt and are only available through our facilities. The exceptionally busy neurointerventional service allows fellows to perform diagnostic catheter angiograms at a high volume and under the direction of three dedicated, radiology-trained neuro-interventionalists. Our program boasts a nationwide network of former trainees eager to assist in placement of our graduating fellows.

Need to Know

- Nine fellows per academic year are accepted into the program
- On call schedule is split evenly among fellows; weekday overnight call (one night at a time from home) and weekend call (daytime review followed by home call at completion of hospital duties)
- Our robust database of diagnosed and pathology-proved cases is easily searchable for review, study and research
- Research project optional

Program Director  
KATIE D. VO, MD

Contact  
Peggy Winkler  
winklerp@wustl.edu  
314.362.5949
Endovascular Surgical Neuroradiology

Fellows learn to diagnose and treat a wide range of conditions, including brain aneurysms, arteriovenous malformations, dural arteriovenous fistulas, extra- and intracranial atherosclerotic disease, and ischemic stroke. Our service is closely integrated with the departments of neurological surgery and neurology. More than 1,000 diagnostic angiographies and 300 interventional cases, including 150 aneurysm cases, are performed annually, and our stroke caseload increases every year.

Our one-year, ACGME-accredited fellowship requires a prerequisite diagnostic neuroradiology fellowship for candidates from diagnostic radiology programs. Applicants from neurosurgery and neurology require a prerequisite year of training in catheter angiography and vascular imaging. Supervised by three full-time attending senior staff whose expertise is internationally recognized in the field, fellows learn hands-on through a high-volume caseload in two biplane neuroangiographic suites with full flat panel and 3D capabilities.

Need to Know

- Two fellows per academic year are accepted into the program
- On call schedule is one week every four weeks of home call with callbacks as needed for urgent/emergent procedures
- Weekly didactic, stroke and vascular conferences, and monthly events include an endovascular acute stroke committee and a morbidity and mortality conference
- Research project encouraged and expected

Program Director  DEWITTE CROSS III, MD

Contact  Peggy Winkler  winklerp@wustl.edu  314.362.5949
Nuclear Medicine

Our ACGME-accredited program is designed to provide intensive clinical training in both adult and pediatric nuclear medicine. The primary goal of this fellowship is to develop superlative nuclear medicine physicians. In addition, the program attracts and trains medical graduates, with interests in research and education, who are motivated to pursue careers in academic nuclear medicine. Applicants with diagnostic radiology training are preferred; others with a strong research background will be considered.

Fellows gradually assume increased responsibility in the clinical service while working closely with an attending physician who reviews every case with them. Though diagnostic imaging is our emphasis, we provide extensive experience in radioiodine therapy of hyperthyroidism and additional experience in cancer therapy, primarily treatment of thyroid cancer. Therapeutic use of parenteral therapy (ZEVALIN®, samarium, Xofigo® and SIR-Spheres®) also is included. Special features of the training program include a nuclear cardiac imaging service, clinical PET/CT and PET/MRI facilities, and a pediatric service.

Need to Know

- Five fellows per academic year are accepted into the program
- On call schedule is home call weekly (Monday through Sunday) and is split evenly among the fellows throughout the year
- About 80% of our graduates choose a career in private practice, often in a community hospital; the remainder enter an academic/university-based practice or affiliate
- Research project encouraged

Program Director  HENRY ROYAL, MD

Contact
Barb Knipshild
knipshildb@wustl.edu
314.362.2809
Pediatric Radiology

Fellows in this ACGME-accredited program are exposed to a variety of classic and complex pediatric pathology. We perform more than 100,000 imaging studies annually, including about 12,000 ultrasound studies and 8,500 MRI exams. Faculty work with fellows on an individual basis, and interaction with pediatricians from other clinical departments in the reading rooms and in subspecialty conferences enriches the fellowship experience. Fellows are encouraged to make their own decisions before reading out cases with attending faculty. In addition, though they do not read out residents, fellows do oversee them when on call.

Many of our faculty are nationally and internationally renowned in pediatric radiology and hold leadership positions in professional radiological societies. All rotations occur at St. Louis Children’s Hospital (SLCH), which is a Level 1 trauma and referral center for the Midwest. In fact, some patients travel from abroad for specialty care at SLCH. We prepare fellows for both private practice and academic positions.

Need to Know

- Two fellows per academic year are accepted into the program
- On call schedule is from home one week per four-week rotation; Saturday call is in-house from 7:30 a.m. to 5:00 p.m., then from home until the following morning; on Sunday call, fellows come in to read out the ICU cases, then take calls from home until the following morning; call is always backing up a resident who is in-house
- Research project required

Contact
Tara Gallagher
t.gallagher@wustl.edu
314.454.6229

Program Director REBECCA HULETT, MD
ST. LOUIS CHILDREN’S HOSPITAL
The pediatric teaching hospital for WashU features nationally recognized programs for physician training and research.
Welcome to St. Louis

More than a city, St. Louis is a collection of unique neighborhoods that together create a diverse and enchanting tapestry known as the Gateway to the West. Each neighborhood boasts its own personality, which means you’ll find a variety of food, fun and experiences wherever you go. Throw in a welcoming Midwest vibe and an attractive cost of living, and you’ll see why nearly 3 million people are proud to call St. Louis home.

Central West End
Washington University’s School of Medicine (WUSM) campus is located in the CWE, which means uber-charming sidewalk cafés, boutiques, gastro pubs and more, are just a few steps away.

The Grove
Located right next door to WUSM, The Grove boasts a diverse array of bars, nightclubs, restaurants and shops that are known for setting trends instead of following them.

The Hill
You’ll find a traditional collection of authentic Italian bakeries, grocery stores, a gelateria, mom-and-pop trattorias, and a bustling neighborhood bocce court on The Hill.

Tower Grove Park
Dog-walking, bike-riding, stroller-pushing St. Louisan’s populate this beautiful Victorian-era park, which is surrounded by diverse and thriving neighborhoods that are home to everyone from hipsters and urban cyclists, to WashU scientists and veteran brewmasters.

Cherokee Street
Creativity and the entrepreneurial spirit are alive and well on Cherokee Street, as evidenced by blocks of independent specialty shops, design studios, bakeries and more.

Layfayette Square
A 30-acre oasis of greenery within an urban landscape in a neighborhood that caters to a hip, urban clientele in search of a one-of-a-kind culinary experience.

Maplewood
Look for an eclectic mix of trendy and traditional in Maplewood, including deliciously diverse cuisine, craft brewers, an historic bowling alley and a modern pinball lounge.

The Loop
Make your way to Delmar Boulevard and brace yourself. This eclectic main drag features multiple music venues, vintage clothing stores, a wide range of global cuisine and more.

Soulard
The city’s oldest neighborhood features red brick townhomes that house restaurants with charming courtyard dining and live music clubs. Soulard is also home to the oldest farmers’ market west of the Mississippi.

Clayton
Clayton, host to a variety of must-attend annual events, boasts a number of boutiques, galleries, hotels and restaurants known throughout the region.
Located adjacent to WUSM, Forest Park is twice as big as New York’s Central Park, boasting 1,300 lush acres and five major cultural institutions. Visitors can take in a spectacular vista while on a picnic, tucking into a good book or taking a paddleboat ride. For a more active itinerary, the 6.2-mile dual path provides ample opportunity for running and biking.

Forest Park Highlights

**St. Louis Art Museum** One of the nation’s leading comprehensive art museums, SLAM offers free admission and contains more than 30,000 art works dating from antiquity to the present.

**The Boathouse** Observe wildlife during a paddleboat ride through the lagoons or enjoy a drink and bite to eat on the patio while watching a beautiful sunset over Post-Dispatch Lake.

**Central Fields** At nearly 30 acres, Central Fields is one of the largest and most frequently used spaces in the park. Home to a variety of activities, from sports to concerts to festivals, the area is currently benefiting from a $5.8 million renovation.

**Highlands Golf and Tennis Center** The recently updated facility includes a nine-hole golf course, 30-stall driving range, full-service bar and restaurant, and 13 clay tennis courts.

**Missouri History Museum** Originally built as the first national monument to Thomas Jefferson, the always free museum explores the history of St. Louis from its founding in 1764 through present day.

**The Muny** The nation’s oldest and largest outdoor musical theatre features at least six Broadway-style productions every summer. About 1500 of the 11,000 seats are free on a first come first served basis.

**The Science Center** This interactive museum features an OMNIMAX® Theater, the James S. McDonnell Planetarium and more than 700 exhibits. And general admission is always free.

**Steinberg Skating Rink** Enjoy a hot chocolate at one of the largest outdoor ice skating rinks in the Midwest. Steinberg offers public skating every day it’s open, including holidays.

*For more info on the largest urban park in the U.S. visit forestparkforever.org.*
**Things to See and Do**

**City Museum** Created from reclaimed architectural and industrial objects, City Museum features a rooftop Ferris wheel, giant slinky, and working shoelace factory among its exhibits.

**Gateway Arch** No visit to St. Louis is complete without a ride to the top of this fabulous structure. At 630-ft high and 630-ft wide at its base, this landmark can be seen for miles from both sides of the Mississippi River.

**Grant’s Farm** The Busch family’s ancestral home now houses more than 100 species of animals, a petting zoo, and the famous Anheuser-Busch Clydesdales.

**The Magic House** Consistently rated one of the top family attractions in the U.S., this children’s museum boasts more than 55,000 sq. ft. of interactive exhibits.

**Missouri Botanical Garden** This world-renowned, 79-acre garden features a Japanese strolling garden, geodesic dome conservatory and sprawling, hands-on children’s garden.

**Urban Chestnut Brewing Company** UCBC is just one of several microbreweries on the St. Louis landscape. Beer aficionados can sip and sample at a number of area locales.

**Sports / Outdoors**

**Cardinals Baseball / Busch Stadium** If a day spent watching the 11-time World Champion Cardinals isn’t enough fun, be sure to include a stop by Ballpark Village, the sports-anchored entertainment district located right next door.

**Blues Hockey / Scottrade Center** Hockey season brings with it a medical phenomenon. Everywhere you look, St. Louisans are bleedin’ blue. Fans of the oldest NHL team never to have won a Stanley Cup will not be deterred.

**Katy Trail** The longest rails-to-trails conversion in the U.S., bikers and walkers enjoy the 240 miles of scenic landscape, much of which is on the Missouri River Bluffs.

**Lake of the Ozarks** Located just three hours from St. Louis and offering more than 1,000 miles of shoreline, the Ozarks is a mecca for boaters, hikers, sightseers and anyone looking for a scenic getaway.

**Music / Arts / Theatre**

**The Fabulous Fox** A spectacular refurbished movie theatre from the 1920s is now a classic performing arts center and special events venue.

**Peabody Opera House** Thanks to a $79 million renovation, this St. Louis institution provides a stunning backdrop to a wide and diverse array of entertainment and special events.

**St. Louis Black Repertory** The largest professional African-American theater company in the U.S. The Black Rep provides platforms for theater, dance and other creative expressions that heighten the social and cultural awareness of its audience.

**The Pageant** Designed to host a wide range of music performances and special events, the Pageant is a 2,000 plus-capacity concert nightclub with an up-close and personal vibe.

**National Blues Museum** The museum explores the blues genre as the foundation of all modern American music. Guests are educated in an entertaining environment that includes a state-of-the-art theater and artifact-driven exhibits.

**Citygarden** Open year round and within walking distance of the iconic Arch, Citygarden is a vibrant and serene blending of lush plantings and internationally renowned sculptures.

**Events**

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**For more on these and other exciting happenings in St. Louis visit:**

explorestlouis.com  riverfronttimes.com  saucemagazine.com  stlmag.com  alivemag.com  visitmo.com
Barnes-Jewish Hospital (BJH)
Number 11 on the list of “Best Hospitals” in the U.S.* and home to 15 specialties consistently ranked among the best nationally.

*U.S. News & World Report 2016-17
Perry J. Pickhardt, MD, is a professor of radiology and chief of gastrointestinal imaging at the University of Wisconsin School of Medicine and Public Health in Madison, Wisconsin. He began publishing widely during his residency at Mallinckrodt Institute of Radiology and remains a prolific researcher, particularly in the field of virtual colonoscopy.

“To experience this entire building devoted to radiology, the floor-by-floor organization of the different imaging modalities, the history that had been made there, and to be the sole focus of the interview process that day, I was simply awestruck.”
Name: Abby Mills, MD
Hometown: Indianapolis, IN

Favorite local spot:
Taste. Creative cocktails and small plates, cool vibe. Get the Subtle Hustle punch bowl.

Teachable moment:
The first time an attending did not come into the room with me for a central line placement. I surprised myself and finished the procedure without help. We have a lot of autonomy while maintaining safe supervision.

Favorite meal:
I Fratellini for an upscale meal with nice ambiance. Ted Drewes has delicious frozen custard.

Favorite outdoor activity:
The parks here are surprisingly nice. Everyone knows about Forest Park but also check out Castlewood State Park.

Biggest surprise:
I knew I would enjoy radiology, but I’m surprised by how good of a work-life balance we are able to have in residency.

Why MIR:
Large, well-respected program with down-to-earth faculty and residents; will prepare you well for either academic or private practice jobs; good procedural exposure for residents.
WASHINGTON UNIVERSITY
SCHOOL OF MEDICINE
Consistently listed among the
top ten medical schools in the
U.S. since rankings were first published in 1987.
Residency Program
Mallinckrodt Institute of Radiology
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mir.wustl.edu